

Cloud Computing

Cloud computing is a general term for the delivery of hosted services over the internet. Cloud computing enables companies to consume a compute resource, such as a virtual machine (VMs) storage or an application, as a utility -- just like electricity -- rather than having to build and maintain computing infrastructures in house.

1. Data Centre foot prints & Concepts
2. Introduction To cloud
 - a. Virtualization concepts
 - i. Types of Virtualization & its benefits
 - ii. Introduction to Various Virtualization OS
 1. Vmware , KVM etc
 - iii. HA/DR using Virtualization
 - iv. Moving VMs
 - v. SAN backend concepts
 - b. Cloud Fundamentals
 - i. Cloud Building Blocks
 - ii. Understanding Public & Private cloud environments
3. Cloud as IaaS
 - a. Private Cloud Environment
 - i. Basics of Private cloud infrastructure
 - ii. QRM cloud demo
 - b. Public Cloud Environment
 - i. Understanding & exploring Amazon Web services
 - ii. Managing and Creating Amazon EC2 instances
 - iii. Managing and Creating Amazon EBS volumes
 - iv. Tata Cloud details & demo
 - c. Managing Hybrid Cloud environment
4. Setting up your own Cloud
 - a. How to build private cloud using open source tools
 - b. Understanding various cloud plugins
 - c. Setting up your own cloud environment
 - i. Autoprovisioning
 - ii. Custom images
 - iii. Integrating tools like Nagios
 - d. Integration of Public and Private cloud
5. Future directions
 - a. Cloud Domain and scope of work
 - b. Cloud as PaaS, SaaS
 - c. Cloud Computing Programming Introduction
 - d. Trends and market of cloud

