



# MAKE A CAREER IN CLOUD COMPUTING

# About NextGen:

**About NextGen Education Foundation-** An Institute of Open Learning NextGen Education Foundation is formed by the Industry Experts to run short term industry oriented vocational diploma courses that offer certification in a number of fields and professions that will provide employment. These courses will be on latest technologies in growth sectors such as Industry 4.0 automation integrated with Internet of Things (IoT), Cloud Computing, Analytics, Artificial Intelligence (AI) and Machine Learning at Discrete Manufacturing, Automobile, Construction, and Mechatronics.

The objective of these certificate programs is to create 'industry ready' resources who can be gainfully employed upon completion of these courses. The certificate programs will give students a chance to refine their essential skills and develop a cutting edge thus increasing their industry competence, confidence, and employability.

NextGen Education will work with schools, higher education institutions and companies to define course structures, to digitize their contents with use cases and case studies, which has until now been unaffordable due to the usual high cost of digitization. Offer a high-quality teaching method and interactive videos that make students want to learn differently.



# Cloud Computing Career Programs

**NextGen Education** is Pune's Best Education Foundation, offers various career program in the domain of Cloud Computing, ERP-SAP, Tableau, Power BI, Business Analytics, Business Intelligence (BI), Artificial Intelligence (AI) & Machine Learning (ML) and Tally.

After a lot of research & consultation with industry-experts, we designed 2 different career programs **Diploma in Cloud Computing & Advanced Diploma in Cloud Computing** especially for job seekers & professionals who wish to make career in cloud computing domain. These programs will run for 6 & 12 months respectively and offers combination of live lectures and online sessions to teach you Basic & Advanced IT Network Management, Multi -Vendor Operating Systems Management, Multi-Vendor Cloud technologies, DevOps tool and Cyber security followed by Industrial internship/ project with our partners company.

To boost employability we also bundled best industrial practice sessions & Employability Development Program (Soft Skills) as a part of Diploma & Advanced Diploma in Cloud Computing.

**Diploma in Cloud Computing** is a 6 months unique placement supported program which will lead to multiple job opportunities through our rigours placement drive within our 500+ client Base.

**Advanced Diploma in Cloud Computing** is a specialized 12 months trimester **Global Certification** program supported with pre-placement offer of Rs.3.5 LPA subject to eligibility and performance during the program. This unique placement ecosystem will easily help candidate to step-into our partners' company subject to his/her performance during the program. However, 500+ client base will also provide them multiple opportunities through our placement drive.

The global cloud computing market size is projected to grow at a CAGR of 17.9% during the forecast period to reach USD 1,240.9 billion by 2027 from an estimated USD 545.8 billion in 2022.

The three big global cloud giants—Amazon Web Services (AWS) Microsoft and Google—continued to consolidate and grow their positions as cloud market-share leaders in the third quarter of 2022, according to data from IT market research firm Synergy Research Group.

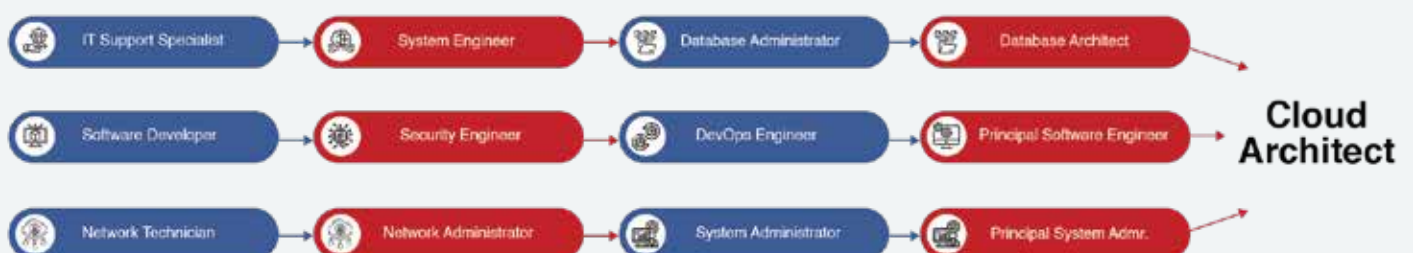
AWS, Microsoft, Google Won 66% Market Share.

There are different verticals started adopting cloud computing services which increases the demand of resources in the said domain.

- **BFSI**
- **Telecommunication**
- **IT & ITES, Government & Public Sector**
- **Retail & Consumer Goods**
- **Manufacturing, Energy & Utility**
- **Media & Entertainment**
- **Healthcare & Life Science**

Source - “Markets & Markets ”

### Career Paths to Cloud Architect



# Diploma / Advanced Diploma in **Cloud Computing**

## Eligibility:

- Candidate must possess a Bachelor's degree with at least 55% with Basic computer knowledge.
- Candidate must require to have Good English written & verbal communication skills.
- Working Professionals aspiring to achieve Global Certifications.
- Candidate interested in one technology module can also join part time batches.

## Duration:

- Diploma in Cloud Computing (6 Months)
- Advanced Diploma in Cloud Computing (12 Months - Trimester)

## Selection Criteria:

- Strictly based on the merit, written test and personal Interview

## Highlights:

- Specialized Diploma & Advanced Diploma in Cloud Computing designed by Industry Experts
- Pre-placement Offer of Rs.3.5 LPA to Advanced Diploma in Cloud Computing
- Exposure to Hands-on Labs during the training
- Employability Enhancement Program (Soft Skills)
- Global Certifications to Advanced Diploma in Cloud Computing
- Industry Exposure through Internship / Projects
- 100% Job Assistance with 500+ companies



### Networking Fundamentals:

- Explain the role and function of network components
- Describe characteristics of network topology architectures
- Compare physical interface and cabling types
- Identify interface and cable issues (collisions, errors, mismatch duplex, and/or speed)
- Compare TCP to UDP
- Configure and verify IPv4 addressing and sub netting
- Describe the need for private IPv4 addressing
- Configure and verify IPv6 addressing and prefix
- Compare IPv6 address types
- Verify IP parameters for Client OS (Windows, Mac OS, Linux)
- Describe wireless principles
- Explain virtualization fundamentals (virtual machines)
- Describe switching concepts



- Types Of Networks - LAN, MAN ,WAN + Peer to Peer,
- Client-Server + Network Media & Hardware - Coaxial, UTP, STP, Connectivity
- Internet Protocol & Addressing, Describe Classless IP Addresses
- Public & Private IP, Reserved IP Addresses Concept Of Subnet mask
- Sub netting of Class A, B, C. VLSM, CIDR, Route Summarization
- Introduction To Router, Types- Modular & Fixed, CISCO Series, Model
- WIC-1T/2T , NM8S , 4S, Cards & Ports, Port IDs
- Internal Components Of a Router & Switches Router boot sequence and internal configuration, backup
- Recovery and IOS upgrade Routing Table, Metric, Routing Loops, Types of Routing, Routing protocol code
- Static & Default Static Routing
- Configuration of routing protocol RIP V2, EIGRP, OSPF and BGP
- TCP/IP Protocol Suit, Framing, CRC, Runts, Giants, Dropped packets, Broadcast & Collision Domain, L2 & L3 Broadcasts, Benefits Of VLAN, Vlan Configuration Modes & Functions VLAN, VLAN Access & Trunk Port, DTP, Encapsulation, VTP Modes
- Describe Function Of Switch, CAM Table, Switching Loops Issues, Explain STP, RSTP, Port states & roles
- Standard, Extended, & Named Access List, Explain Reflexive Access Control List
- Accessing Network Storage with Network File System (NFS). Accessing Network Storage with SMB Controlling and Troubleshooting the Red Hat Enterprise Linux Boot Process
- Limiting Network Communication with firewall

# MCSA: Windows Server 2016

## **Module 1: Installation, Storage, and Compute with Windows Server 2016**

- Install Windows Servers in Host and Compute Environments
- Implement Storage Solutions
- Implement Hyper-V
- Implement Windows Containers
- Implement High Availability
- Maintain and Monitor Server Environments

## **Module 2: Networking with Windows Server 2016**

- Implement Domain Name System (DNS)
- Implement DHCP and IPAM
- Implement Network Connectivity and Remote Access Solutions
- Implement an Advanced Network Infrastructure

## **Module 3: Identity with Windows Server 2016**

- Install and Configure Active Directory Domain Services (AD DS)
- Manage and Maintain AD DS
- Create and Manage Group Policy
- Implement Active Directory Certificate Services (AD CS)
- Implement Identity Federation and Access Solutions



# RHCSA: Red Hat System Administration - I

- Module 1:** Accessing the Command Line
- Module 2:** Managing Files from the Command Line
- Module 3:** Getting Help in Red Hat Enterprise Linux
- Module 4:** Creating, Viewing, and Editing Text Files
- Module 5:** Managing Local Linux Users and Groups
- Module 6:** Controlling Access to files with Linux File system Permissions
- Module 7:** Configure and secure OpenSSH service
- Module 8:** Analyze and store logs
- Module 9:** Managing Red Hat Enterprise Linux Networking
- Module 10:** Archiving and Copying Files between Systems
- Module 11:** Installing and Updating Software Packages
- Module 12:** Accessing Linux File Systems
- Module 13:** Using Virtualized Systems

# RHCSA: Red Hat System Administration - II

- Module 1:** Automating Installation with Kickstart
- Module 2:** Using Regular Expressions with Grep
- Module 3:** Creating and Editing Text Files with Vim
- Module 4:** Scheduling Future Linux Tasks
- Module 5:** Managing Priority of Linux Processes
- Module 6:** Controlling Access to Files with Access Control Lists
- Module 7:** Managing SELinux Security
- Module 8:** Connecting to Network-defined Users and Groups
- Module 9:** Adding disks, Partitions, and File Systems to a Linux System
- Module 10:** Managing Logical Volume Management (LVM) Storage
- Module 11:** Accessing Network Storage with Network File System
- Module 12:** Accessing Network Storage with SMB
- Module 13:** Controlling and Troubleshooting Red Hat Enterprise Linux Boot Process
- Module 14:** Limiting Network Communication with firewallld

**Module 1:** Introduction to Cloud Computing and AWS

**Module 2:** Elastic compute and storage volumes

**Module 3:** Introduction to elastic load balancer

**Module 4:** Virtual private cloud

**Module 5:** Storage - Simple storage service (S3)

**Module 6:** Databases and in-memory data stores

**Module 7:** Management and application services

**Module 8:** Access management and monitoring services

**Module 9:** Automation and configuration management

**Module 10:** AWS migration

## Microsoft Azure Administrator

**Module 1:** Introduction to Cloud computing and Azure Administrator

**Module 1:** Identity

**Module 2:** Governance and Compliance

**Module 3:** Azure Administration

**Module 4:** Virtual Networking

**Module 5:** Intersite Connectivity

**Module 6:** Network Traffic Management

**Module 7:** Azure Storage

**Module 8:** Azure Virtual Machines

**Module 9:** Serverless Computing

**Module 10:** Data Protection & Monitoring

## Employability Development Program (Soft Skills)

- Soft Skills- Basic Etiquettes, Communication & Email Writing Skills
- Mock Interview & Feedback -Technical & HR
- Aptitude & Test Series
- Overview of Professional Practices

# Semester II & III

\*Applicable only to Advanced Diploma in Cloud Computing

## II Semester

- Ethical Hacking
- Fundamentals of DevOps
- RHCE with Ansible
- ITIL 4 Foundations
- AWS Global Certification
- Red Hat Linux Global Certification
- Ethical Hacking Global Certification

## III Semester

- Industrial Internship/Project

## Industry Collaboration



## Group of Companies



**AUTODIRECT**



"Approved Training Partner of NSDC"

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