



ATMOS 2016

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CLOUD COMPUTING

Cloud computing is a type of Internet-based computing that provides shared computer processing resources and data to computers and other devices on demand. Cloud computing and storage solutions provide users and enterprises with various capabilities to store and process their data in third-party data centers that may be located far from the user—ranging in distance from across a city to across the world. Cloud computing relies on sharing of resources. As well, it enables organizations to focus on their core businesses instead of spending time and money on computer infrastructure. Cloud providers typically use a "pay as you go" model.

Most prominent platforms in the commercial world:

IBM: OpenStack

Google: Google drive, google apps, laas engine called the Compute Engine. Chromebook and Chromebox run from the cloud too.

Microsoft: Azure (Paas)

Amazon: The biggest player in the market Amazon Web services (AWS), basically invented the laas market. 13 locations host the servers. Including one in Mumbai.

Future prospects:

The movement to cloud computing is the disruptive change that information technology (IT) departments will soon face as cloud computing begins to have an effect on the modern enterprise.



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IT managers must learn how to give as well as take information in this new, shareable environment, while still protecting their company's interests. Innovative companies will take advantage of these new resources, such as cloud computing, and reinvent themselves as unstoppable forces in their markets. Those who don't take advantage of this revolution will become quickly outdated, perhaps out of business.

Cloud Computing is the fastest growing industry in the IT world today and is currently valued at close to 250 billion \$ and is expected to cross 300 billion \$ next year. By 2020, a no-cloud policy will be as rare as a no-internet policy today. By 2019, more than 30 percent of the 100 largest vendors' new software investments will have shifted from cloud-first to cloud-only. More than \$1 trillion in IT spending will be directly or indirectly affected by the shift to cloud during the next five years.

The company for the event is Innovians, which is one of the biggest companies of India in its field. It has already conducted workshops in major IIT's (Kharagpur, Kanpur, Varanasi, etc.).

The topics to be covered are as follows:

DAY 1:

1. Fundamentals of Cloud Computing – BASIC
2. What is Cloud Computing? Why it matters?
3. Traditional IT Infrastructure
4. Cloud Infrastructure and Cloud Advantage
5. Examples of Cloud Advantage
6. Cloud Companies
7. Examples of Cloud Services
8. Use Cases
9. Cloud Segments: IaaS, PaaS, SaaS



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10. Cloud Deployment Models
11. Cloud Security
12. Cloud Computing with AMAZON WEB SERVICES (AWS) -ADVANCED
13. AWS Fundamentals
14. Review of all AWS Services
15. Amazon Smile Storage Service (S3)
16. Amazon Elastic Compute Cloud (EC2)
17. Amazon Elastic Block Storage (EBS)
18. Amazon Elastic Ili-Address Service

DAY 2:

1. Cloud Computing with Openstack - ADVANCED
2. Openstack Fundamentals
3. Review of All Openstack services
4. Keystone
5. Glance
6. Cinder
7. Nova
8. Swift
9. Ceilometers
10. Deployment of Open stack within 10 minutes.
11. Certificate of Merit for all the workshop participants from BITS-PILANI Hyderabad Campus.
12. At the end of this workshop, a small competition will be organized among the participating students and winners will be awarded with a 'Certificate of Excellence'.



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A talk will also be organized by Microsoft Industry specialists on the Azure platform on conclusion of the workshop.

Participation Fee : **1200/-** only

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