

CLOUD COMPUTING

Curriculum

Duration: - 45 Days



1. Introduction to Cloud

- What is cloud computing?
- Concept of Cloud
- Service models of cloud (Saas, Paas, Iaas)
- Limitations and Flexibility of Cloud
- Types of Cloud (Private, Public, Hybrid, Community)

2. Structure of cloud

- Cloud Architecture
- Database structure of cloud
- File system in cloud: GFS, HDFS, Big Table, HBase & Dynamo
- Data migration in cloud, Streaming in cloud
- Brief introduction to Platforms supported by cloud

3. Security issues in cloud computing

- Security Challenges in Cloud computing
- Cloud Security Architecture
- Vulnerability assessment tool for cloud
- Authorization and Authentication
- QoS of cloud computing
- Monitoring the cloud environment

4. Virtualization

- Introduction to Virtualization
- Utility of Virtualization
- Hardware requirements for Virtualization
- Virtualization Software in market

CLOUD PRACTICAL STUDY

5. Google App Engine

- Google App Engine Overview
- Google App Engine architecture
- GAE Service
- Environments for Google App Engine
- Installation of Google App Engine
- Data Storage in GAE

- Implementation of Google Application
- Application Deployment in Google App Engine Cloud

6. Apache Hadoop

- Introduction to Hadoop
- Hadoop Architecture
- Hadoop tools Installation
- Hadoop Application Programming Interface
- Practical Working of Hadoop

7. Amazon Cloud

- Introduction to products of Amazon
- Amazon Web Services
- Amazon EC2, S3
- Amazon Map Reduce
- Architecture of AWS
- Application Development in Amazon Cloud
- Deployment of apps in Amazon Cloud

8. Working with other clouds

- Microsoft Azure, Google Docs, Fujitsu
- TPS5 Oracle Cloud And others



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