NetTech India

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Post Graduate Certification Program in

CLOUD COMPUTING

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CERTIFICATIONS OPTIONS AVAILABLE

ABOUT US

NetTech India Training Institute offers a high-quality learning experience in the field of IT training to train students on brand new technologies and train them to deliver the desired results with commercially relevant and re-organized technical skills.

The probability of achieving your dream job will keep on increasing day by day once you complete a course in **NetTech India**. We also focus on improving soft skills in terms of communication, leadership, teamwork, external appearance, and attitude which helps everyone to be professional in all the aspects of their career.

25% Theory

75% Practicals

ABOUT
CLOUD COMPUTING

Cloud computing is the delivery of computing services—servers, storage, databases, networking, software, analytics & moreover the Internet ("the cloud"). Companies offering these computing services are called cloud providers and typically charge for cloud computing services based on usage, similar to how you are billed for water or electricity at home. You are already in the cloud when you watch movies online, TV online, send emails, create documents online, store your pc and mobile data online and many more things being as an individual or working in organizations handling company's data centre
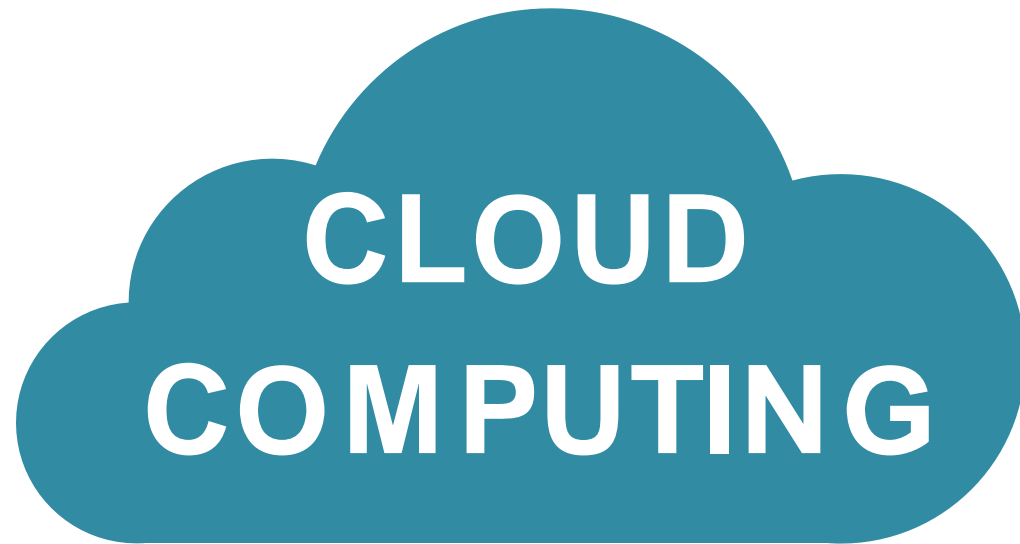
BENEFITS OF
CLOUD COMPUTING

- Career Growth - Higher Pay & Position

- Encourages professional Development

- Enriches self-image and Reputation

- Enhances professional Credibility.

- Abundant Job Opportunities

- Used In Many Industries

- Global Recognition

- Secure and Flexible

- 50+ Case Studies

- 50+ Projects

COURSE CONTENT

- **CCNA**
- **RHCE**
- **AWS**
- **CEH**
- **AZURE**

CLOUD COMPUTING

CCNA CONTENT

1 Network Fundamentals

    1.   Explain the role and function of network components

      a.   Routers

      b.   L2 and L3 switches

      c.   Next-generation firewalls and IPS

      d.   Access points

      e.   Controllers (Cisco DNA Center and WLC)

      f.   Endpoints

      g.   Servers

    2.   Describe characteristics of network topology architectures

      a.   2 tier

      b.   3 tier

      c.   Spine-leaf

      d.   WAN

      e.   Small office/home office (SOHO)

      f.   On-premises and cloud

3. Compare physical interface and cabling types
    a. Single-mode fiber, multimode fiber, copper
    b. Connections (Ethernet shared media and point-to-point)
    c. Concepts of PoE

4. Identify interface and cable issues (collisions, errors, mismatch duplex, and/or speed)

5. Compare TCP to UDP

6. Configure and verify IPv4 addressing and subnetting

7. Describe the need for private IPv4 addressing

8. Configure and verify IPv6 addressing and prefix

9. Compare IPv6 address types
    a. Global unicast
    b. Unique local
    c. Link-local
    d. Anycast
    e. Multicast
    f. Modified EUI 64

10. Verify IP parameters for Client OS (Windows, Mac OS, Linux)

11. Describe wireless principles
   a.   Nonoverlapping Wi-Fi channels
   b.   SSID
   c.   RF
   d.   Encryption

12. Explain virtualization fundamentals (virtual machines)

1.12 Explain virtualization fundamentals (virtual machines)

2 Network Access

1. Configure and verify VLANs (normal range) spanning multiple switches
   a.   Access ports (data and voice)
   b.   Default VLAN
   c.   Connectivity

2. Configure and verify interswitch connectivity
   a.   Trunk ports
   2.2.b 802.1Q
   2.2.c Native VLAN

2.3 Configure and verify Layer 2 discovery protocols (Cisco
Discovery Protocol and LLDP)

4. Configure and verify (Layer 2/Layer 3) EtherChannel (LACP)

5. Describe the need for and basic operations of Rapid PVST+ Spanning Tree Protocol and identify

basic operations

    a.   Root port, root bridge (primary/secondary), and other port names

    b.   Port states (forwarding/blocking)

    c.   PortFast benefits

6. Compare Cisco Wireless Architectures and AP modes

7. Describe physical infrastructure connections of WLAN components
(AP,WLC, access/trunk ports, and LAG)

8. Describe AP and WLC management access connections
(Telnet, SSH, HTTP,HTTPS, console, and TACACS+/RADIUS)

9. Configure the components of a wireless LAN access for client connectivity using GUI
only such as WLAN creation, security settings, QoS profiles, and advanced WLAN
settings

3 IP Connectivity

1. Interpret the components of the routing table
   a. Routing protocol code
   b. Prefix
   c. Network mask
   d. Next hop
   e. Administrative distance
   f. Metric
   g. Gateway of last resort

2. Determine how a router makes a forwarding decision by default
   a. Longest match
   b. Administrative distance
   c. Routing protocol metric

3. Configure and verify IPv4 and IPv6 static routing
   a. Default route
   b. Network route
   c. Host route
   d. Floating static

4. Configure and verify single area OSPFv2
    a.   Neighbor adjacencies
    b.   Point-to-point
    c.   Broadcast (DR/BDR selection)
    d.   Router ID

5. Describe the purpose of first hop redundancy protocol

3 IP Services

1. Configure and verify inside source NAT using static and pools

2. Configure and verify NTP operating in a client and server mode

3. Explain the role of DHCP and DNS within the network

4. Explain the function of SNMP in network operations

5. Describe the use of syslog features including facilities and levels

6. Configure and verify DHCP client and relay

7. Explain the forwarding per-hop behavior (PHB) for QoS such as classification, marking, queuing, congestion, policing, shaping

8. Configure network devices for remote access using SSH

9. Describe the capabilities and function of TFTP/FTP in the network

5 Security Fundamentals

1. Define key security concepts (threats, vulnerabilities, exploits, and mitigation techniques)

2. Describe security program elements (user awareness, training, and physical access control)

3. Configure device access control using local passwords

4. Describe security password policies elements, such as management, complexity, and password alternatives (multifactor authentication, certificates, and biometrics)

5. Describe remote access and site-to-site VPNs

6. Configure and verify access control lists

7. Configure Layer 2 security features (DHCP snooping, dynamic ARP inspection, and port security)

8. Differentiate authentication, authorization, and accounting concepts

9. Describe wireless security protocols (WPA, WPA2, and WPA3)

10. Configure WLAN using WPA2 PSK using the GUI

6 Automation and Programmability

1. Explain how automation impacts network management

2. Compare traditional networks with controller-based networking

3. Describe controller-based and software defined architectures (overlay, underlay, and fabric)

   a.   Separation of control plane and data plane

   b.   North-bound and south-bound APIs

4. Compare traditional campus device management with Cisco DNA Center enabled device management

5. Describe characteristics of REST-based APIs (CRUD, HTTP verbs, and data encoding)

6. Recognize the capabilities of configuration management mechanisms Puppet, Chef, and Ansible

7. Interpret JSON encoded data

And Many More...

RHCE CONTENT

Red Hat System Administration I - RH124

1 Access the command line

Log in to a Linux system and run simple commands using the shell.

2 Manage files from the command line

Copy, move, create, delete, and organize files from the bash shell prompt.

3 Get help in Red Hat Enterprise Linux

Resolve problems by using online help systems and Red Hat support utilities

4 Create, view, and edit text files

Create, view, and edit text files from command output or in an editor.

5 Manage local Linux users and groups

Manage local Linux users and groups, and administer local password . policies.

6 Control access to files with Linux file system permissions

Set Linux file system permissions on files and interpret the security effects of different permission settings.

7 Monitor and manage Linux processes

Obtain information about the system, and control processes running on it.

8 Control services and daemons

Control and monitor network services and system daemons using system

9 Configure and secure OpenSSH service

Access and provide access to the command line on remote systems securely using OpenSSH

10 Analyze and store logs

Locate and accurately interpret relevant system log files for troubleshooting purposes

11 Manage Red Hat Enterprise Linux networking

Configure basic IPv4 networking on Red Hat Enterprise Linux systems

12 Archive and copy files between systems

Archive files and copy them from one system to another.

13 Install and update software packages

Download, install, update, and manage software packages from Red Hat and yum package repositories.

14 Access Linux file systems

Access and inspect existing file systems on a Red Hat Enterprise Linux system.

15 Use virtualized systems

Create and use Red Hat Enterprise Linux virtual machines with KVM and libvirt.

16 Comprehensive review

Practice and demonstrate the knowledge and skills learned in this course.

And Many More...

Red Hat System Administration II - RH134

1 Automate installation with Kickstart

Automate the installation of Red Hat Enterprise Linux systems with Kickstart.

2 Use regular expressions with grep

Write regular expressions that, when partnered with grep, will allow you to quickly isolate or locate content within text files.

3 Create and Edit text files with vim

Introduce the vim text editor, with which you can open, edit, and save text files.

4 Schedule future Linux tasks

Schedule tasks to automatically execute in the future.

5 Manage priority of Linux processes

Influence the relative priorities at which Linux processes run

6 Control access to files with access control lists (ACL)

Manage file security using POSIX access control lists.

7   Manage SELinux security

Manage the Security Enhanced Linux (SELinux) behavior of a system to keep it secure in case of a network service compromise.

8   Connect to network-defined users and groups

Configure systems to use central identity management services.

9   Add disks, partitions, and file systems to a Linux system

Manage simple partitions and file systems.

10   Manage logical volume management (LVM) storage

Manage logical volumes from the command line.

11   Access networked attached storage with network file system (NFS)

Access (secure) NFS shares.

12   Access networked storage with SMB

Use autofs and the command line to mount and unmount SMB file systems.

13   Control and troubleshoot the Red Hat Enterprise Linux boot process

Limit network communication with firewall

Configure a basic firewall.

14   Comprehensive review

Practice and demonstrate knowledge and skills learned in this course.

And Many More...

Red Hat System Administration III - RHCE – Exams (RH254)

1 Control services and daemons

Review how to manage services and the boot-up process using systemctl

2 Manage IPv6 networking

Configure and troubleshoot basic IPv6 networking on Red Hat Enterprise Linux systems

3 Configure link aggregation and bridging

Configure and troubleshoot advanced network interface functionality including bonding, teaming, and local software bridges

3 Control network port security

Permit and reject access to network services using advanced SELinux and firewalld filtering techniques

4 Manage DNS for servers

Set and verify correct DNS records for systems and configure secure DNS caching

5 Configure email delivery

Relay all email sent by the system to an SMTP gateway for central Delivery

6 Provide block-based storage

Provide and use networked iSCSI block devices as remote disks

7 Provide file-based storage

Provide NFS exports and SMB file shares to specific systems and users

8 Configure MariaDB databases

Provide a MariaDB SQL database for use by programs and database administrators

9 Provide Apache HTTPD web service

Configure Apache HTTPD to provide Transport Layer Security (TLS)-enabled websites and virtual hosts

10 Write Bash scripts

Write simple shell scripts using Bash

11 Bash conditionals and control structures

Use Bash conditionals and other control structures to write more sophisticated shell commands and scripts.

12 Configure the shell environment

Customize Bash startup and use environment variables, Bash aliases, and Bash functions

13 Linux containers preview

Preview the capabilities of Linux containers and other related technologies in RedHat Enterprise Linux7

14 Comprehensive review

Practice and demonstrate knowledge and skills learned in Red Hat System Administration III

And Many More...

AWS CONTENT

1. Introduction to AWS
- What Is Cloud Computing?
- AWS Fundamentals
- AWS Cloud Computing Platform

2. Amazon Simple Storage Service (Amazon S3) and Amazon Glacier Storage
- Introduction
- Object Storage versus Traditional Block and File Storage Amazon
- Simple Storage Service (Amazon S3) Basics Buckets
- Amazon S3 Advanced Features
- Amazon Glacier
- Summary

3. AWS Identity and Access Management (IAM)
- Principals
- Authentication
- Authorization Other
- Key Features
- Summary

4. Amazon Elastic Compute Cloud (Amazon EC2) and Amazon Elastic Block

- Store (Amazon EBS)
- Introduction
- Amazon Elastic Compute Cloud (Amazon EC2)
- Amazon Elastic Block Store (Amazon EBS)
- Summary

5. Amazon Virtual Private Cloud (Amazon VPC)

- Introduction
- Amazon Virtual Private Cloud (Amazon VPC)
- Subnets
- Route Tables
- Internet Gateways
- Dynamic Host Configuration Protocol (DHCP) Option Sets
- Elastic IP Addresses (EIPs)
- Elastic Network Interfaces (ENIs)
- Endpoints
- Peering Security Groups
- Network Access Control Lists (ACLs)

6. Network Address Translation (NAT) Instances and NAT Gateways

- Virtual Private Gateways (VPGs),
- Customer Gateways (CGWs), and
- Virtual Private
- Networks (VPNs)
- Summary

7. Elastic Load Balancing, Amazon Cloud Watch, and Auto Scaling

- Introduction
- Elastic Load Balancing,
- Application Load Balancing
- Amazon Cloud Watch
- Auto Scaling
- Summary

8. Databases and AWS

- Database Primer
- Amazon Relational Database Service (Amazon RDS)
- Amazon Redshift
- Amazon Dynamo DB
- Summary

9. SQS, SWF, and SNS

- Amazon Simple Queue Service (Amazon SQS)
- Amazon Simple Workflow Service (Amazon SWF)
- Amazon Simple Notification Service (Amazon SNS)
- Summary

10. Domain Name System (DNS) and Amazon Route 53

- Domain Name System (DNS)
- Amazon Route 53 Overview
- Summary

11. Amazon Elasti Cache

- Introduction
- In-Memory Caching
- Amazon Elasti Cache
- Summary

12. Additional Key Services

- Introduction
- Aws Lambda
- Aws Cloud Front
- Redshift
- Kinesis
- ECS
- Directory Services
- Storage and Content Delivery
- Security
- DevOps

13. Security on AWS

- Introduction
- Shared Responsibility Model
- AWS Compliance Program

And Many More...

CEH CONTENT

- Introduction to Ethical Hacking
- Foot printing and Reconnaissance
- Scanning Networks
- Enumeration
- System Hacking
- Vulnerability analysis
- Malware Threats
- Sniffing
- Social Engineering
- Denial-of-Services
- Session Hijacking
- Hacking Web servers
- Hacking Web Applications
- SQL Injections
- Hacking Wireless Networks

- Hacking Mobile Platforms
- Evading IDS, Firewalls, and Honey pots
- IoT Hacking
- Cloud Computing
- Cryptography

And Many More...

AZURE CONTENT

Module 1: Identity
- Azure Active Directory
- Users and Groups

Module 2: Governance and Compliance
- Subscriptions and Accounts
- Azure Policy
- Role-based Access Control (RBAC)

Module 3: Azure Administration
- Azure Resource Manager
- Azure Portal and Cloud Shell
- Azure PowerShell and CLI
- ARM Templates

Module 4: Virtual Networking
- Virtual Networks
- IP Addressing
- Network Security groups
- Azure Firewall
- Azure DNS

Module 5: Intersite Connectivity
- VNet Peering
- VPN Gateway Connections
- ExpressRoute and Virtual WAN

Module 6: Network Traffic Management
- Network Routing and Endpoints
- Azure Load Balancer
- Azure Application Gateway

Module 7: Azure Storage
- Storage Accounts
- Blob Storage
- Storage Security
- Azure Files and File Sync
- Managing Storage

Module 8: Azure Virtual Machines
- Virtual Machine Planning
- Creating Virtual Machines
- Virtual Machine Availability
- Virtual Machine Extensions

Module 9: Serverless Computing

- Azure App Service Plans
- Azure App Service
- Container Services
- Azure Kubernetes Service

Module 10: Data Protection

- File and Folder Backups
- Virtual Machine Backups

Module 11: Monitoring

- Azure Monitor
- Azure Alerts
- Log Analytics
- Network Watcher

And Many More..

WHO CAN LEARN ?

- Anyone who wants to build a career in Cloud Computing

- Anyone interested in gaining knowledge about it

- Students who are currently in college or university

CAREER OPPORTUNITIES

- Network Specialist
- Network Technician
- Network Administrator
- Network Analyst
- Network Manager
- Network Engineer
- Network Solutions Architect
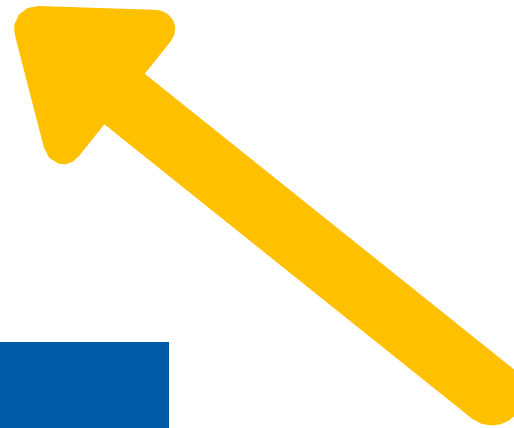
And Many More...

OUR RECRUITERS

and Many More....

FACILITIES OFFERED

- Practical Training on Live Projects

- Complete Placement Assistance

- Interview Preparation

- Global Certification

- Fully functional labs

- Online / Offline Training

- Study Materials

- Expert Level Industry Recognized Training

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