

IANT **IT** MAGAZINETM

Spearheading IT Education

T H E I T U P D A T E



NASSCOM
MEMBER

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spending 2020 :
\$170 Billion By 2020

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BE with the Best

Grow with the Best

Make A New World

WITH IANT

-Mr. R.F. Kherani



FROM CMD'S DESK...

Welcome to 2016 -The Year of IT Education Revolution by IANT !

IANT strongly believes in the word-“Revolution”. IANT wants to revolutionize the way IT Education is imparted in our country.

We have already created a revolution by having a single minded focus on International Certifications. Our consistent efforts on students obtaining recognized International Certifications has reaped rich dividends, as this has made students better equipped and gives them an edge in the IT Job space. I am very proud to say that we have managed to carve out a niche in the International Certification segment, earning us accolades and appreciation across the IT Education spectrum.

Our Revolution continues ! Our First of its kind, Free of Cost “Digital Initiative” Training to empower the Youth of India against Cyber War has been introduced this year. We have launched our own portal www.iantfreetraining.com for this purpose and we have a vision to train 10 Crore youth by the Year 2020. Thru this program, we are also planning to penetrate to all the schools/colleges across India and impart this training to students right from 7th Std, so that they are “Cyber Ready” and understand the nuances of Cyber security at a very early age. It was our dream to offer International Certification for this program at affordable pricing, so as to cater to students from all sections of society and I am very pleased to inform you that we have managed to do the “Impossible” by offering this certification at the “World's lowest price”.

This year, we have also got affiliated with an exclusive IT Job Portal www.allitjob.com, which will create a synergy between Education & Placement for our students. This portal caters to a wide diaspora of IT Job seekers & IT Employers. This is a complete free of cost platform and we will leverage this portal in enriching the careers of the students.

In our quest to keep pace with Digital Times and revolutionize IT education experience, We have created our own – IANT App, giving unlimited “Anytime, Anywhere, Anyone” access on the go. This App will give the Users, info on the latest news/updates in Information Technology as well as updates on the IANT Courses & Certification offerings. This again is a Industry First initiative by IANT.

Our Partnerships with RedHat /EC Council/CompTIA/Cisco/Microsoft/Oracle continue to be strong. We are the No.1 Training Partner for RedHat in India, EC-Council-Best Academia Award Winner & One and Only CompTIA Platinum Partner in India. We are also an Oracle Workforce Development Partner and a Microsoft Gold Certified Partner. We, in IANT, are committed to give the best and the latest in IT Education to our students.

I believe 2016 is a very crucial year and we, in IANT, want to change the dynamics of IT Education in this country. As Mahatma Gandhiji famously quoted – “You must be the change you wish to see in the World”. IANT wants to bring in the change. My Team & Me are strongly committed to the same and assure you that IANT will be at the forefront of this change, this REVOLUTION!

I wholeheartedly look forward to welcome you in our IANT Family!!

Best Wishes Always!!

Regards,
R.F. Kherani
(Chairman & Managing Director)

IANT

Maintain The Trust of All

Who have made us today

The **No.1** IT

Training Institute

in **INDIA**

-Mrs. Bhakti Ojha



FROM DIRECTOR'S DESK...

Information Technology is the fastest growing Industry in the World .There is a huge requirement for Certified IT professionals globally. IT support , Apps Development, Digital Marketing and Cyber Security are the key areas, where we lack skilled Professionals. Globally Certified Professionals have a bright chance of getting jobs with Leading IT Cos.,as their skills are certified directly by Technology Providers.

Education Industry in India has evolved in recent years and students have developed a flair for Certification along with the course values. Engineering Colleges Institutions are focussing more on the global aspects of the Education being delivered. Vibrant technology in Vibrant India is creating the need for Customized Training workshops along with Traditional course module.

IANT, in recent years has developed a Training Infrastructure in India in line with the Global demands of IT industry. Quality delivered here has already won Appreciation from Technology Providers, Corporates, IT Recruiters Students. It has been our core endeavour to deliver as per Industry expectations . IANT has always been keen to adapt to changes in Technology and we have believed in offering the Latest in IT Education.

We have been able to offer Global Certifications at the World's Lowest Price and feel honoured and privileged to have set a benchmark in IT Training. Encouragement from IT Industry, Students, Education vendors have been the keys to our success & we are delighted to contribute towards Digital India.

I Thank YOU on behalf of IANT and Look Forward to your continued Patronage !

Regards,
Bhakti Ojha
(Director)

INTRODUCTION



IANT[®]
Institute of Advance Network Technology

IANT

The Gateway to Global Opportunities

IANT [Institute of Advance Network Technology] is an International IT Certification Company, visioned to train IT workforce with global values for India & Abroad. Excellence of 17 years in Advanced IT training [Corporate & Retail], International IT Certifications, IT Infra development and support, Recruitment solutions, has made IANT the No. 1 IT Training Company in India.

A Network of 110+ Quality Education Centres equipped with latest Infrastructure and a team of strong IT professionals at Nine Regional Offices in different states and territory in India, are all aimed to develop global IT professionals ready to serve IT industry. Original Courseware, International Curriculum, Corporate & Certified Trainers & Advance IT labs is the base of quality at IANT. The Trained professionals at IANT have successfully earned the trust of Employers and the number of International Certifications accumulated in their profile gives them an edge in the IT job Industry.



- INTERNATIONAL CERTIFICATIONS
- Opportunities Abroad for Indians
- Cyber Security in India
- Careers in IT

NASSCOM[®]
MEMBER

**: IANT :
The Gateway
to Global
Opportunities**



**: IANT :
Globally Recognized
No.1
IT Institute
in India**

To Be The Best, Get Trained by The Best.

1. CompTIA [Computing Technology Industry Association] issued letter to IANT declaring IANT as the No.1 IT training Institute in India.
2. CompTIA assigned IANT as its FIRST PLATINUM PARTNER in India. IANT is proud to be the First Organization in India to receive the award.
3. EC Council, the World's Leading Cyber Security Solutions and Certification company awarded IANT as its Biggest Academia Partner in India and is on a mutual project to create 10000+ Cyber Warriors in India every year.
4. Redbat, the undisputed Global Leader in Open-source Technology awarded IANT as its "Best Training partner in India" IANT has been receiving this award for the last four years.
5. IANT imparts Microsoft training as "Microsoft Gold Certified Partner"
6. Database Training at IANT is offered as "Oracle Workforce Development Partner" with Original kits and necessary Certifications.
7. IANT is the First Platinum partner of Star Certification- a leading Cyber Security & Engineering Certification of the World.

International IT curriculum at IANT is same like any other Institution. However the facilities that stand them out from the competition are as under :-

1. IANT students are offered International Certifications at highly subsidized cost, which is not possible in any other Institute in India.
2. IANT earns the rapport of No.1 IT Institution and is the key organization to train IT & Cyber Security needs of India. Forthcoming IT Security projects in India eye IANT for the need of manpower.
3. Students enjoy Original Courseware, Discount Vouchers, Access code to Global Tools & Course materials exclusively.
4. Employable skills are integrated as Essential Training module along with the Core Curriculum.
5. Technical knowhow and range of Certifications earned in the training make IANTians stand ahead of Competition.

Industry Overview

India will remain the world's fastest growing information technology (IT) market in 2016 as it is expected to spend more than \$72 billion on IT services, products and hardware, up from 7.2% from the current year, according to research.

The growth will come on the back of the digitization wave catching up with Indian companies and the growing number of connected devices that form the Internet of Things (IoT).

India's IT market is projected to grow annually at a rate of 4.95% between 2015 and 2019—the fastest globally—to touch \$85.3 billion by the end of 2019.

The robust growth will help India overtake Australia to become the second largest IT market in the Asia-Pacific by 2019, behind China, said Aman Munglani.

Devices, which include mobile phones, personal computers and tablets, will account for almost 33% of the overall IT spend in India, growing at 9.3% in 2016. While data centre systems will grow 3.9% in 2016, IT services, which accounts for 18.1% of the overall IT spend, will be the fastest growing segment in 2016 with 13.8% growth year on year, predicts Gartner.

Software, which accounts for nearly 7% of IT revenue in India, will grow 12.7%. Communication services will continue to

***Indian IT Companies Have
Globally Established :***
Fastest Growing IT Markets In
The Asia-pacific Region



account for the largest share of IT spend: 39.2% of revenue in 2016. However, this will also be the slowest growing segment, with a 2.1% rise in revenue in 2016.

"In five years, 1 million new devices will come online every hour. These interconnections are creating billions of new relationships. These relationships are not driven solely by data, but algorithms," said Partha Iyengar, distinguished analyst and head of research at Gartner India.

An algorithm is a set of defined steps to achieve a specific outcome. "Data is inherently dumb. It doesn't actually do anything unless you know how to use it; how to act on it," said Iyengar. "Algorithms are where the real value lies. Algorithms define action. Dynamic algorithms are the core of new customer interactions."

Pervasive use of algorithms to make sense of humongous data out there is what is giving rise to algorithmic economy. "The algorithmic economy will power the next great leap in machine-to-machine evolution in the Internet of Things," said Iyengar. "Products and services will be defined by the sophistication of their algorithms and services. Organizations will be valued, not just on their big data, but the algorithms that turn that data into actions, and ultimately impact customers."



However, the same connected ecosystem is going to prove challenging when it comes to security and risks. "Security and risk rise exponentially as you exploit what we call economics of connection, but if done properly can build entirely new economy based on digital."

While hackers can't be controlled, infrastructure use more automation, more outsourcing and more network-based algorithms, said Harris. The average malware lies dormant, unnoticed for more than seven months before it is activated or detected. IT leaders must get better at sensing these threats.

Industry Cyber Security

The Cyber Security industry has been a growth area within the technology sector in terms of both investment and importance, yet somehow has managed to stay under the radar. It is difficult to say whether this is because many of these companies operate in the background or if the technical jargon the industry uses seems foreign to most. However, the growth and interconnectivity of the internet and electronics have made this industry essential to most people on the planet. Although consumers and companies alike have found this interconnectivity to be beneficial to everyday life, the benefits are far from risk-free. In the growing battle to protect individuals and entities from those with malicious intent, the winners of the future may be those that best develop these cyber security technologies and solutions.

*Global Cyber Security
spending 2020 :
\$170 Billion By 2020*

Despite being an industry that had historically received little press, significant incidents over the past few years have made ignoring the importance of the Cyber Security industry impossible. Cyber attacks in 2014 have claimed many high profile victims to which the full extent of the damage may not be known for many

years to come. Some victims this year have included: Target, JP Morgan, Home Depot, the White House, Neiman Marcus, Yahoo, AT&T, eBay, Apple, P.F. Chang's, UPS, Google, and Dairy Queen. In many cases, it is not just the company that suffers losses or damages but their clients can also fall victim. These vulnerabilities have forced both corporations and government entities to take a serious look at their vulnerabilities, which has led to increased spending on cyber security infrastructure (hardware and software) and services.

Cyber attacks costing businesses \$400 billion to \$500 billion + a year

- The British insurance company Lloyd's estimates that cyber attacks cost businesses as much as \$400 billion a year, which includes direct damage plus post-attack disruption to the normal course of business. Some vendor and media forecasts put the cybercrime figure as high as \$500 billion and more.

- According to the "World Economic Forum (WEF) Global Risks 2015 Report", most cybercrime incidents go unreported, and few companies come forward with information on their losses. That is not surprising given the risk to an organization's reputation and the prospect of legal action against those that own up to cybercrime.

- The World Economic Forum (WEF) says a significant portion of cybercrime goes undetected, particularly industrial espionage where access to confidential documents and data is difficult to spot.

- TechSci Research says the banking and financial services sector has been the prime target of cyber criminals over the last five years, followed by IT & telecom, defense, and the oil and gas sector.

- Cybersecurity insurance is one of the fastest growing sectors in the insurance market, according to the PwC Global State of Information Security Survey 2016. A recent PwC report forecasts that the global cyberinsurance market will reach \$7.5 billion in annual sales by 2020, up from \$2.5 billion this year.

- A recent study published by the Atlantic Council and the Zurich Insurance group estimates that cyberattacks could cost up to \$90 trillion by 2030 if cybersecurity fails to advance at a rapid pace.

Who's HOT in cybersecurity?

"Given the ongoing, evolutionary nature of cyber-attacks, coupled with the relatively low share of total IT spend security accounts for, we believe industry growth rates will remain stronger than industry forecasts" states Columbia Threadneedle Investments. We expect 10-15 percent growth over the next 3-5 years versus the 8-10 percent forecasted by industry analysts like Gartner. This creates immense opportunities for innovative cybersecurity companies as well as potentially outsized investment returns for those capitalizing on the theme.

Turnaround and transformation in cybersecurity

Key findings

91%

follow a risk-based cybersecurity framework

69%

use cloud-based cybersecurity services

In today's global, digital world, data rule. Safeguarding intellectual property, financial information, and your company's reputation is a crucial part of business strategy. Yet with the number of threats and the sophistication of attacks increasing, it's a formidable challenge. PwC's US Security Leader Gary Loveland and Security Principal Mark Lobel reveal how company leaders can protect—and strengthen—the business with the right approach to information security.

But then it's often back to the more pressing issues of the day, and the state of your company's information security recedes to the background. You won't likely give it another thought—until there's an incident. Then it's damage-control mode, as the company deals with stolen customer data, disclosure of confidential financial information, a disabled Web storefront, or worse.

This reactive approach is all too common, even though the question is not if a company will suffer an incident but when. In the annual PwC, CIO, and CSO survey of more than 9,600 global executives, 41 percent of US respondents had experienced one or more security incidents during the past year.¹ And that number is rising. Respondents reported financial losses, intellectual property theft, reputational damage, fraud, and legal exposure, among other effects.

59%

leverage Big Data to improve cybersecurity

65%

collaborate with others to improve cybersecurity

54%

have a CISO in charge of the information security program

Businesses are also embracing a more collaborative approach to cybersecurity, one in which intelligence on threats and response techniques is shared with external partners. Internally, organisations are rethinking the roles of key executives and the Board of Directors to help create more resilient and proactive security capabilities.



'Digital India'



Role of Information and Communication Technology in 'Digital India'

The Digital India program aims to transform the country into a digitally empowered society and knowledge economy. With this initiative, the Government aims to empower citizens with the power of internet. It will create a digital interface to provide a number of e-governance services including health care, education and banking. This will bring in transparency in the system and enable inclusive growth.

"According to government website electronic transaction aggregation and analysis layer (eTaal), 3.53 billion transactions took place in 2014, which almost doubled in 2015 to 6.95 billion...this shows Indians' drive for technology," Prasad said while addressing i-bharat conference organised by Ficci here.

eTaal is a portal under Communications and IT Ministry which disseminates e-transaction statistics of national and state level e-governance projects, including mission mode projects.

Nine pillars of Digital India

The Government has developed a framework of nine pillars for the Digital India program, detailing the targets, estimated timelines and costs associated with end-goals. These are expected to facilitate the government's engagement with the public, enable provision of e-services on demand, allow wider access to internet, mobile connectivity, banking infrastructure and ensure overall availability of key digital resources to all citizens.

Technology will be central to the realisation of the "Digital Bharat" dream. The program is expected to cost approximately INR1,130 billion. Timely implementation of schemes and adequate funding are essential.



This pillar focuses on providing training to the youth in the skills required for availing employment opportunities in the IT/ITES sector. There are eight components with specific scope of activities under this pillar:

- 1. IT Trainings to people in smaller towns and villages***
- 2. The target of this component is to train one crore students from smaller towns & villages for IT sector jobs over 5 years. DeitY is the nodal department for this scheme.***
- 3. IT/ITES in Northeastern States***
- 4. This component focuses on setting up BPOs in every north-eastern state to facilitate ICT enabled growth in these states. DeitY is the nodal department for this scheme.***
- 5. Training Service Delivery Agents***
- 6. The focus is on training three lakh service delivery agents as part of skill development to run viable businesses delivering IT services. DeitY is the nodal department for this scheme.***
- 7. Training Rural Workforce on Telecom and Telecom related services***
- 8. This component focuses on training of five lakh rural workforce the Telecom Service Providers (TSPs) to cater to their own needs. Department of Telecommunications (DoT) is the nodal department for this scheme.***



Role Of Information Technology

- USD 146 Billion - expected 2015 revenues.
- USD 200 Billion in savings for companies in the last five years.
- 640 offshore development centres for 78 countries.
- USD 300 Billion industry by 2020.
- The IT-BPM sector constitutes 9.5% of the country's GDP and contributes significantly to public welfare.
- India's IT industry amounts to 55% of the global market, largely due to exports.
- 60% of firms use India for testing services.
- Rapidly growing urban infrastructure has fostered several IT centres in the country.
- The Indian IT industry has saved clients USD 200 Billion in the past five years.
- IT-BPM revenues are expected to reach USD 146 Billion in 2015.
- Exports from the IT-BPM industry are expected to reach USD 98.5 Billion in 2015.
- IT Services exports are USD 55 Billion.
- The BPM industry exports are USD 20 Billion.
- The hardware industry exports are USD 0.4 Billion.
- The IT industry has more than 15,000 firms; of which 1000+ are large firms.
- The IT-BPM industry is the largest private sector employer - delivering 3.5 Million jobs.

Information Technology In *“Make in India”*

“Make in India is not a slogan but a mission to be accomplished with a single-minded commitment.” *Nirmala Sitharaman, Minister of State for Commerce and Industry.*

Addressing a gathering of top global CEOs at the recently held conference in New Delhi on 'Make in India', the Prime Minister stated that "investors should not look at India merely as a market, but instead see it as an opportunity. As a nation, we need to focus on four areas- rules and regulations, infrastructure, policies and skill training. India can become a manufacturing hub. India embarks on a landmark mission that coincides with our triumph in outer space". Industrialists from Indian and abroad who participated, broadly supported this view.

India has the unique combination of democracy, demographic dividend and demand. The new government is taking initiatives for skill development to ensure that skilled workforce is available for manufacturing. The " Digital India Mission" would ensure that government processes remain in tune with corporate processes. A development and growth oriented environment is being created. India has to increase manufacturing for creating opportunities of employment. Make in India is the clarion call to the world to come here and invest in manufacturing. Policy measures are being taken to make it easy for investors - both Indian and foreign to do business in India.

Sector Policy :



The setting up of IT services, BPM, software product companies

Fast-growing IT sectors within domain knowledge cloud-based services

IT Services & fast-growing sectors IT consulting, software testing

IT within which the fastest growing sectors are - telecom & semiconductors



Let the Students Learn IT Fundamentals & Cyber Security @ School

Primary and Secondary Education System in India is showing great signs of improvement. This improvement is not just limited to private sector, but it has also shown the foot prints of change and development in semi-government and government schools as well.

We are witness to the usage of various kinds of technology in our day to day education system. Now there are digital labs available in schools. Student learning has become much easier than

before. Complex subjects like Mathematics, Biology, Chemistry etc. have become easier to understand. Technology has become a part of our daily lives. Internet, Social Media, Chat Apps, Shopping Apps, Online Banking etc have ensured, we get everything on our fingertips. Easy availability and affordable pricing of Smart phones, I pads, Laptops etc. have ensured that today every person uses these gadgets for their daily use. We find majority of the young generation engaging with social media. The Penetration of these gadgets has been so deep that today even school going children are exposed to them at a very early age.

Technology brings in huge benefits and there is no harm in using them to one's advantage. But it is equally important that the child is taught to use this Technology in a SECURED way

Many of us do not know the security measures for using these gadgets and hence we come across the terms / problems like password stealing, virus attack, wrong calling, Trojan, System Corruptions, Data-swapping etc. With the increase in usage, the challenges to securely use these gadgets will also increase.

CAN OUR STUDENTS BECOME A SECURE COMPUTER USER?

Yes They Can !! Students can get the training on Cyber security from their schools itself. IANT has initiated a mission to train the Youth of India on Cyber security. This is a 8-14 Hour Training Program. Training can be given at school level as per the time schedule management with school. It can be delivered in one time session, daily sessions, weekly session, weekend session etc. Students will learn fundamentals of security, steps to secure their operating systems, Data Encryption, Data backup, Securing Network Connections,

Securing Mobile Devices, Secured use of Social Networking sites etc.

This is a free of cost training program, which can be availed by students from 7th standard onwards. After completion of this course, Student will receive a Participation certificate and also have a option to appear for the International Certification exam at a nominal cost.

We are launching this program in schools thru the T3 model (Train the Trainer Model). The Teachers of the respective schools will be given Training on "Secure User" program by our Certified Faculty. The Training will be delivered to them and the Teachers will get a Participation Certificate and an International Certificate on clearing the International Examination.

**Let us Make India
a truly "DIGITAL INDIA"
"SURAKSHIT HUM
SURAKSHIT BHARAT"**

**FREE TRAINING PROGRAM ON
CYBER SECURE USER
FOR FACULTIES & STUDENTS**

Register : www.iantfreetraining.com



As of 2012, India has Approx. 152 Central universities, 316 State universities, and 191 Private universities. There are Approx. 33,623 colleges, including 1,800 exclusive women's colleges, functioning under these universities and and 12,748 Institutions offering Diploma Courses.

In Today's Competitive world, College Education has become mandatory. Students can choose from a wide stream of degrees - Diploma, ITI, BSc, BCA, BTech, BE etc. However, It is also important for students to broaden their skill base by going for additional courses and certifications to enhance their job prospects in a highly competitive job environment.

Technology brings in huge benefits and there is no harm in using them to one's advantage. But it is equally important that every student is taught to use this Technology in a SECURED way

We believe that the Students should get Training on Important IT Certifications and Cyber security with their regular curriculum, from their colleges itself.

IANT brings to-college students, their first opportunity to avail a International Course in a very simplified manner. This International Course is called the "Secure User" program. This is a FREE OF COST program and offers training on using Cyber space securely. This is a 8-14 Hour Training Program, which we plan to teach in Colleges. It can be delivered in one time session, daily

Let the Students Learn IT Fundamentals & Cyber Security @ College

sessions, weekly session, weekend session etc. Students will learn Fundamentals of security, Steps to secure their operating systems, Data Encryption, Data backup, Securing Network Connections, Securing Mobile Devices, Secured use of Social Networking sites etc.

Moreover, IANT also gives a great opportunity to Technical Colleges, Universities & Institutions for signing an Academia Agreement with IANT and get affiliations with IANT. IANT is having affiliations with International Companies like CompTIA, Oracle, Redhat, Star Certification, EC-Council etc. Due to the strong relations with



all these international vendors, IANT is able to offer the best of IT Education as well as International Certifications at World's lowest price.

Student should get training in Important IT subjects like C, C++, Java, Oracle, .net, VB, Linux, Android, PHP, Mobility, Cyber security, Software Testing etc during their semester curriculums itself. Students usually have these courses in their curriculum, but the course contents are not up-to-date and as per the industry requirements. If these courses are not part of the regular curriculum, then they can always learn one of the latest courses, in each semester. They should also prepare and clear the International Certification Exams in the span of their Bachelors or Masters program, so that they have the advantage of these certifications to go with their college degrees, which will help them in their job placements.

Deemed and Private Universities can also approach IANT for designing their IT course curriculum. IANT can prepare a customized course curriculum to match the industry needs.

Students are welcome to approach IANT Technology Pvt. Ltd. (IT services providing company) for their

projects and training during their Diploma, Degree, Masters program.

Graduate and Postgraduate students can apply for IT jobs on www.allitjob.com and kickstart their career.

We also insist all the faculties to get trained and get Global certifications, so that they are aligned with the current IT scenario.

For more details, please visit our website www.iantindia.com

To Avail FREE TRAINING PROGRAM ON CYBER SECURE USER, Faculty and Students can register on www.iantfreetraining.com

**FREE TRAINING PROGRAM ON
CYBER SECURE USER
FOR FACULTIES & STUDENTS**

**Register:
www.iantfreetraining.com**

Why Employers Look for IT Certifications ?



There are more than half a million IT job openings in the US alone.

Ever wonder what employers are looking for as they read through hundreds of resumes?



spoke with over 400 companies to get the inside scoop on why employers look for IT certifications when hiring for open positions.

91% of employers believe IT certifications play a key role in the hiring process and that IT certifications are a reliable predictor of a successful employee.

Here are 5 reasons why:



1. Certifications help employers fill open positions.



2. Most companies have IT staff that hold certifications.



3. Certified IT pros make great employees.



4. IT certifications are growing in importance.



5. Training alone is not enough.



Certifications Help Employers Fill Open Positions

93% of employers said finding the right IT pro to fill job opening is a major challenge.

Certifications help prove you have the knowledge and skills needed to get the job done...

93% ...and since 93% of HR professionals say they value IT certifications, this type of credential will really stand out to your future employer.

92% 92% of HR professionals have a certification in their own field. This proves the person looking at your resume sees certification as an important credential.

- **Certifications make it easier to help find the right IT pro.** By including IT certifications as a requirement in job listings, employers reduce the number of unqualified resumes they receive.



- **Certifications make a great first impression.**

Employers overwhelmingly agree that certified IT pros make the ideal job candidate.

95% agree that IT certifications provide a baseline set of knowledge for certain IT positions.

92% believe IT certifications help to ensure credibility of IT employees.

92% said IT certified individuals receive higher starting salaries than those without IT certifications.


91% think IT certifications save time and resources in evaluating a potential IT job candidate.


90% said IT certifications enable IT employees to learn faster once starting a job.





Most Companies Have IT Staff That Hold Certifications


Research shows certified employees are:

 More confident.

 More knowledgeable.

 Reach job proficiency quicker.

 Are more reliable.

 Perform at a higher level.

"Experience has shown that employees hired with certifications work smarter and stay at their position longer."



- Over half of organizations already have certified IT professionals on staff.



Certified IT Pros Make Great Employees

Employers agree that certified employees perform better and earn more recognition as compared to non-certified staff. From the perspective of an employer:

90% agree IT-certified individuals are more likely to be promoted than those without IT certifications.

89% think IT-certified individuals tend to perform better than non-IT-certified individuals in similar job roles.

89% believe certified employees are more likely to stay with their organization than non-certified IT staff.

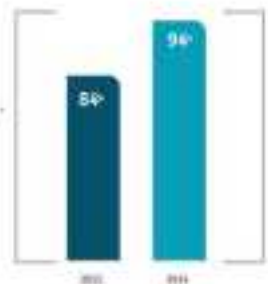
88% say that IT-certified employees are rewarded (bonus and pay increase) for obtaining IT certifications.



IT Certifications Are Growing In Importance

Employers increasingly recognize the importance of IT certifications. 94% of Hr managers expect IT certification to grow in importance over the next two years as compared to only 84% two years ago.

"Certification is a good baseline validation of what was learned that can be looked at against employee's performance post certification."



Training Alone Is Not Enough

Employers agree that you need a certification to validate your skills. 88% of employers believe it's important to test after training to confirm knowledge gains.

98% cite at least one specific benefit of certification testing rather than training by itself, such as:

- Better validation of knowledge learned / skills.
- Increased value / credibility of the training.
- Increased / improved knowledge.
- Demonstration of abilities.
- Skills and knowledge retained for a longer period of time.

97% of employers value certification enough to provide support for IT employees obtaining IT certification.



"Offering training and certification allows us to demonstrate commitment to our staff. We get much more out of the money we spend in those areas than we would if we simply passed that money along in salary increases."

-BAYCREST CENTRE FOR GERIATRIC CARE

Types of support employers provide to IT staff pursuing IT certification

37% provide training at work.

36% pay for all certification and training expenses.

34% offer paid time off for taking the certification exam.

31% offer paid time off for studying/training.

Expect success with IT certifications.

With the number of open IT positions expected to increase by 17% by 2022, it's inevitable that IT certifications will continue to play a significant role in the hiring process.



"Working in the IT industry, you need to get yourself certified."

-Linus Charles, Managing Director, CNSS

- Getting yourself certified is the best way to future proof your IT career.

Wondering where to start?

IANT is with you at every step.





John McGlinchey
Senior Vice President of
CompTIA

"CHANGE IS THE ONLY CONSTANT".... This modern day adage is proven most aptly if someone studies the development of the Information and Communication Technology landscape over the last one decades. It is observed that technology prevalent today becomes obsolete at a rate that is much faster than what we predict. Rapid strides in research and the demands of consumers are forcing IT organizations to constantly rethink what could possibly be the next innovation to make human life easier. This has led to new products and services being churned out by the industry on an extremely fast pace. Devices are smaller and smaller, but their computing power is growing without bounds. More and more we see that services are moving towards areas where we can consume them with much more ease and at a faster rate.

This has led to a challenge in the industry related to the speed with which skills and competencies should be developed among students and career seekers so that they can keep pace with the industry's requirement for "zero day deployment". Organizations prefer to employ workers who can start performing with limited induction training and handholding so that the turnaround time to provide services is minimized.

In this changing world it is critical for students to invest in proper training and industry relevant certifications so that their skills are constantly updated and matches with the industry demand.

Trends in Global IT Industry – Where are we heading?

Information Technology (IT) can be defined as the utilization of computing via hardware, software, services and infrastructure to create, store, exchange and leverage information in its various forms to accomplish several objectives.

	HARDWARE: computers, servers, storage, mobile devices, printers, network equipment etc.
	SOFTWARE: applications for productivity, business, networks, systems, security; mobile apps
	SERVICES: deployment, integration, custom development, break/fix, managed services
	INFRASTRUCTURE: Internet backbone, telecommunications networks, cloud data centers
	INFORMATION: data, documents, voice, video, images, social streams
	DIGITAL BUSINESS: commerce, communication, collaboration, automation, governance

According to the research consultancy firm IDC, the revenue generated from the global information technology (IT), which covers hardware, software, IT services, and telecommunications, exceeded \$3.7 trillion in 2015 and is on track to reach \$3.8 trillion in 2016. The North American market represents about 31% of the worldwide total, which is slightly over \$1 trillion. There is a gradual shift in market proportions due to rapid shifts in Asian, Latin, American and African markets. The share of Global IT revenues in the Asian markets alone has now reached to 29%.

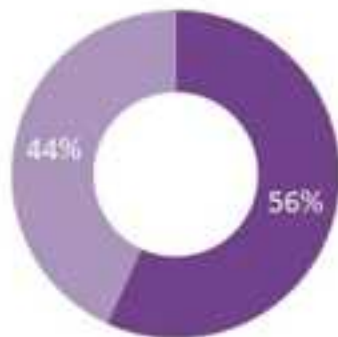
Key Segments of the Global IT Market

The allocation of spending tends vary from country to country. However, we can summarize the various elements of the Global IT markets into the following categories:

- IT Hardware
 - Servers
 - Personal computers
 - Storage
 - Smart Phones
 - Tablets
 - Network equipment
 - Printers & other peripherals
- IT Services
 - Planning & Implementation
 - Support services
 - Operations management
 - Training
- Software
 - Applications
 - System infrastructure software
- Telecom Services
 - Fixed voice
 - Fixed data
 - Wireless voice
 - Wireless data



Organizations & the Skills Gap



- Close to/Exactly where we want to be with IT skills
- Seeking improvement

The Skills Gap reality – It Bites!

The rapid strides IT services and revenue has have a direct implications on the skills gap scenario. As an international industry trade body, CompTIA receives virtually universal feedback from organizations that their workforce is not able to keep pace with the changing IT landscape. This has led to a widening skill gap, which implies that there is a mismatch between the employee skills that the organization desires and the existing skills that the employees have.

This effects the organization's overall performance in terms of staff productivity, customer service and engagement, security breaches, slackness in innovation and new product development and speed to reach market with products and services.

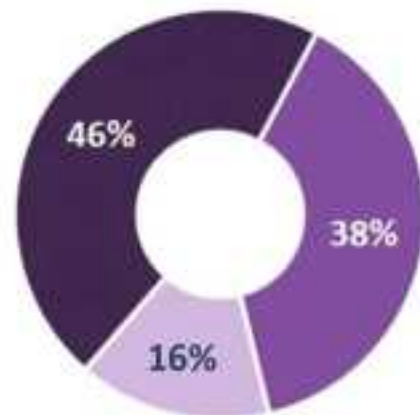
The IT Powerhouse of World – What does India Feel?

According to various research reports, the Indian IT sector is likely to create around 2.7 Lacs jobs in E-Commerce which rely heavily on Information Technology. However, interestingly our research offers up some challenging statistics on how the Indian IT industry feels with respect to the skill of manpower that they plan to hire. It is a well-known fact that most Engineering Graduates coming out of the 7000+ engineering colleges are “unemployable” as per the industry. This is reflected by the fact that 84% of Indian IT businesses are concerned about finding enough workers with the right mix of skills. 75% of Indian executives indicate at least some degree of gaps in IT skills at their business exists. For 38%, the reported skills gaps are small, while for 36% the gaps are more extensive.

The top priorities for Indian businesses lie in the areas of

1. IT security
2. Disaster recovery/business continuity
3. Data storage/back-up
4. Web/online presence
5. Mobility

84% NET Concerned



- Very concerned
- Concerned
- Not that concerned

Where are the Jobs?

Most Indian business feel that skilled manpower is most required in the Infrastructure side of the IT business. This is also substantiated by the fact that there is a sudden growth in the outsourcing contracts that expects Infrastructure Management Services – or IMS – from the Indian IT companies. Therefore there is a huge requirement for skilled workforce in the field of administration, storage technologies, information and cloud computing,



“The Key to success is Training and International Certification for Students”

With shrinking margins and cost pressures, gone are the days when Indian IT companies had the liberty to hire fresh graduates and put them through internal incubation periods for months, train them on the skills that the organization requires before they are “billable”. In today’s competitive world, most organizations are looking for “Zero Day Deployment.” They want employees to perform on day one of their joining, which implies that these new staff members should carry a strong baseline skill set that they need to acquire prior to joining the industry. In many cases organizations work collaboratively with training companies to design a model of “hire-train-certify-join”. This collaboration paves the way for creating a pool of trained and industry certified students who can acquire the industry relevant training and certification prior to joining the company, leading to reductions in the cost and time of internal training.

It has therefore become a standard industry trend to place more value on internationally recognized certifications while they are looking for fresh talent. We have observed that people who are certified have not only received preference from employers over “non-certified” candidates, but they can actually command a higher remuneration and in most cases become premium in the job market.

We have observed that the technology value of certified candidates are highest in some key technology areas in consistent to the priorities of Indian IT business.

1. Network administration
2. IT support / Help desk
3. Cloud computing
4. Servers, storage or vitalization
5. Cybersecurity/ Information security

It is also observed that businesses today see a much higher value in certification than that in the past. In fact today, most businesses prefer candidates carrying vendor technology neutral certifications more than product specific certifications. This is primarily because of the fact that IT today is extremely pervasive. A data center will not be limited to one company’s specific products. Rather, it is an amalgamation of products from multiple technology companies surrounded by cloud. In this situation, organizations favour having a workforce with generic or multi-disciplinary skills so that they are more adept to handle complex multi-technology installations more effectively.

Most Indian Businesses Have a Formal or Informal Policy Covering the Use of IT Certifications at Their Firm



- Formal policy
- Informal policy
- No policy / don't know



The Messiahs – CompTIA and IANT

With the objective of providing the best solution to the problems mentioned above, IANT teamed up with CompTIA as their PLATINUM TRAINING DELIVERY partners in India. The objective was simple – To provide best in class training and certification to the student community in order to increase their competence and thereby the chances to win the best employment.

Over the past two years CompTIA and IANT have worked hand in hand to provide World class Training and International Certifications to Thousands of students, which has led these students to get the job of their dreams and improve their life. It has also given an opportunity for IT organizations to employ the brightest and best workforce powered by CompTIA's leading Vendor Technology Neutral Certification programs.



"CompTIA congratulates the entire IANT team to carry forward our mission of providing certified candidates for the Industry's benefit. IANT employs the best of trainers to provide world class training to students, who are new to the world of Information Technology. I have had the opportunity to personally visit their infrastructure and facility and needless to say that I found them to be at par with the best training facilities in other parts of the world. We look forward to continue our engagement with IANT in 2016 and beyond with the ultimate objective of helping students get the career of their choice"



Mr. Denis Kwok

Vice President, CompTIA

During his inaugural speech at the "Make In India week" celebrations in Mumbai on February 13th 2016, Indian Prime Minister Mr. Narendra Modi said, "I Want to make India a global manufacturing hub". As we all know, that over the past more than one year, Indian Government has worked tirelessly towards refining India's strategy with the objective of creating India as a preferred destination for organizations across the globe to set up their manufacturing hub. This is supported by other mission critical drives such as "Digital India" and "Skill India" which are personally monitored by the Prime Minister on their progress. For the success of the Make in India drive, one of the key aspects will always remain skill development of the workforce, especially on Information and Technology since most of these industries cannot do without a sound implementation of IT. While the Government is doing an excellent job in creating awareness on skill development, the industry community and training organizations have to do their bit to ensure that everyone falls into this larger ecosystem of providing the most suitable candidates for the industry to hire.

With this objective, CompTIA partnered with IANT Educom Pvt Ltd. (Institute of Advance Network Technology), a leading training organization with more than 100 centers of education spread across almost all the states of India. IANT is certified by CompTIA (The Computing Technology Industry Association) as their most esteemed PLATINUM TRAINING DELIVERY partner in India. Under this partnership IANT is authorized by us to deliver high quality training and industry relevant certifications to their students at a subsidized cost. Over the past more than two years, IANT has embedded two of CompTIA's vendor technology neutral certifications – CompTIA Network+ and CompTIA IT Fundamentals certification and training within their course curriculum. During the first phase of this partnership, more than 10,000 students from IANT has been awarded certifications from CompTIA.

The result of this initiative has led students from India's farfetched areas to access the best international credentials. These students have not only acquired the industry relevant skills and knowledge on the latest Information Technology domains, but also received attractive job opportunities with leading organizations in India at a premium pay package. It has been observed that these candidates are more confident in facing interviews as well as get preference compared to the students who have applied for the same position and are not trained and certified. Along with IANT we have been engaged in also speaking with numerous students and academic institutions to make them aware of the benefits of training and certification.

As the World's largest vendor technology neutral certification body with more than 2 Million CompTIA certified professionals globally, we are extremely confident on the training delivery capabilities, infrastructure and technical knowledge of trainers employed by IANT. In fact most of the IANT trainers providing CompTIA training are already certified by CompTIA to deliver these classes.

Abraham Lincoln said, "The Best Way to Predict Future is to Create it". As this partnership enters the next phase of relationship, both CompTIA and IANT feel that it is necessary to create skilled workforce on some of the niche technologies that is absolutely mandatory for better employment opportunities for a fresh graduate in today's world. The industry is now moving heavily on the technologies of Cloud Computing and convergence where most of IT implementation happens on cloud and mobility. With this trend, Information Security is also gaining huge importance. While it is vital to continue the existing programs that we implement with IANT so that the student is well versed with the fundamental knowledge and skills; it is also imperative that we offer students certifications and training on new technologies such as Cloud Computing. With this in mind, we along with IANT are working on the plan to implement new courses on Cloud Computing and Security among the student community in 2016 and beyond.

CompTIA firmly believes that it is critical for the workforce to invest in education and training so that they are able to not only able find the best jobs and create a better life for themselves and their families, but also help build a better and economically stronger India. I am sure that this partnership between CompTIA and IANT will usher this new dimension among thousands of students in every corner of the country.



Mr. Pradipto Chakrabarty
Regional Director, CompTIA India

Dear Students and Parents,

Greetings from CompTIA - the World's largest IT certification organization! We welcome you to the World of IT, the most dynamic and exciting industry segment. As you might be aware, this industry segment is by far the biggest employer of fresh graduates. Over the past many years, IT has provided attractive employment opportunities to the youth of the country. When I travel to large IT organizations across the country it is heartening to see scores of youngsters enjoying the perks of working for these companies and creating a better life for themselves as well as their families.

I was in Chicago, United States of America (USA) a couple of months back and got introduced to a young IT professional from a small town in India. He studied in India till graduation level and then enrolled in a training organization like IANT. He took rigorous training and appeared for few

industry accredited global certifications. After this he got employed with a large IT company in Bangalore. Very quickly he was able to prove his capabilities and grew rapidly within the organization. Within 2 years, he was offered a project in Chicago and flew to the USA.

Stories like this strengthen my belief that IT is still the best career option for young graduates like yourself.

At the start of your new journey into the field of Information Technology, I request you to consider taking a bold step and enroll with IANT (Institute of Advance Network Technology).

IANT is India's leading IT training organization with more than 100 centers of education spread across the country. They are a PLATINUM level partner of CompTIA in India. Our decision to award this unique credential to IANT is on the basis of their high quality training delivery methods. During your study in IANT, we assure you of receiving the best quality training through a group of certified instructors and follow a syllabus which is approved by CompTIA. As a global leader in certification, we are extremely careful in awarding partnership to organization and have many stringent processes to evaluate the capabilities of the partners. I am extremely happy to state that IANT has passed all of these evaluations to be awarded a PLATINUM level partnership – which is the highest category of our engagement.

Over the past 2 years IANT has certified more than 10,000 students on 2 of CompTIA's certification programs - COMPTIA IT FUNDAMENTALS® and COMPTIA NETWORK+®. Most of these fortunate students are now placed with large organizations across the country, earning handsome pay packages and creating a bright future for themselves.

2016 will be a wonderful year for IT careers in India. Fueled by the Government's huge initiatives such as "Make in India" and "Digital India", the job openings in this sector are projected to be anywhere close to 4 lacs. Moreover, IT employment will not only be limited to only IT services and E-Commerce companies, but will incorporate other industry segments as well such as banking, manufacturing and tourism. In a recently concluded "Make in India Week" celebrations in Mumbai, we got to know that there were foreign investment commitments of ₹ 15.2 Lakh Crores. Most of these businesses will depend hugely on IT to run their systems and processes. This will definitely lead to a huge growth in the employment opportunities of youth having the right

mix of IT skills.

Today, we are experiencing a shift in the way IT is being delivered to customers. There is a huge impetus on new technologies such as cloud computing and mobility overridden with information security. With these new technologies being introduced, it is necessary for students to gather the latest technological knowledge to keep themselves ahead of the competition.

With our partner IANT, we realize that students today need the most advanced courses and certifications. We work in close collaboration with IANT to offer new technology training to their students which makes these students stand apart in a crowd of job seekers.

I want to conclude by saying that it is the best time for young graduates to be part of the ever growing IT Industry. However, to step into the "World of IT" it is mandatory for students to get the best quality training and industry accredited IT certifications. Both of these are provided by our partner IANT under highest quality standards at an affordable price.

I would also like to state that spending your hard earned finances on training and certification is NOT an EXPENSE, but an INVESTMENT that will reap huge returns when you see yourself faring above than average in your life.

On behalf of CompTIA, I wish you the Very Best for your future.

CompTIA

Get into IT



Plan Your Future in a Digital World

IANT Offering CompTIA Traning and Certifications



**GET TRAINED....
GET CERTIFIED....
GET THE JOB!**

Help Desk : +91 9377916611

www.iantindia.com



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www.CompTIA.org
<http://certification.comptia.org/>

Dear Student,

Greetings from **CompTIA** - the World's largest IT certification organization!

At the start of your new journey into the field of Information Technology, on behalf of CompTIA, I congratulate you on your excellent decision to enroll with **IANT (Institute of Advance Network Technology)**.

IANT is India's leading IT training organization with more than 110 centers & India's No. 1 Training Institute for Hardware, Networking, Software & Cyber Security spreaded across the country. They are also the only PLATINUM level partner of CompTIA in India. Our decision to award this unique credential to IANT is on the basis of their high quality training delivery methods. During your study in IANT, we assure you of receiving the best quality training through a group of certified instructors and follow a syllabus which is approved by CompTIA.

You will also get a chance to appear for 2 of CompTIA's certification programs: **COMPTIA STRATA – IT FUNDAMENTALS®**, **COMPTIA NETWORK+®** **CompTIA Security * +** and **CompTIA Cloud+®**.

Some of the reasons why these certifications will be extremely valuable to you are mentioned below:

- CompTIA certifications are valid all across the world as the leading certifications in information technology
- You will be in a better position to win attractive employment – not only in India, but anywhere across the world and at a better salary package in companies like HP, Dell, Lenovo and many more
- You will be able to prove that the skills you have gained can be used in the practical world of Information Technology
- You will score better in job interviews compared to people who are not certified

On behalf of CompTIA, we once again congratulate you on enrolling with our PLATINUM PARTNER IANT and wish you all the best for a rewarding career in Information Technology.

If you have any queries, please do not hesitate to reach us on the email id provided below.

Yours truly,

PRADIPTO CHAKRABARTY
Regional Director – INDIA

Email: info_india@comptia.org



GROWTH

We Tend to Value IANT Over Actual Achievement

The September 9/11 Attacks on the World Trade Center ignited a very important question in the heart of the founder of EC-Council – Jay Bavisi.

Shortly after the attacks, they researched the web for "Information Security" programs that would be able to provide Information Security professionals with the necessary tools and education that will help them avert a cyber war, should the need ever arise.

The results returned from the research were disappointing and that motivated them to form the International Council of Electronic Commerce Consultants, known as the EC-Council.

They soon gained the support of subject matter experts from all over the world that eventually led to the creation of various standards and certifications both in the electronic commerce and information security space.

The International Council of E-Commerce Consultants (EC-Council) is a member-based organization that certifies individuals in various information security and e-business skills. EC-Council has been certified by American National Standards Institute to meet its ANSI 17024 standard. It is the owner and creator of the world famous Certified Ethical Hacker (CEH), Computer Hacking Forensics Investigator (CHFI) and EC-Council Certified Security Analyst (ECSA)/License Penetration Tester (LPT) programs, and as well as many others programs, that are offered in over 92 countries through a training network of more than 500 training partners globally.

IANT Offering EC-Council Training and Certifications

- CSCU** : Certified Secure Computer user
- CEH** : Certified Ethical Hacker
- CHFI** : Computer Hacking Forensic Investigator
- ECSA** : EC-Council Certified Secure Programmer
- ENSA** : EC-Council Network Security Administrator
- ECSA** : EC-Council Certified Security Analyst
- ECIH** : EC-Council Certified Incident Handler
- ECVP** : EC-Council Certified VOIP Professional
- ECSA** : EC-Council Certified Security Specialist
- PMIS** : Project Management in IT Security
- CCMP** : Certified Cyber Marketing Professional
- DRP** : Disaster Recovery Professional

www.iantindia.com

Help Desk : +91 9377916611

E-Commerce Consultants Pvt. Ltd.

A Division of EC-Council

Dear Student,

Greetings from EC-Council !

Thank you for enrolling in an EC-Council program at Institute of Advance Network Technology (IANT).

IANT is India's leading Hardware, Networking, Software & Cyber Security training organization, For over a decade, it has been training thousands of students into IT professionals in more than 110+ training centers spread across the country.

IANT is EC-Council's No 1 Academia Partner in India. At IANT, you will be trained by Certified EC-Council Instructors, in an authorized lab environment, available at more than 110+ locations in the country.

India needs more than 500,000 Information Security professionals. With its widespread network of centers, and relentless efforts, IANT is well placed to cater to this need.

By enrolling in one of EC-Council's programs, you have joined an elite group of budding professionals from one of the 170+ countries, who have been trained and certified in one of the several Information Security programs offered by EC-Council.

EC-Council programs offered by IANT.

- 1) CSCU : Certified Secure Computer User.
- 2) CEH : Certified Ethical Hacker.
- 3) CHFI : Computer Hacking Forensic Investigator.
- 4) ECSA : EC-Council Certified Security Analyst.
- 5) ECSP : EC-Council Certified Secure Programmer.

We are glad to inform you that due to its dedicated efforts and focus towards student's welfare, IANT has become one of the most important partners of EC-Council.

We welcome you to the world of Information Security and wish you all the success in your career.

Yours Truly,



Anil Nair
Country Manager
EC-Council

Email: anil.nair@eccouncil.org

EC-Council

Hackers are here. Where are you?

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Career-Wise : The Open Source Opportunity You Want to Ride

There's a never-before-seen demand for talent with skills in Open Source technologies. Driven by new-age technologies, and pent up demand for greater performance at lower costs, companies in India and abroad, as well as the IT industry, are flocking to Open Source. Here's how you can leverage that opportunity.

What does DTDC, Mahindra Comviva, AskMeBazaar.com, Meru Cabs, and BookMyShow have in common? They all run on Open Source.

That should tell you something.

A lot of IT industry watchers like to say that

Open Source is seeing a revival. That isn't true. Open Source never saw decline. Amidst the furor around SMAC technologies (Social, Mobility, Analytics and Mobility), it's true that Open Source has received less coverage than it deserves. But as more industry leaders, including Microsoft, the stronghold of propriety software, embrace Open Source – and with the rise of cloud computing and big data (Both of which demand Open Source skills) – Open Source is getting a lot more media attention.

That should tell you something.

Here's what it should tell you: Interest in Open Source is only getting more intense, and that is a real reason you should make an educational investment in the technology.

There's never been a better time to be skilled in Open Source.

The Rise and Rise of Open Source

There's a reason Indian enterprises and public sector companies love Open Source. It offers them unparalleled flexibility and the ability to customize IT

to the specific needs of business users, it also offers them security, freedom from vendor lock-in, greater interoperability, higher levels of innovation, and lower costs.

That's why a significant number of Indian companies, both public and private, are turning to Open Source.

According to the annual Future Of Open Source survey, 78 Percent of companies already run their business on Open Source, over 60 percent are creating software for customers based on Open Source, and 88 percent plan to contribute to Open Source projects in the next three years.

Another survey undertaken by Oxford Economics and the Wipro Council for Industry Research reveals how fast Open Source is gathering significance. According to its data



60 percent say Open Source will power their "The message from the data is clear: Open Source is enabling measurable success for business and public-sector users around the world. It is a key to innovation, a building block for other technologies, and an increasingly important way of organizing other types of

work." Says Edward Cone, Technology Practice Lead at Oxford Economics.

And as more businesses flock to Open Source, it will mean more jobs.


Demand for Open Source Skills

Growth of new age technologies is driving interest in Open Source to a large extent. The rise of cloud computing, mobility, and big data, in particular, are driving demand for Open Source skills to new heights.

In cloud computing, the growing popularity of Open Stack is what is propelling the immense need for Open Source skill sets. According to another study, over 80 percent of enterprises plan to adopt Open Stack as a cloud computing solution or already have.

"The momentum behind Open Stack is Huge." Say Andrew Aitken, GM and Global Open Source Practice Leader at Wipro, in an interview to EFYTimes.com

Then there's demand for NoSQL skills. The growing adopting of NoSQL databases by large companies has created a huge demand for professionals with NoSQL skills. According to



one Bloomberg survey of startups valued at \$1 billion and more, none of the start-ups it surveyed had large propriety databases, such as those from Oracle. That means they are probably working with Open Source databases such as NoSQL.

Worldwide, the NoSQL market will reach \$4.2 billion by 2020, growing at 35 percent CAGR, according to Allied Market Research.

Last, but not the least, there's an almost delirious demand for people with Hadoop skills to drive big data projects. From e-commerce companies, digital content giants, and social media behemoths, all the way to companies like Google, Apple, EMC, Yahoo, Oracle, IBM, Amazon, and Cisco, everyone wants Hadoop developers.

A recent Business insider report based on data from Dice.com, a job site, showed that over half of the 30 top-paying tech jobs- that saw salaries of \$110,000 and more—revolved around Hadoop-based services of software. It also included a few jobs around NoSQL.

There's no denying that the Hadoop and Big Data analytics market will boom. It will touch \$13 Billion by 2017, growing at 54 percent

CAGR.

A big reason for those high salaries is the mismatch between demand and supply. There just aren't enough Open Source skilled engineers to fill the demand. That makes it a perfect skill to acquire.

A full 56 percent of respondents to be Oxford Economics study say a lack of skills is among the top three challenges companies are facing when it comes to leveraging Open Source.

Another study showed that half of the organizations that have attempted to implement OpenStack haven't been successful thanks to a shortage of Open Source cloud computing skills. And 86 percent also confessed that the private cloud skills in the market aren't good enough for them to leverage OpenStack or other private clouds with a high degree of confidence.

Yet another survey, this time from DataStax, found that only eight percent of developers worldwide thought that there were enough skilled people to meet the NoSQL demand.

There's a common theme here : A gap in the skills market, one that you could fill with the

This is only the tip of the iceberg. There's also a great demand for Open Source storage solutions, mobile applications, hybrid cloud management, containerized applications, system administrators, virtualization, application administration, and Linux troubleshooting, among others.

Filling the Gap

The first step towards taking advantage of these gaps in the Open Source skills market is to get certified.

Red Hat, the world's leading provider of Open Source software solutions, offers a wide range of courses.

Its courses are tailored to meet the needs of its participants, and stay in line with the industry, which increases your chances of landing a job. It also offers courses that can be taken online, in class, or on-site, which makes it convenient to take a course.

Get yourself certified by Red Hat today, and take charge of your future.

IANT Offering Redhat Training and Certifications

- RHCSA : Redhat Certified System Administrator
- RHCE : Redhat Certified Engineer
- Redhat Certified Virtualization Administrator
- Redhat Openstack Administration
- Redhat Storage Server Administration

www.iantindia.com

Help Desk : +91 9377916611

Yugesh Jerath

Director, Global Learning Services,
Red Hat Asia Pacific

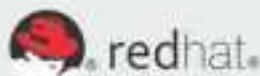
Red Hat's training programs are huge demand across the APAC region thanks to the growing importance of new-age technologies. As the need for cloud computing, mobility, big data grow, so will the need for Open Source skills to support them.



Sudhir Bhaskaran

Head, Global Learning Service,
Red Hat India.

Today, there are very few ways students can differentiate themselves from the thousands of other first-time job seekers in the market than by certifying themselves in Red Hat technologies.



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Hiranandani Gardens, Powai, Mumbai - 400 076.
T: +91-22-3987 8888 | F: +91-22-3987 8899 | redhat.com

Dear Student,

Greetings from **Red Hat** - The World's leading Open Source Technology company !

We are pleased to know that you have decided to pursue a career in the field of Information Technology and have chosen 'Institute of Advance Network Technology (IANT)' as a stepping stone towards an exciting path ahead.

IANT is a leading hardware and Networking Training Institute and is a Red Hat Certified Training Partner (RHCTP) since 2006. IANT has been also a consistent award winning RHCTP. Trainers from IANT have undergone the faculty training program conducted by Red Hat and follow our globally designed curriculum and ensuring that you learn the technology through hands-on learning.

During your training period with IANT, you will get an opportunity to undergo training on the following certification program of Red Hat : **Red Hat Certified System Administrator (RHCSA) and Red Hat Certified Engineer (RHCE).**

Some of the reasons way Red Hat Training & Certifications will be valuable for you are mentioned below :

- 81% of the recruiters say hiring Linux Talent is a Priority.
- 85% of the hiring managers say Linux talent is hard to find.
- Nearly 1/3 of the companies are offering above normal pay increases to Linux professionals.
- Employers around the world trust Red Hat Certifications.
- 90% of Fortune 500 companies rely on Red Hat.
- For 15 years, red hat training and Certifications has helped IT professionals validate their skills through a certification program with rigorous, hands-on testing and task based certification exam.
- Hands-on lab based learning ensuring maximum retention of skills.
- Course actively engage the students in task-focussed activities, lab-based knowledge checks, and facilitative discussions.
- Course materials provide job aids, exercise reinforcement, and task based reference materials.

We look forward to you making full use of the opportunity provided at IANT and entering into the exciting world of Open Source & Red Hat.

Wishing you the best.

Sudhir Bhadharan

Head, Training Services
Red Hat India Pvt. Ltd.

Oracles' Safra Catz Visits India - What Does That Mean for You?

By Raja Dasgupta | Workforce Development Program and Certification | Oracle India



Earlier this month, Oracle global chief Safra Catz announced a \$400 million expansion of their India facility on her maiden trip to India. What does this mean to the average Oracle Professional? Well, if nothing else, this shows you Oracle's commitment to growth in India which can only translate to more demand for Oracle professionals in India and the region. With plans to establish a host of incubation centres for startups and an extensive training programme to groom young talent in the country, Safra Catz who also met Prime Minister Narendra Modi, said that the new Oracle campus which will come up in Bangalore, will be its largest centre outside the US.

Why is this news important?

IT Professionals are often conflicted when choosing what technology to focus and build a career on, in a fast-changing technology landscape, many have chosen to align themselves with a technology leader that drives change or is at the forefront of technology. Oracle has been the choice for many and given the latest announcements made in India, young graduates should look at the opportunities that can be awarded with becoming an Oracle expert. In her recent trip, Safra Catz also announced that they will be looking to hire over 2000 additional staff in India. With such tremendous expansion within the company, it is likely to continue to spur growth for Oracle technology and Oracle professionals in the marketplace.

So how can you take advantage of this opportunity? What can help you stand out in a crowd?

The Oracle Workforce Development Program (WDP) is specifically designed for young graduates looking to position themselves separately from the crowd. Through the WDP, students can get Oracle Certified, further validating their skills and knowledge, giving employers more confidence in hiring them. A large number of Oracle Certifications are available for DBAs and Developers, but is it worth it?

Should You Get Oracle Certified?

With so many questions around the benefits of certification and whether or not certification will help candidates get jobs or get better jobs. Surveys conducted all point to the job and salary benefits of certification. According to Payscale.com, the salary for non-Certified Oracle DBA vs Certified Oracle DBAs is quite dramatic with the median salary for non-Certified DBAs standing at 444k INR. In comparison, Certified DBA Manager can earn in excess of 2.3M INR! The numbers really speak for themselves.

Oracle Database Administrator (DBA) Salary (India)

The average salary for an Oracle Database Administrator (DBA) is Rs 444,413 per year. The skills that increase pay for this job the most are Performance, Oracle RAC, Oracle eBusiness Suite, and Oracle DB 8i/9i/10g/11i. Experience strongly influences income for this job. Most people move on to other jobs if they have more than 10 years' experience in this field.



(Source: [http://www.payscale.com/research/IN/job=Oracle_Database_Administrator_\(DBA\)/Salary](http://www.payscale.com/research/IN/job=Oracle_Database_Administrator_(DBA)/Salary))

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Average Salary for Certification: Oracle Certified Professional (OCP) DBA



(Source: [http://www.payscale.com/research/IN/Certification=Oracle_Certified_Professional_\(OCP\)_DBA/Salary](http://www.payscale.com/research/IN/Certification=Oracle_Certified_Professional_(OCP)_DBA/Salary))

The same is true for Java Developers vs Senior Java Developers! The median salary for Java Developers is 360k INR, Senior Java Developer who have 10 years of experience can earn in excess of 1.4M INR according to Payscale.com! So, how can you jumpstart your earnings without waiting 10 years – Get Certified!

Java Developer Salary (India)

The average pay for a Java Developer is Rs 359,035 per year. Experience strongly influences salary for this job. People in this job generally don't have more than 10 years' experience.



Country: India | Currency: INR | Updated: 19 Sep 2015 | Individuals Reporting: 2,225

(Source: http://www.payscale.com/research/IN/Job=Java_Developer/Salary)

Oracles' Safra Catz Visits India - What Does That Mean for You?



Senior Java Developer Salary (India)

A Senior Java Developer earns an average salary of Rs 797,270 per year. Experience strongly influences pay for this job. People in this job generally don't have more than 10 years' experience.



	National Salary Data (7)	Rs 0	Rs 500K	Rs 1M	Rs 1.5M
Salary	Rs 454,330 - Rs 1,360,350				
Bonus	Rs 0.00 - Rs 194,421				
Profit Sharing	Rs 0.00 - Rs 153,193				
Total Pay (7)	Rs 464,430 - Rs 1,441,652				

Country: India | Currency: INR | Updated: 19 Sep 2019 | Individuals Reporting: 279

[Source: http://www.payscale.com/research/IN/Job=Senior_Java_Developer/Salary]

Oracle certification is not just a piece of a paper. It is one of the most credible and valuable accreditations for IT professionals. Whether you are experienced or new to the industry, the need to prove your abilities and skills to prospective employers continues to gain more importance in an intensely competitive job market. Having a recognized certification can make all the difference in giving companies the confidence to give you that job. So why get yourself certified? In short - Increased job prospectives, higher earning power, proven skills, a recognized industry accreditation - that is what you get with an Oracle Certification!

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Importance of Android Application Development

1. **Ease of Development and Customization:** Android is an open ecosystem where an android app development practitioners can freely access desired sections of the android code they might need for their apps, through the Android Software Development Kit(SDK).
2. **App Rejection is Seldom:** Mobile application submission process in Google Play (or Android Marketplace as knows earlier) is simple unlike Apple's App Store. All it takes is submitting an app with a description, setting the price, and..it's done.
3. **No Restriction on Development:** Android applications development professional can make his choices to create mobile apps as per revenue models. For understanding we can draw Face book example where once cannot charge for applications though monetization through in-app advertising and in-app purchases is possible. So it limits developers to create great functional app which require good investment as well as returns to recover cost at a minimum, which gets difficult with free apps. This is not the case with Android.
4. **Thriving Developers Community:** Android app developer's community is thriving most probably because developers are likely to develop for the platform they use themselves. As a result they participate in the community. Now the biggest advantage is that everyone (including newbie) is providing android app development related queries. Besides you can opt to out source your project to a android development company.



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It is highly imperative for every Indian to be aware of "hacking hazards" faced by Internet users in India. With Prime Minister Narendra Modi flagging off "Digital India" and "Make in India" campaigns, it becomes all the more crucial now to be Cyber safe.

Government of India has created a new Department called ISEA (Information Security Education & Awareness), which aims to inform about Cyber crime and prepare them to fight against the dangers lurking in cyber arena.

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We are thankful to Mr. R.F. Kherani, CMD of IANT and entire Team of IANT for their guidance and continuous support to make this portal happen. We appreciate the contribution of IANT for the growth of Indian IT industry.

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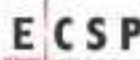
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- VB.Net with Ado.net
- Asp.Net with CF

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- Programming with C.
- Object Oriented Programming C++
- Star - Android

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- Oracle JAVA SE 7 Professional (1z0-851)

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Star Certification - SSU (Star Secure User)

CompTIA A+ CERTIFICATION PROGRAM

CompTIA NETWORK+ CERTIFICATION PROGRAM

RHCE /RHEL- 7 (Red hat Certified Engineer)

EXTRA

MCSA 2012 (Microsoft Certified Solution Associate)

CCNA

EC- Council- CEH v9 (Certified Ethical Hacker)

CompTIA Security+ SY0-401

CompTIA- Cloud Essential

In this program we offer 7 International Certification Exams & 11 Participation Certificates at the lowest cost.
International Certification Exams are mandatory.

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Cloud Computing

An Overview

Cloud computing is not a new concept. We have been using Cloud Computing for ages, in one form or other. In simple words, you can presume Cloud to be a very large server on which different services and data are stored and you access all those for your work. The software and data that you access for your work doesn't exist on your computer instead it's on the server. This concept of using services not stored on your system is called Cloud Computing.

Cloud Computing is not an object in itself, rather it comprises services and database that are accessed via web or any private network.

Key Cloud Computing providers: IBM, HP, Google, Microsoft, Amazon Web Services, Salesforce.com, NetSuite, VMware etc.

Examples of Cloud Computing services includes Google Docs, Office 365, DropBox, SkyDrive etc.

Types of Cloud Computing

Cloud Computing is composed of three service models and four deployment methods.

Cloud Computing Service Models

1. Infrastructure as a Service (IaaS)
2. Platform as a Service (PaaS)
3. Software as a Service (SaaS)

Infrastructure as a Service (IaaS): The IaaS layer offers storage and infrastructure resources that is needed to deliver the Cloud services. It only comprises of the infrastructure or physical resource. Top IaaS Cloud Computing Companies: Amazon (EC2), Rackspace, GoGrid, Microsoft, Terremark and Google.

Platform as a Service (PaaS): PaaS provides the combination of both, infrastructure and application. Hence, organisations using PaaS don't have to worry for infrastructure nor for services. Top PaaS Cloud Computing Companies: Salesforce.com, Google, Concur Technologies, Ariba, Unisys and Cisco.

Software as a Service (SaaS): In the SaaS layer, the Cloud service provider hosts the software upon their servers. It can be defined as a in model in which applications and softwares are hosted upon the server and made available to customers over a network. Top SaaS Cloud Computing Companies: Amazon Web Services, AppScale, CA Technologies, Engine Yard, Salesforce and Windows Azure.

Cloud Computing Deployment Models

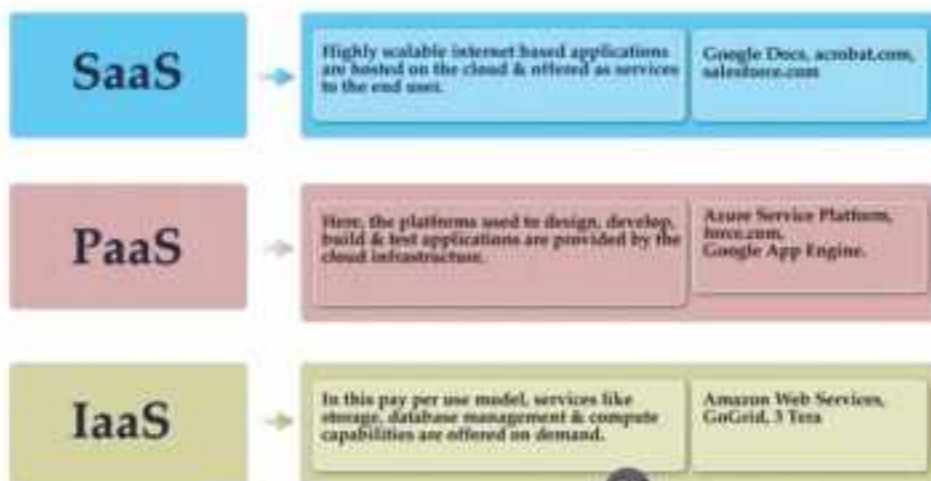
1. Private Cloud
2. Public Cloud
3. Hybrid Cloud
4. Community Cloud

Private Cloud: The cloud infrastructure is operated solely for an organisation. In simple words we can say that such cloud models are dedicated to a third party who wish to use. It may be managed by the Cloud Computing provider or any other third party.

Public Cloud: The cloud infrastructure is made available to the general public or a large industry group and is owned by the Cloud providers.

Hybrid Cloud: It's a combination of two or more clouds (private, community or public).

Community Cloud: This cloud infrastructure is shared by several organisations.



IaaS Providers

Infrastructure as a Service (IaaS) is a cloud model which allows organizations to outsource computing equipment and resources such as servers, storage, networking as well as services, such as load balancing and content delivery networks. The IaaS provider owns and maintains the equipment while the organization rents out the specific services it needs, usually on a "pay as you go" basis. **See All IaaS Providers**

- IaaS Provider: Amazon Web Services (AWS)
- IaaS Provider: Windows Azure
- IaaS Provider: Google Compute Engine
- IaaS Provider: Rackspace Open Cloud
- IaaS Provider: IBM SmartCloud Enterprise
- IaaS Provider: HP Enterprise Converged Infrastructure



PaaS Providers

Platform as a Service (PaaS) is a cloud model designed for software developers that streamlines the development process by shifting specific aspects of systems management to the service provider. PaaS is used to develop web and mobile applications using components that are pre-configured and maintained by the service provider, including programming languages, application servers and databases. >> **See All PaaS Providers**

- PaaS Provider: Engine Yard
- PaaS Provider: Red Hat OpenShift
- PaaS Provider: Google App Engine
- PaaS Provider: Heroku
- PaaS Provider: AppFog
- PaaS Provider: Windows Azure Cloud Services
- PaaS Provider: Amazon Web Services (AWS)
- PaaS Provider: Caspio
- Specialized PaaS: mBaaS Providers

SaaS Providers

Software as a Service (SaaS) is a cloud model that delivers on-demand applications that are hosted and managed by the service provider and typically paid for on a subscription basis. SaaS solutions offer a number of advantages over on-premises deployments, including minimal administration and maintenance, anywhere access, and in many cases improved communication and collaboration. **See All SaaS Providers**

- SaaS Customer Service Providers
- SaaS Office Suite Providers
- SaaS Project Management Providers
- SaaS Help Desk Providers





BIG DATA

THE TOOL TO TACKLE BIG DATA

Data analysis is nothing new. Even before computers were used, information gained in the course of business or other activities was reviewed with the aim of making those processes more efficient and more profitable. These were, of course, comparatively small-scale undertakings given the limitations posed by resources and manpower; analysis had to be manual and was slow by modern standards, but it was still worthwhile. Opinion polling, for example, has been carried out since early in the 19th century, almost 200 years ago. The first national survey took place in 1916 and involved the publication *Literary Digest* sending out millions of postcards and counting the returns. As a result, they correctly predicted Woodrow Wilson's election as president.

Since then, volumes of data have grown exponentially. The advent of the internet and faster computing has meant that huge quantities of information can now be harvested and used to optimise business processes. The problem is that conventional methods were simply not suited to crunching through all the numbers and making sense of them. The amount of information is phenomenal, and within that information lies insights that can be extremely beneficial. Once patterns are identified, they can be used to adjust business practices, create targeted campaigns and discard ones that are not effective. However, as well as large amounts of storage, it takes specialised software to be able to

make sense of all this data in a useful way.

'Big Data' is the emerging discipline of capturing, storing, processing, analysing and visualising these huge quantities of information. The data sets may start at a few terabytes and run to many petabytes – far more than traditional data analysis packages can handle. In 2012 Gartner defined it as, 'high volume, high velocity, and/or high variety information assets that require new forms of processing to enable enhanced decision making, insight discovery and process optimization.' This '3V' classification has been built on since (particularly with the addition of veracity), such that Big Data is often described in terms of the following characteristics:

- **Volume:** Terabytes or petabytes of data are analysed. An estimated 2.5 quintillion bytes of data (2.5 trillion gigabytes) are created every day, an amount which will only rise in the future. However, the size of the dataset is not the only variable that characterises Big Data.
- **Variety:** The dataset may contain many different forms of data – not simply a large amount of the same type. The profusion of different kinds of mobile device and the variety of content consumed on them on a wide range of platforms, for example, means that companies can harvest data from an enormous array of sources, each telling them a different part of the same picture.

- **Velocity:** Data may change on a constant basis. For example, modern cars may have 100 or so different sensors that continually monitor different aspects of performance. Markets change on a moment-to-moment scale. Data is highly fluid, and snapshots are not always enough.

- **Veracity:** The data acquired may not all be accurate, or much of it may be uncertain or provisional in nature. Data quality is unreliable, especially when there is so much of it. Any system of analysis must take this into account.

- **Variability:** Data capture and volume may be inconsistent, not just inaccurate, so varying quantities and qualities of data will be acquired at different times.

- Together, these factors mean that managing the data can be an extremely complex process, since there are many data sources with differing types and formats of data, but these need to be correlated and made sense of if they are to be useful.



Big Data Companies

Due to the nature of Big Data, specialist companies have grown up around it in order to manage the volumes and complexity of information involved.

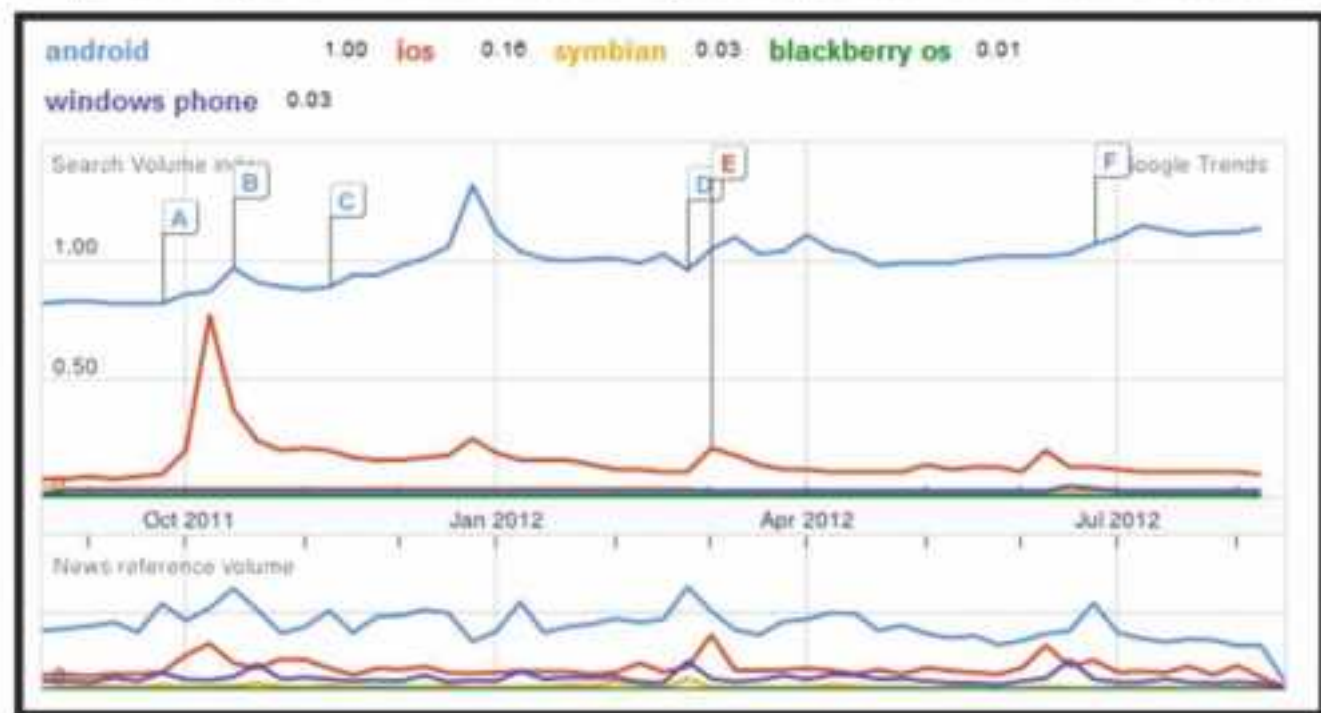


Conclusion

Big data isn't just an emerging phenomenon. It's already here and being used by major companies to drive their business forwards. Traditional analytics packages simply aren't capable of dealing with the quantity, variety and changeability of data that can now be harvested from diverse sources – machine sensors, text documents, structured and unstructured data, social media and more. When these are combined and analysed as a whole, new patterns emerge. The right big data package will allow enterprises to track these trends in real time, spotting them as they occur and enabling businesses to leverage the insights provided.

Top 10 Mobile Phones Operating Systems

Many people have ample knowledge about different mobile phones and their companies, but a very few of them know something about operating systems. It is vital to learn about different mobile OS used by many companies so that you can know that what is behind your smartphone's smooth and colorful touchscreen.



Above is the popularity graph, which represents last 12 months trends. It is apparent that Android is beating up all other operating systems, even the IOS. Symbian, which was once an industry leader, is also observing a diminishing slope. IOS might continue to compete Android, and with the release of Windows Phone 8, we might see some healthy competition in future.

Comparison Of Top Mobile OS

Symbian

Symbian OS is officially the property of Nokia. It means that any other company will have to take permission from Nokia before using this operating system. Nokia has remained a giant in the low-end mobile market, so after Java, Symbian was the most used mobile phone till a couple of years ago. Still Symbian is widely used in low-end phones but the demand rate has been continuously decreasing. By upgrading Symbian mobile OS, Nokia has made it capable to run smartphones efficiently.



Android

September 20th, 2008 was the date when Google released the first Android OS by the name of 'Astro'. After sometime next upgraded versions 'Bender' and 'Cupcake' were also released. Google then adopted the trend of naming Android versions after any dessert or a sweet in alphabetical order. The other releases are Donut, Éclair, Froyo, Gingerbread, Honeycomb, Ice Cream Sandwich and Jelly Bean. Marshmallow (Android 6.0) is so far the latest Android version from Google.



Blackberry OS

Blackberry OS is the property of RIM (Research In Motion) and was first released in 1999. RIM has developed this operating system for its Blackberry line of smartphones. Blackberry is much different from other operating systems. The interface style, as well as the Smartphone design, is also different having a trackball for moving on the menu and a qwerty keyboard. It is a very reliable OS and is immune to almost all the viruses. Some of the smartphones operating on Blackberry OS are Blackberry Bold, Blackberry Curve, Blackberry Torch and Blackberry 8520



Apple iOS

iOS was introduced in 29th June 2007 when the first iPhone was developed. Since then iOS has been under gone many upgrades and currently the latest one is the iOS 9.

Apple has still not allowed any other manufacturer to lay hands on its operating system. Unlike Android, Apple has more concentrated on the performance along with appearance. This is the reason that the basic appearance of iOS is almost the same as it was in 2007. Overall it is very user-friendly and is one of the mobiles best operating systems in the world.



Windows OS

All of you will be familiar with Windows OS because it is used in computers all over the world. Windows OS has also been used in mobile phones, but normal mobile phone users find it a bit difficult to operate it but at the same time it was very popular among people who were used to it.

This was the case until Nokia and Microsoft joined hands to work together. The latest Windows release by Microsoft is known as Windows 7 which has gained immense popularity among all kind of users.

BADA

Like others, Samsung also owns an operating system that is known as BADA. It is designed for mid-range and high-end smartphones. Bada is a quiet user-friendly and efficient operating system, much like Android, but unfortunately Samsung did not use Bada on a large scale for unknown reasons. The latest version Bada 2.0.5 was released on March 15th, 2012. There are only three phones that are operating on Bada. These three smartphones are Samsung Wave, Samsung Wave 2 and Samsung Wave 3.



Open WebOS

Open WebOS also known as HpWebOS or just WebOS which was developed by Palm Inc but after some years it became the property of Hewlett-Packard. WebOS was launched in 2009 and was used in a number of smartphones and tablets. Hp promoted WebOS at a very high level by using it in high-end smartphones and tablets. The latest device working on WebOS was the Hp Touch Pad. With the introduction of Android in the market sales of HpWebOS, based tablets got very less.



► Comparison Of Top Mobile Operating System



Palm OS (Garnet OS)

Palm OS was developed by Palm Inc in 1996 especially for PDAs (Personal Digital Assistance). Palm OS was designed to work on touchscreen GUI. Some Years later it was upgraded and was able to support smartphones. Unfortunately, it could not make a mark on the market and currently is not being used in any of the latest top devices. It has been 5 and half years since we saw the latest update of Palm OS in 2007. Palm OS was used by many companies including Lenovo, Legend Group, Janam, Kyocera and IBM.

► How do I know what operating system my mobile phone has?



MeeGo

MeeGo was called a mobile platform, but it was designed to run multiple electronic devices including handhelds, in-car devices, television sets, and net books. All the devices on which MeeGo can have the same core but the user interface is entirely different according to the device.

In 2010, Moorestown Tablet PC was introduced at COMPUTEX Taipei, which was also a MeeGo powered device. Most of you will have heard the name Nokia N9, but you will not be aware of the fact that this large selling device is operating on MeeGo.

- ▶ ***It is also a platform so developers can create applications or 'apps'***



Maemo

Nokia and Maemo Community joined hands to produce an operating system for smartphones and internet tablets, known as Maemo. Like other devices, the user interface of Maemo also comprised of a menu from which the user can go to any location.

Like today's Android the home screen is divided into multiple sections that show Internet Search bar, different shortcut icons, RSS Feed and other such things.



Verdict

These ten are not the only mobile operating systems out there; there are tons more, and we shall be seeing one by Firefox mobile OS <Source> in future as well. Firefox, which once dominated the internet browser market, is in the process of building their web OS for mobiles, so in the future mobile OS market might get even more competitive.

For now, Android is the clear winner, however, if we look at profits and expansion, Apple has become the biggest Tech company and leaves Google far behind.

- Discussion: **Which is better Android or iPhone?**

Open Source Software



Open-source software is also called as OSS, which is a computer software program designed and deployed with its source code made available and licensed with a free license in which the copyright holder provides the rights to an anonymous entity for any purpose. People using OSS can distribute the software to anyone and for any purpose because Open-source software is very often developed in a public, collaborative manner.

The top Five reasons why individuals or organizations choose open source software are:

- 1) Lower cost,
- 2) Security,
- 3) No vendor 'lock in', and
- 4) Better quality
- 5) Transparency

The Open source code modification, redistribution of open-source software reserved under copyright holder according to copyright law. GNU General Public License (GPL), is a good example of it which allows free distribution under the same license for its free usage. Software licenses grant rights to users, which would otherwise be reserved by copyright law to the copyright holder. Among thousands of Open source software projects these 10 Open Source Softwares listed below are the most important and valuable. These are rare software product that has no alternatives and must require.

1) Linux kernel

The Linux kernel is a prominent example of free and open source software. It is a Unix-like operating system released under the GNU General Public License version (GPLv2). Linux wasn't the first open source software project, but it was the powerful community developed by contributors worldwide. The Linux kernel is used by a variety of operating systems based on it, which are usually in the form of Linux distributions. The popularity of Linux Kernel rapidly accumulated developers and users who adopted code from other free software projects for use with the new operating system.

2) GNU Utilities and Compilers

The GNU Project is the flagship of the free software movement and Compiler Collection, which is also named as GNU Compiler Collection (GCC) which is developed by

the GNU Project supporting various programming languages. The Free Software Foundation (FSF) distributes GCC under the GNU General Public License (GNU GPL), which is the source of an amazing variety of tools and utilities that, when combined with the Linux kernel, provide a complete operating system.

With the Linux kernel, the GNU utilities and the GNU Compiler Collection make up the holy trinity of the Linux world. Versions are also available for Microsoft Windows and other operating systems because it only handled the C programming language and the compiler was extended to compile C++ in December of that year 1987.

3) Ubuntu

Ubuntu is a Debian-based Linux operating system developed to increase usability and ease of use. Ubuntu is a free software and named after the Southern African philosophy of Ubuntu (literally, "humanness"), which often is translated as "humanity towards others" or "the belief in a universal bond of sharing that connects all humanity". Ubuntu is the first choice of novice users and PC sellers because its free and no need to pay fees. The Ubuntu project is publicly committed to the principles of open source development; people are encouraged to use free software, study how it works, improve upon it, & distribute it.

4) BSD Operating Systems

Linux isn't the only popular free open source operating system, there are a number of Unix-like operating systems under active development, named behind BSD (Berkeley Software Distribution). Free BSD, Net BSD and OpenBSD are very famous examples of the BSDs.

FreeBSD is famous for superior reliability and performance. It's a free Unix-like operating system developed by AT&T UNIX and has more than 200 active developers and thousands of contributors.

5) Samba

Samba is Free Software licensed under the GNU General Public License, the Samba project is a member of the Software Freedom Conservancy. Samba is a free software

re-implementation of the SMB/CIFS networking protocol, originally developed by Andrew Tridgell. Samba bridges the gaps between Linux/Unix and Windows, allowing Unix and Linux servers to provide file and print services to Windows clients, and Linux and Unix clients work with Windows file servers.

6) MySQL

The world's most popular open source database with easy administration, excellent read performance, and transparent support for large text and binary objects make it the top choice for many Web sites. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. It is a popular choice of database for use in web applications, and is a central component of the widely used LAMP open source web application acronym for "Linux, Apache, MySQL, Perl/PHP/Python." Free-software-open source projects that require a full-featured database management system often uses MySQL. Applications which use MySQL databases include: TYPO3, MODx, Joomla, WordPress, phpBB, MyBB, Drupal and other software.

7) BIND

BIND is the most popular open source DNS (Domain Name System) server software on the Internet. It works on Unix-like operating systems, it is the de facto standard that implements DNS protocols for the Internet. The Berkeley Internet Name Domain package was originally written at the University of California at Berkeley. The software consists, most prominently, of the DNS server component, called contracted for name daemon. In addition the suite contains various administration tools, and a DNS resolver interface library. The latest version of BIND is BIND 9, first released in 2000.

8) Sendmail

Sendmail is a general purpose internet network email routing facility born before the Internet was standardized and supports different kinds of mail-transfer and delivery methods, including the Simple Mail Transfer Protocol (SMTP) used for email transport over the Internet. Sendmail served as the backbone of the Internet mail system throughout the 1980s and 1990s. It has lost ground to Postfix, Qmail, Exim, and Microsoft Exchange in recent years, but still ranks among the most popular MTAs (mail transfer agents).

9) OpenSSH and OpenSSL

OpenSSH

OpenSSH is an abbreviation of OpenBSD Secure Shell developed as part of the security conscious OpenBSD project. It is a set of computer programs providing encrypted communication sessions over the Internet using the SSH protocol. It was created as an open source alternative to the proprietary Secure Shell software suite offered by SSH Communications Security.

OpenSSL

OpenSSL is an open-source implementation software package uses strong cryptography. OpenSSH encrypts shell communications to remote computers, addressing the shortcomings in tools such as rlogin and telnet, which send usernames and passwords in clear text. OpenSSL is a software library that allows developers to incorporate SSL or TLS into their Internet applications. It was written in the C programming language, implements the basic cryptographic functions and provides various utility functions. The project is managed by a worldwide community of volunteers that use the Internet to communicate, plan, and develop the OpenSSL toolkit and its related documentation.

10) Apache

The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows. The Web server that puts the A in LAMP is still fast, flexible, and secure, with broad operating system and Web programming language support and hundreds of modules available to extend the functionality. Apache is developed and maintained by an open community of developers & Apache Software Foundation.

The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards.

There are lots of open source database available. Here is the list of world's most popular and advanced open source database.

- MySQL
- PostgreSQL
- Firebird
- GNU SQL Server
- SAP MaxDB
- ScimoreDB
- DXstore database system
- HSQLDB
- CloudDB

10 Most Popular Open Source Software Ever

1. WordPress

WordPress is the world's most popular blogging platform, used by a staggering 202 million websites. As simple or as complex as you want it to be, WordPress is supported by a wide array of plugins which can be used to transform a standard blog into anything you could possibly desire. Besides blogs, WordPress can be used as a straightforward content management system to power anything from online shops using WordPress e-commerce themes, online magazine using a WordPress magazine theme to portfolios using WordPress portfolio themes, WordPress gallery themes are great for creations in an online portfolio.



2. Magento

Magento, used by 30,000 merchants, including Samsung, Nespresso and The North Face, is the world's fastest growing e-commerce platform. Magento Community Edition is offered for free under the Open Software License. The Enterprise Edition, for which you have to pay, offers features like multi-store capability, store credits and gift cards, out-of-the-box.



3. Mozilla Firefox

Firefox currently accounts for 24.43% of the recorded usage share of web browsers, but this figure is on the rise. Already the browser of choice for most web professionals, Firefox's popularity is growing thanks to its vast selection of third party add-ons, which let users tailor their browsing environment down to the finest detail.



4. FileZilla

FileZilla is a hugely successful, cross-platform FTP client. It's also available as a server, for Windows only. Created in January 2001 by Tim Kloss as a class project, FileZilla has gone on to become the 5th most popular download of all time from SourceForge.net.



5. GnuCash

GnuCash provides a great, free alternative to paid-for accounting software. Designed for personal and small business use, it offers bank account, stock, income and expense tracking, in addition to double-entry accounting.



6. Audacity

Music software like Cubase and Logic Pro can be incredibly expensive, which is why an increasing number of people are turning to Audacity, a free, cross-platform sound editor. Users can record and edit live audio; cut, copy, splice and mix sounds; and convert ageing tapes and records into digital format.



7. OpenOffice

With the ability to create text documents, spreadsheets, presentations and databases, OpenOffice is an accomplished rival to Microsoft Office, which clearly influenced OpenOffice's design. Microsoft Office users will feel completely at home and find that OpenOffice performs just as well, if not better.

8. Ubuntu

Named after an African philosophy of community, sharing and generosity, Ubuntu is a free operating system for Linux that's quick and easy to use. Recent figures suggest that around 50% of Linux users have Ubuntu installed. With its focus on usability, Ubuntu comes with OpenOffice, Firefox, Empathy, Pidgin, GIMP and other tools pre-installed.



9. Mozilla Thunderbird

With its speedy searches, built-in RSS feeds, strong security and superb add-ons, Thunderbird has to be the best, free email application available. If you're prepared to spend some time tailoring your email environment with add-ons, you'll absolutely love it, but it's probably not ideal for complete novices.

10. Handbrake

Handbrake rips/converts DVDs to MPEG-4 for playing back on your iPod or archiving. It doesn't have the ability to decode DVDs, but can do so if you have VLC, which includes a DVD encoder, installed on your computer.





PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. Originally created by Rasmus Lerdorf in 1994, the PHP reference implementation is now produced by The PHP Group. PHP originally stood for Personal Home Page, but it now stands for the recursive backronym PHP: Hypertext Preprocessor. PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management system and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a Common Gateway Interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a command-line interface (CLI) and can be used to implement standalone graphical applications



Why Use PHP?

Rapid Development

WebSmart Program Templates help you create web applications in minutes and shorten the web development learning curve by generating the starting HTML and non-proprietary PHP for you. The WebSmart IDE also includes many HTML, CSS and JS tools and a code editor to speed up development.



Open Source PHP

WebSmart PHP uses PHP, a proven open-source language developed to create web applications. PHP is easy for RPG programmers to learn, can be coded procedurally or object-oriented, and has thousands of free scripts. IBM and Zend fully support PHP on the IBM i. BCD is a Zend Select Partner.



WebSmart Mobile

WebSmart Mobile, included with WebSmart PHP, jumpstarts mobile web application development with templates that generate the initial UI and server-side code. Use wizards or edit the generated code to create any mobile web app.



Leverage RPG and your IBM i

WebSmart makes it easier for RPG programmers to transition to web development. It also integrates with the PHP toolkits on IBM i to leverage existing RPG code. WebSmart PHP applications can be hosted on IBM i (runs with Zend Server) or on other platforms.



Support & Industry Leader

A seasoned support team helps you succeed by providing unlimited phone and email support during your evaluation and for the life of your support agreement. BCD has over 35 years of experience in the IBM i and midrange marketplace.



Integrated Suite

WebSmart PHP is available as a standalone solution or as part of BCD's modernization suite that includes WebSmart ILE, Presto (5250 web enablement), Clover Query (web-based reports), Catapult (report distribution) and Nexus Portal.



Software Testing

What is Software Testing?

Software testing is a process of executing a program or application with the intent of finding the software bugs.

• It can also be stated as the process of validating and verifying that a software program or application or product:

1. Meets the business and technical requirements that guided it's design and development
2. Works as expected
3. Can be implemented with the same characteristic.

• Let's break the definition of Software testing into the following parts:

1) **Process:** Testing is a process rather than a single activity.

2) **All Life Cycle Activities:** Testing is a process that's take place throughout the Software Development Life Cycle (SDLC).

- The process of designing tests early in the life cycle can help to prevent defects from being introduced in the code. Sometimes it's referred as "verifying the test basis via the test design".
- The test basis includes documents such as the requirements and design specifications.

3) **Static Testing:** It can test and find defects without executing code. Static Testing is done during verification process. This testing includes reviewing of the documents (including source code) and static analysis. This is useful and cost effective way of testing. For example: reviewing, walkthrough, inspection, etc.

4) **Dynamic Testing:** In dynamic testing the software code is executed to demonstrate the result of running tests. It's done during validation process. For example: unit testing, integration testing, system testing, etc.

5) **Planning:** We need to plan as what we want to do. We control the test activities, we report on testing progress and the status of the software under test.

6) **Preparation:** We need to choose what testing we will do, by selecting test conditions & designing test cases.

7) **Evaluation:** During evaluation we must check the results and evaluate the software under test & the completion criteria, which helps us to decide whether we have finished testing & whether the software product has passed the tests.

8) **Software products & related work products:** Along with the testing of code the testing of requirement & design specifications & also the related documents like operation, user and training material is equally important.



“It is not enough to do your best. You must know what to do and then do your best.”
-W. Edwards Deming

Virtualization

Once you choose the type of hypervisor that fits your needs, you need to choose the best hypervisor technology for your infrastructure. Hypervisor products from the major virtualization vendors have their pros and cons, so consider the features of these hosted and bare-metal virtualization hypervisors before you make your decision.

Bare-metal virtualization hypervisors

VMware ESX and ESXi

VMware has the most mature hypervisor technology by far, offering advanced features and scalability. However, VMware's bare-metal virtualization hypervisor can be expensive to implement because of its higher licensing costs. The vendor does offer a free version of ESXi, but it's very limited and has none of the advanced features of the paid editions. VMware also offers lower-cost bundles that can make hypervisor technology more affordable for small infrastructures.

Microsoft Hyper-V

Microsoft Hyper-V has emerged as a serious competitor to VMware ESX and ESXi. Hyper-V lacks many of the advanced features that VMware's broad product line provides, but with its tight Windows integration, Microsoft's hypervisor technology may be the best hypervisor for organizations that don't require a lot of bells and whistles.

Citrix XenServer

Citrix XenServer is a mature platform that began as an open source project. The

core hypervisor technology is free, but like VMware's free ESXi, it has almost no advanced features. Citrix has several paid editions of XenServer that offer advanced management, automation and availability features. But despite offering a stable bare-metal virtualization hypervisor, Citrix struggles to compete with Microsoft and VMware on hypervisor technology.

Oracle VM

Oracle VM is Oracle's homegrown hypervisor technology based on open source Xen. If you want hypervisor support and product updates, though, it will cost you. A simple, no-frills hypervisor, Oracle VM lacks many of the advanced features found in other bare-metal virtualization hypervisors. As with XenServer, the development cycle of Oracle VM is longer and limited, which makes it hard to compete with VMware and Hyper-V. One advantage of Oracle VM, though, is that it's certified with most of Oracle's other products and therefore includes no-hassle support.



Hosted Virtualization Hypervisors

VMware Workstation/Fusion/Player

VMware Player is a free virtualization hypervisor. This hypervisor technology can only run a single virtual machine (VM) and does not allow you to create VMs. VMware Workstation is a more robust hypervisor with some advanced features, such as record-and-replay and VM snapshot support. VMware Workstation retails for \$189 and has three major use cases: for running multiple different operating systems or versions of one OS on one desktop, for developers that need sandbox environments and snapshots, or for labs and demonstration purposes. VMware Fusion is the Mac version of Workstation, which only costs \$89 but lacks some of the features and abilities of Workstation. This hypervisor technology is better suited for running Windows and Linux on Macs.

VMware Server

VMware Server is a free, hosted virtualization hypervisor that's very similar to VMware Workstation. However, VMware Server lacks some of the features of Workstation and only supports a single snapshot per VM. This hypervisor technology is designed to run headless with a network-based administration utility and is optimized for running more server-like workloads. VMware has halted development on Server since 2009, but it works well as a no-frills hosted hypervisor and is an easy alternative to using the free version of ESXi.

Microsoft Virtual PC

Microsoft acquired the Virtual PC technology from Connectix in 2003 and re-branded it as Virtual PC 2004. The latest version of this hypervisor technology, Windows Virtual PC, only runs on Windows 7 and only supports running Windows operating systems on it. A common use case for Virtual PC is running legacy apps on a Windows 7 desktop using older versions of Windows. Virtual PC is free and is also available for users with Windows 7 Professional, Enterprise or Ultimate licenses as a pre-packaged appliance called Windows XP Mode.

Oracle VM VirtualBox

Oracle VM VirtualBox is a mature virtualization hypervisor that's suitable for many needs and use cases. VirtualBox hypervisor technology provides reasonable performance and features if you want to

virtualize on a budget. Despite being a free, hosted product with a very small footprint, VirtualBox shares many features with VMware vSphere and Microsoft Hyper-V. Oracle VM VirtualBox provides a decent alternative to more expensive hypervisors for both server and desktop virtualization.

Red Hat Enterprise Virtualization

Red Hat's Kernel-based Virtual Machine (KVM) has qualities of both a hosted and a bare-metal virtualization hypervisor. KVM turns the Linux kernel itself into a hypervisor so VMs have direct access to the physical hardware. KVM in Red Hat Enterprise Virtualization offers many enterprise-level features and comes with a Windows-based management server for managing multiple KVM hosts. This hypervisor technology is not free, however, and while KVM has enterprise features and scalability, it lacks some of the more advanced features and application programming interfaces that VMware and Microsoft offer.

Parallels Desktop

Parallels is known for its popular Parallels Desktop for Mac hypervisor, which is very similar to VMware Fusion. Parallels also has a desktop version of its hypervisor technology that runs on both Windows and Linux. Plus, it has a more powerful edition called Parallels Server for Mac, which has greater scalability and more advanced features. Parallels' hypervisors are also pretty mature, having been first launched in 2005. They offer a very low-cost, feature-rich hosted hypervisor that can be used for a variety of purposes.





Cisco Certifications

Cisco certifications validate your ability to use the best-in-class networking and business communications devices from Cisco Systems. The "Cisco Career Certification" program offers a diverse range of credentials that bring measurable rewards to network professionals and the companies that employ them.

Cisco certifications improve your understanding of networking in more than just Cisco products; throughout the certification learning process, candidates will develop a complete understanding of IT networking and how different network topologies interact to form a secure and efficient network. This "big picture" knowledge is beneficial in any networking role, and it's one of the many reasons Cisco certifications are in consistent demand, even at companies with few Cisco products.

The latest generation of Cisco certifications was designed to be more compatible with the day-to-day activities of computer networking professionals, thus Cisco certification candidates can quickly acquire the credentials that prove their job-specific expertise to hiring managers.



Cisco Training

Five Levels of Cisco Certification

This newest generation of Cisco certifications features five levels of general IT certification; from lowest to highest the Cisco certification levels are: Entry, Associate, Professional, Expert and Architect.

Eight Paths of Cisco Certification

Within the five levels of Cisco certifications, the Cisco Career Certification program features various paths (a.k.a. tracks) so you can match your Cisco learning path to your specific job role or industry. The 8 Paths of Cisco certifications are:

- 1. Routing and Switching** :: This is the Cisco Certification path for Network Professionals who Install and Support Cisco networks containing LAN and WAN Routers and Switches.
- 2. Design** :: The Design Cisco Certification path is aimed at Network Professionals who Design Cisco networks in which LAN and WAN routers and switches reside.
- 3. Network Security** :: This is the Cisco Certification path for Network Professionals who Design & Implement Cisco Secure Networks.
- 4. Service Provider** :: This Cisco Certification path is aimed at Network Professionals that work with Infrastructure or Access Solutions in a Cisco environment - primarily in the telecommunications arena.
- 5. Service Provider Operations** :: This is the Cisco Certification path for Network Professionals who Manage, Maintain, and Troubleshoot complex Service Provider Networks.
- 6. Storage Networking** :: This Cisco Certification path is for Network Professionals who Implement Storage Solutions over extended networks utilizing multiple transport options.
- 7. Voice** :: The Voice Cisco Certification path is for Network Professionals who Install and Maintain Voice over IP (VoIP) Networks.
- 8. Wireless** :: The Wireless Cisco Certification path is aimed at Network Professionals who who Configure, Implement, and Support Wireless Networks.



Benefits of Cisco Certification:

- Cisco certified professionals are among the highest paid IT professionals in the world.
- Cisco certifications validate skills in networking, one of the fastest growing and most versatile IT domains.
- According to a Fairfield Research survey, CCNA certification gives on average a 16.7% salary increase.
- Industry data proves that each Cisco certification earned brings an increase in the IT professional's salary.
- Getting Cisco certified opens the door to exciting and lucrative IT careers in the government and military.
- Resumes with Cisco certifications grab the attention of information technology recruiters and employers.
- Cisco certified professionals gain access to a global community of like-minded network professionals.

Popular Cisco Certifications:

CCENT Certification | CCNA Certification | CCDA Certification | CCNP Routing & Switching

Microsoft certifications demonstrate the skills and expertise to implement business solutions using Microsoft technologies.

Microsoft provides the core business and productivity programs that organizations rely on. Regardless of your industry or career path, a clear understanding of Microsoft technologies (and the certifications to back up your knowledge) will help you accelerate your IT career.

In April of 2012, Microsoft Learning launched the latest iteration of its Microsoft Certified Professional (MCP) program. The new generation of Microsoft certifications reflects the increasing importance of cloud-computing competencies, while still validating the skills to build on-site business solutions using Microsoft technologies. As you can see in the below graphic from Microsoft Learning, the current MCP program has three certification levels: Associate, Expert and Master.

As new Microsoft technologies are released, the certificates in the column one (Microsoft Certifications) will be phased out and replaced by those in the second column (Microsoft Cloud-Built Certifications). That said, businesses will be using existing Microsoft technologies for years to come, so credentials like the MCTS, MCITP & MCPD will remain in



high-demand through 2013 and beyond; these MCPs will be eligible for upgrade exams to expedite migration to cloud-built certifications.

Another key change in Microsoft's revamped certification program is the introduction of Recertification. Dependent on the certification(s) held, recertification requires MCPs to take 1-2 additional exams every few years to verify that their skills are up-to-date with the latest Microsoft technologies. Recertification increases the value of Microsoft certificates by proving to managers that a MCP's skills are always up-to-date.



Three Levels of Microsoft Certifications

ASSOCIATE

Microsoft Certified Technology Specialist (MCTS) certifications validate technical skills in a specific Microsoft product, e.g., SharePoint 2010 or Windows 7. Typical skills measured by MCTS certificates include implementing, troubleshooting, building on and debugging a particular Microsoft technology. MCTS certifications distinguish you from competing job candidates by demonstrating in-depth knowledge of the Microsoft technologies you can use.

Microsoft Certified Solutions Associate (MCSA) certifications are the foundation of your cloud-optimized Microsoft certification track. Designed for job-seekers in the early stage of their IT career, MCSA certifications demonstrate fundamental on-site and cloud-computing skills in one of Microsoft's core platforms, i.e., Windows Server, SQL Server, Windows Client. Microsoft associate certifications are required to reach the expert-level credentials.

EXPERT

Microsoft Certified Professional Developer (MCPD) certifications are designed for programmers and developers, while Microsoft Certified IT Professional (MCITP) certifications designate IT professionals with a non-development focus. Where the MCTS certification proved your skills in a single Microsoft technology, IT Professional & Developer certificates validate expertise across multiple technologies for a specific job role, e.g., Database Administrator or Enterprise Desktop Support Technician. Typical skills measured by MCPD and MCITP certifications include designing, deploying, operating, integrating and optimizing the technologies for your IT job role. Microsoft's new expert class of

credentials includes

Microsoft Certified Solutions Expert (MCSE) certifications for IT professionals and Microsoft Certified Solutions Developer (MCSA) certifications for programmers. Where the MCSA certificate measures skills in a single core technology, Microsoft expert-level certifications validate an individual's wide-ranging technical skills, plus the ability to build on-premise and cloud-optimized solutions across multiple Microsoft platforms. Microsoft expert certifications are required to reach the master-level credentials.

MASTER

Microsoft Certified Architect (MCA) certifications help the highest-achieving professionals in IT architecture distinguish their expertise. The skills requirements for MCA certification are rigorous and culminate in an oral review by a prestigious board of your peers. Candidates for this high-end Microsoft certification have been working in IT for over 10 years

and acting in an architect capacity for at least 3 years.

Microsoft Certified Solutions Master (MCSM) certifications recognize the preeminent IT professionals in their area of expertise. MCSM certification-holders have the deep technical skills and field experience to plan, design and implement complex IT and business solutions for on-premise, cloud-based and hybrid enterprise environments using a wide range of technologies. The MCSM certification is the pinnacle of the Microsoft's new MCP program and one of the industry's most difficult IT certifications to achieve.



Microsoft

Other In-Demand Certifications from Microsoft

Microsoft Office Specialist (MOS)

MOS certifications are the only professional credentials that validate hands-on skills in the popular business and productivity applications in the Microsoft Office suite, i.e., Word, Excel, PowerPoint, Access and Outlook. Whether you want to advance your career or simply increase your productivity, earning a Microsoft Office Specialist certification demonstrates the expertise you need to succeed.

Microsoft Certified Trainer (MCT)

Microsoft Certified Trainers are technical experts and the leading instructors for Microsoft technologies. MCTs are the only individuals allowed to deliver authorized Microsoft classes and certification prep using Microsoft Official Curriculum (MOC) courseware and labs. Getting MCT certified opens up a range of career opportunities at computer training centers, universities and public & private organizations that conduct in-house training.

Microsoft Certified Systems Engineer (MCSE)

Before Microsoft introduced the MCTS and MCITP certifications in 2007, the MCSE was the go-to credential for IT professionals specializing in Microsoft server technologies. MCSE certificates demonstrate skills in designing, implementing and administering business solutions based on Windows Server 2000 or 2003. MCSEs can perform a variety of job roles including network analyst, systems analyst, systems engineer, IT support engineer and technical consultant.

Microsoft Technology Associate (MTA)

These are the most basic Microsoft certifications. MTA certifications validate fundamental skills in key IT career disciplines, including software & web development, database administration, security, networking and server administration. The MTA is specifically designed for students and individuals who are not yet working in the IT industry. MTA certificates demand no prerequisites.



Benefits of Microsoft Certifications for Individuals :

- Microsoft Certified Professionals gain market-relevant skills that employers recognize and respect.
- Earning the latest Microsoft certifications proves you are up-to-date with new Microsoft releases.
- Passing Microsoft certification exams demonstrates advanced technical problem-solving skills.
- Microsoft certifications help distinguish you from competing job candidates for IT positions.
- Committing the time and resources to earn Microsoft certifications proves career dedication.
- MCPs gain access to a huge global community of certified professionals, featuring exclusive networking opportunities, conferences, parties, training sessions and special events.
- Microsoft Certified Professionals have access to exclusive online career-building resources including:
 - Microsoft Transcript Tool - Share password-protected transcripts with hiring managers & employers.
 - Microsoft Certificate Manager - Create, download and print customized certificates of IT achievement.
 - Logo Builder - Design custom logos to enhance your brand and highlight your Microsoft certifications.

Benefits of Microsoft Certifications for Businesses :

- MCPs have the skills and expertise to maximize the ROI of Microsoft software and hardware.
- Microsoft Certified Professionals are proven to be more efficient and productive in the workplace.
- Businesses employing MCPs can leverage the power of the Microsoft brand to attract and win new business.
- Companies employing Microsoft Certified Professionals experience less downtime and lower employee turnover.

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A decade of E-Governance: Hits and Misses

India has undergone a remarkable journey in the last 10 years of e-Governance, something it embarked upon in a programmatic way with the announcement of the NeGP in 2006. The outcome of this journey is best exemplified in contrast with events of the last decade. At the start of this journey one had to literally explain what was meant by e-Governance and seek leadership support to design and launch e-Governance projects – as they were seen “fashionable” or not core to “Governance”.

In contrast, today, the country’s Prime Minister is driving the agenda for e-Governance looking at the growing impatience of citizens to seek services online or on “single windows”. For a citizen, it is more convenient if these services can be accessed online – a mode which perhaps today many consider a fundamental right! A large number of successful projects have been implemented across center and states that bears testimony to the progress that has been made in the last decade. While there are project specific learnings, at an aggregate level, the last decade has clearly achieved some very important results.

The Hits

First and foremost – Making e-Governance integral to Government reform. Today, no governance reform program can be planned or designed, without considering e-Governance at the core of its solution. Take for example, the recent push of Government of India on ease of doing business – a closer look at the good practices circulated by DIPP for ease of doing business has e-Governance and ICT at its core.

Secondly, we have substantially moved the dial within government departments from buying hardware or software to buying services and solutions. This is no mean achievement given the change management challenge, and that too in a relatively short span of time. The focus of most well designed projects in e-Governance is on buying services, outcomes linked to driving service level agreements that directly benefit the citizens/business – Mae Seva, MCA21, Passport Seva Kendra, Income Tax eFiling are some shining

examples of this change.

Thirdly, we have created an infrastructure that can help scale up and meet the need for the next five years. While, in hind sight, there has been considerable discussion on the efficiency and utilization of common infrastructure (SWAN, SDC, CSCs, UID) created under NeGP & beyond, the fact remains that this infrastructure creation by itself, is a great achievement and will help to drive the next wave of transformation. Finally, the last decade provides many great examples of private sector involvement & leveraging India’s IT talent to create innovative solutions both in terms of the kind of partnership model as well as ownership models. This includes the creation of GSTN, MahaOnline or ITD CPC.

The Misses

Like with all things in life, there is clearly much more that can be done or indeed needs to be done. What has been achieved so far, serves as the stepping stone towards larger success that is “pervasive” and not select examples of work well done. In that context, the experience of the last decade does provide us some great learnings that we need to recognize and leverage, as we go about implementing the vision for the next five years.

One of the biggest learnings of the last decade, has

been that a mere “go live” of an e-Governance project or “availability of services online”, does not necessarily lead to benefits for citizens or businesses. There are a litany of projects that are delayed or have not as yet delivered results. At the core of this problem, lies project design. Projects were designed in a siloed manner (sometimes for a division within a department) not considering the big picture with reference to delivering services to citizens or businesses. While trying to deal with problems in a

piecemeal fashion i.e. by doing easy things first, one tends to lose sight of the goal and hence very often e-Governance projects end up driving internal efficiency and not service improvement and consequently process reforms do not happen, remain on paper or end up being superficial. A typical situation where the means to solving a problem is seen as an end in itself. A good example of this is perhaps the Paperless office project.

Another learning, is the inadequate focus on capacity building and leadership development to manage large technology projects. Capacity building was seen as "insourcing resources" through "outsourcing". This was at best staff augmentation, that too sourcing project specific technical resources, wherein the need was for leadership and functional experts within Government. The problem of capacity within the government to design projects that deliver outcomes continues to be a challenge. Another aspect of this lack of capacity relates to the role of technical agencies of the Government – Central and State. In current form, they tend to be advisors, implementers, monitors and adjudicators of project implementation. This not only makes them loose focus and not develop expertise but also makes them less impactful. Further, in a rapidly changing world of technology, with little new talent infusion or professional training opportunities, the nodal agencies cannot stay at the cutting edge of delivering transformation through technology or meet expectations of various stakeholders and Government Leadership. It also places them against the private sector in the war for talent – a war that public sector very often loses in India.

Another issue that the experience of the last decade brings to fore is the continued disengagement of large

Indian or Global players to be part of e-Governance transformational projects. Today, it is no secret that attracting three bids for large transformation programs is in itself seen as an achievement. At the core of this reality is the inability of the procurement model to appreciate what it takes to deliver an e-Governance project (such as seeking fixed price for an IT project without clearly defining the boundaries) and no accountability on the part of the Government for timely decision making and fulfilling their obligations. Further, even where partnership and PPP projects are designed with user charges to cover investments and returns, the payment model assumes the Government ownership – wherein government still collects money and then decides payment. This being the case even though payment of user charges implicitly assumes satisfactory dispensation of services being provided. This means projects are seeking private sector funding for government expenditure with an expectation that all risks will be borne by the private sector. This approach is clearly unsustainable and is the main reason for limited interest of private sector to e-Governance projects.



Time is Right and NOW!

Digital India provides a new paradigm to what is possible and for us to envision a future that bears little semblance to the past and allow the next wave of e-Governance to really allow transformation of Governance. Today, technology is all pervasive and mobility provides a platform that allows almost every Indian access and interface without the need for "technical capacity" to participate in the Digital World. The telecom advancement (mobility) including future plan for rollout (reasonable price for data services), path breaking IT development platform, Analytics, IoT, Cloud, etc., together with success of key initiatives of the Government such as Unique ID, Jan Dhan accounts and Digital Locker provides us an opportunity to break from the past and envisage and deliver e-Governance solutions that are truly citizen centric in form & spirit.

The next part of the blog will focus on the next wave of e-Governance reforms, and their transformational impact on citizen lives. In the meantime, feel free to download the FREE NASSCOM-KPMG study- "Transforming Governance"- that captures the past decade of e-Governance and teases the next decade of reforms from here <http://www.nasscom.in/transforming-governance-decade-egovernance-and-next-wave-governance-reforms>



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Mrs. Punita Shah
General Manager

IANT has grown by leaps and bounds in the last 17 years of our operation. We have a Strong structure in place for all the departments like Operations, Technical, Placements, Academia, Skills Development, Support and Services, R&D, Learning & Services.

We make sure that our students at all the Education Centres get Quality education and facilities. We also look to support our Franchisee partners so that they are able to deliver value to the whole Training Process.

We also give a lot of emphasis on Time management, as we consider it to be a very important aspect for achieving organizational objectives. It is our ambition to deliver a education ecosystem, which will help the current generation in enriching their careers.



Mr. Ajay V. Vyas
Operation Manager

Operations Management does not need to be complex. Basically, Our Operations Management focuses on supporting the organization in achieving the best possible results, both in short term as well as long term. In line with our CMD vision to create a robust organization, we are focusing on the execution aspect vigorously. We ensure corrective actions are taken without any delay as well as gather learnings based on the deviations taken from the expected outcomes. In recent years, Our Team has achieved significant results by working in a structured operational framework.

We have one of the best ERP systems in the Education Industry. This has helped us in smoothening the internal processes immensely.

Team Speak @ IANT

At IANT, We are connected with a Number of Training Centres spread across various parts of India, where a big pool of students are being trained on different subjects in Information & Technology.

It is very important to provide quality support & service to all the Training Centres in terms of Support Infra, Systems, Communication, Materials etc so that Training centre and Students get in time quality support and services. Timely support ensures that the Training Centres are able to deliver seamless quality education. The idea is to make it a simple and effective tool for better management of the centre.

Our CMD says Support and Services at IANT, is not just a department; It is the backbone of IANT. It is the key to creating a winning formula for consistent success.



Mr. Jigar Patel
Support & Service Manager



Mr. Tausif Shaikh
Technical Head and Sr. Faculty

Change is the only thing, which is permanent and when we talk about Change, Information Technology has been at the forefront. We have seen constant evolutions happening in Hardware, Networking, Software and Cyber Security space.

We in IANT, are always ready to adapt to all the changes and want to be the first in India to adopt new technology and innovations so that we can offer the best of Training.

Our Certified Faculty ensure that the Training deliverables are met and are as per global standards.

I believe that Training is not a job. It is a passion to Create, Mentor and Train !!

We do not Just Teach, We Make Professionals.

Join India's No.1

HARDWARE, NETWORKING, SOFTWARE, ETHICAL HACKING & CYBER SECURITY Institute

▶ Team Speak @ IANT



IANT[®]
Institute of Advance Network Technology
COMPUTER EDUCATION

An ISO 14001-2004 & 9001-2005 Certified Institute

IANT strongly believes in "Do not follow where the Path may Lead, Go instead where there is no path and Leave a Trail". IANT's strength lies in creating Industry benchmarks and constantly evolving to the ever changing demands of the IT industry.

Government of India's Digital India and Make In India initiatives are bound to create a huge demand for IT resources. It will be our endeavour to offer Skilled, Trained and Certified resources and also ensure that they are in sync with the IT job market demands.

IANT lays a strong emphasis on International certifications for our students, which helps them get a clear cut edge over other students at the time of job placements. With 2016 promising a bullish hiring Trend, we see a huge demand for internationally certified students. IANT looks forward to be at the forefront of offering quality manpower to the IT industry in 2016.

ExcITing Times Ahead !!



Mr. Ratish Ravindran
Recruitment & Placement



Mr. Santosh Gupta
R&D Head

IT Industry is growing at a very fast pace in India. World sees immense scope and opportunities in India as IT professionals are available at affordable remunerations. IT Infrastructure and Human Resource Development are the key areas, where our country has focused consistently.

However, Technological Development seeks a robust Training Infrastructure to develop Human Resource with a eye on the future. Institutions should adapt to Latest Technology and Trends. Research should be a continuous process to develop Training modules ,in line with the present and future demands of IT Industry.

IANT has always taken the lead in foreseeing the demands of the IT Industry. Emphasis is laid on enhancing the global career prospects of our students. Technology Vendors directly monitor the Trainings offered.

IANT has stressed on the value of International Certifications and ensures that every student trained, is certified by Technology Providers. Our consistent focus has helped us offer customized Training modules ,matching the Industry requirements. The dynamic flexibility of our R&D cell has helped us deliver the best in IT Education.

Team Speak @ IANT



Mr. Siraj Mansuri
Manager, Skills Development

Skill development is always about Change - Changing people, Changing organisations.

We have developed a separate wing to enhance the Individual skills of the Students as well as Employees. We organise various Seminars. Activities and Expert talks to sharpen the skillsets of students. We also offer special Training for Students to enhance their communication skills.

Our objective behind skill development is to outreach and give access to Education & Training.



Mr. Samir Kherani
Manager, Learning Services

Information Technology today connects the world and makes the world look small. Recent times have seen the advent of "Cloud" and "Virtualization". But the question which crops up is whether these are secure? This is the big question "Are we secure?"

The Answer to the above question is –"IANT". IANT is the No.1 Hardware, Networking, Software and Cyber Security Institute. We offer quality Training, Global Certifications and Live environment for practice. Our faculty is Certified and Experienced. Our Candidates are well placed by virtue of having International Certifications.

Quality Training is a guarantee with IANT!

Join India's No.1

HARDWARE, NETWORKING, SOFTWARE, ETHICAL HACKING & CYBER SECURITY Institute

► Team Speak @ IANT



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In Today's world ,It has become important for everybody to understand and learn at least the basics of Information Technology. Information Technology is a vast subject in itself and gives a lot of options to students to choose the specializations of their choice. To Fulfill the increasing demand for IT professionals, IANT trains and polishes the skills of students in the field of Hardware, Networking, Software, Ethical Hacking & Cyber security. The IT sector in India offers a lot of job opportunities .With IT biggies like Infosys, Cognizant, Wipro, TCS, Accenture, There is no dearth of job opportunities. The growth of India's IT Industry has been instrumental in facilitating the economic progress of India.



▲ **Mr. K.K. Bhojani**
Franchisee Manager, Pune



▲ **Mrs. Jasmin Khoja**
H. R. Manager

IANT believes the best goals can be achieved by best people in the organization.

We have processes in place with regards to Talent Management, Performance Management, Talent Hiring etc.

We have set industry benchmarks in Employee retention and engagement. Our people centric approach has won us lot of appreciation from the Education Industry.

We look forward to utilizing our People to the betterment of IT Education.

▶ Franchisee Overview

IANT



Anusha Sekar
Franchisee Director, Chennai



“ I have completed my Engineering in computer science with almost 10 + years in the field of Education. I have worked in companies like NIIT, SIEMENS, AFORESERVE & VEGA in this tenure.

I feel great to be associated with IANT and growth path I see with respect to IANT is tremendous and they impart education to the latest IT trend and make the students Job Ready. IANT gives a feel of being in a family. They support us a lot in terms of Marketing Strategies, Product Support and their encouragement keeps us going. IANT takes utmost care of their Partners understand their needs and provides them complete support.

“EAST OR WEST IANT IS THE BEST”

We are proud of being an IANTian. We look forward for long term association in IANT Family. ”



Shyam Sen
Franchisee Director, Jodhpur



“ During the past decade, The world is moving at an unimaginable speed in the area of Information & Technology. There are so many individuals who have contributed to the growth of IT industry. Today, IT Industry is giving a tremendous platform to aspirants, to showcase their Talent & capabilities.

I feel very privileged and fortunate to be working with IANT for the last 7 years. I personally believe that the Passion to evolve and succeed is truly the hallmark of IANT.

Great Leadership, Effective management and quality Training has helped IANT achieve great heights in a short span of time. ”

► A Proud Franchisee Model



Siraj Belim
Franchisee Director, Surat



“ IANT Education has global tie up for internationally recognized syllabus in IT education. IANT educates students to become IT professionals, IT security professionals, IT Entrepreneurs with worldwide recognized knowledge as well as International Certification. IANT Education system is a remarkable resource for IT growth in INDIA ...“DIGITAL INDIA”.

There are various other brands in IT Education industry which are being run as franchisee, but from our experience of last 16 years in IT industry & working with IANT from last 2 years, I can proudly say that no one can offer this kind of excellent support and services. I am glad to be a part of IANT.”



Manoj Vyas
Franchisee Director, Ujjain



“ Today's IT Industry has a pivotal role to play in supporting the Government and the Indian Industry as a whole. States like Madhya Pradesh have massive requirements for basic and quality IT Education.

With IANT, We are able to provide quality IT training to our students. We have been able to take big strides in the quality of education offered to students due to the support given by IANT.

We are very proud to be associated with the Best Brand in IT Education.”

▶ Franchisee Overview

IANT



Kiran Gogari
Franchisee Director, Nasik



“ India has shown the way to the world. India has emerged as a nation of Software Developers and IT Experts by adopting to the emerging technologies and trends. This would not have been possible, but for the combined efforts of the Government, Education Institutions and above all our Trained IT force.

IANT has emerged as a Leader in offering Global Certifications and has been constantly innovating to meet the Talent demands of the IT Industry. I am very proud to be part of this process and Thank IANT for their guidance and support always.



Vijay Jain
Franchisee Director, Raipur



“ In every step, IANT has been the greatest investment and best Corporate Partner one can ever have. In IANT, we are made to focus on QUALITY. By introducing Latest Courses and Curriculum, IANT makes sure that our students are at par with anyone in the world.

I would like to highlight the efforts of our CMD Mr.R.F.Kherani. His compassionate approach and his undying efforts in transforming Franchisee Centers is commendable. Associating with IANT has truly been an enriching experience, personally and professionally.”



redhat.
CERTIFIED
TRAINING PARTNER

EC – Council

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...ID.



3



CompTIA

4

EDUCATION
LEADERSHIP AWARD
BANGALORE



IANT AWARDS AND ACHIEVEMENTS

1. IANT, Institute of Advance Network Technology – a redhat Certified Training Partner was honored with Five Coveted Awards at the 2015 “RedHat Summit” for the Highest number of Candidates Trained and for Highest number of RedHat Certifications in India.
2. IANT, Institute Of Advance Network Technology - The Biggest EC-Council Training Partner in India was honored with Two Coveted Awards At The 2015 EC-Council Global Partner Summit – The Best Academia Award & Training Most Number of Students in Information Security Excellence Award.
3. No.1 Training Partner of CompTIA in India. First and Only Platinum Partner of CompTIA in India. (No. 1 Hardware & Networking Institute Award Winner)
4. Received National Education Leadership Award in Bangalore. A historic moment indeed, as IANT was given the Award from an eminent body of Educationalist across India and in the process, became the First IT Education Company from Gujarat to receive such an honor.

5

HONORED BY
EDUCATION MINISTER
GUJARAT



6

SMART NATIONAL EDUCATION
LEADERSHIP AWARD CHHATTISGARH



9



7

BROCHURE
LAUNCHING RAJASTHAN



8

BEST NETWORKING
AND IT TRAINING
DELHI



IT INDUSTRY RECOGNITION

- Honored by Education Minister of Gujarat at the Book Launch Event of Leading Gujarati Newspaper – Sandesh
- Received Smart National Education Leadership Award for Digital India. The Award was presented by Dr. Raman Singh, Hon. Chief Minister, Chattisgarh.
- IANT Brochure Launch at Rajasthan by Hon. Education Minister of Rajasthan.
- National Education Excellence Award In "Best Networking And IT Training Institute In India." Honored By Sh. Anil Shastri Son of Late Sh. Lal Bahdur Shastri
- Recipient of the 2015 Leaders Award for achieving Education, Training and Jobs Enterprise of the Year.



IANT Centre Activities



Celebration Glimpses

- Token of Appreciation given to students from IANT for clearing the International Certification Exam.



@IANT
Its Celebration Time



Celebration Glimpses

- Token of Appreciation given to students from IANT for clearing the International Certification Exam.



@IANT
Its Celebration Time

Our Students - Our Brand Ambassadors | IANT



IANSTUDENTS AT THEIR RESPECTIVE CENTERS

IANAT PRESENCE

REGIONAL OFFICE



110+centers Across INDIA

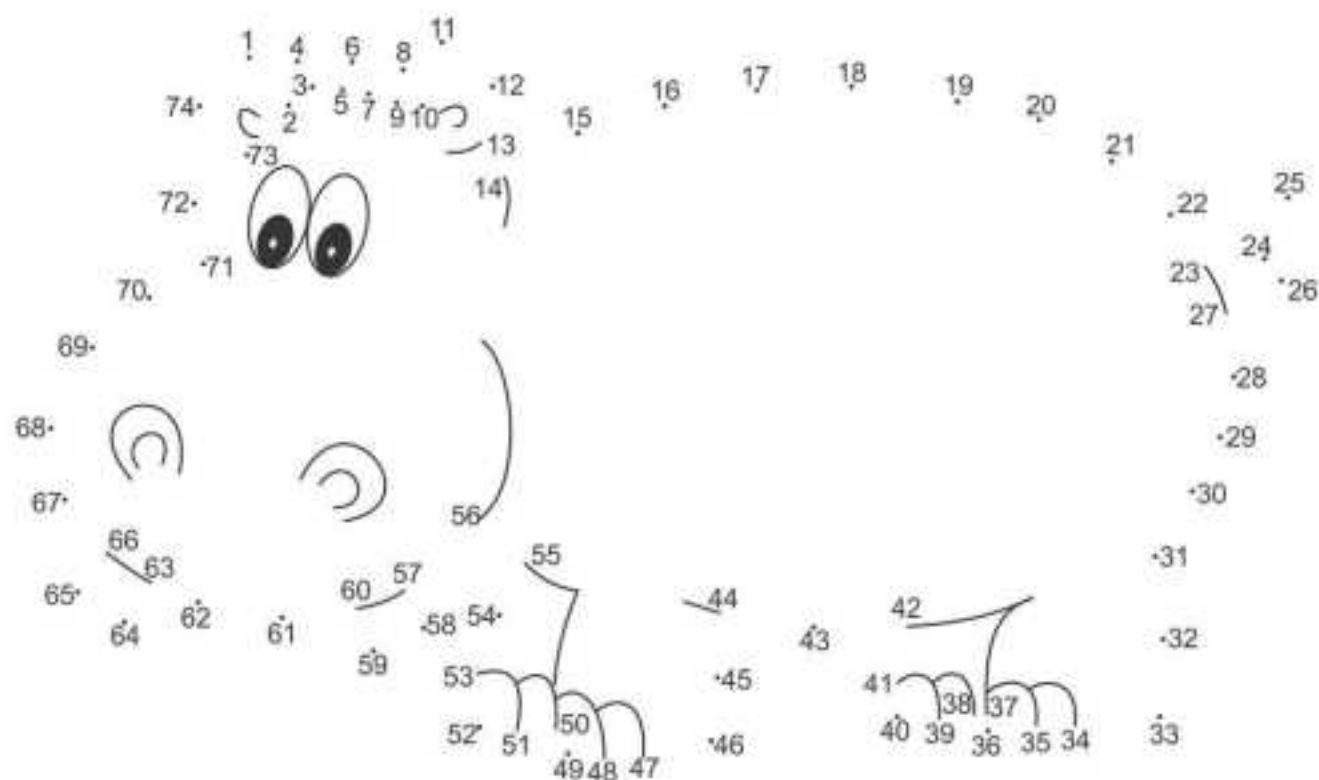
NASSCOM
MEMBER

IANT AFFILIATIONS



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MIND EXERCISES



You are practicing curved words

KANGAROO



Find these words :

HARE
CRAYONS
SNAKE
KANGAROO
SHARK
HAT
FROG
ORANGE
SHOVEL
TRUCK

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