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PG CERTIFICATION IN NETWORKING

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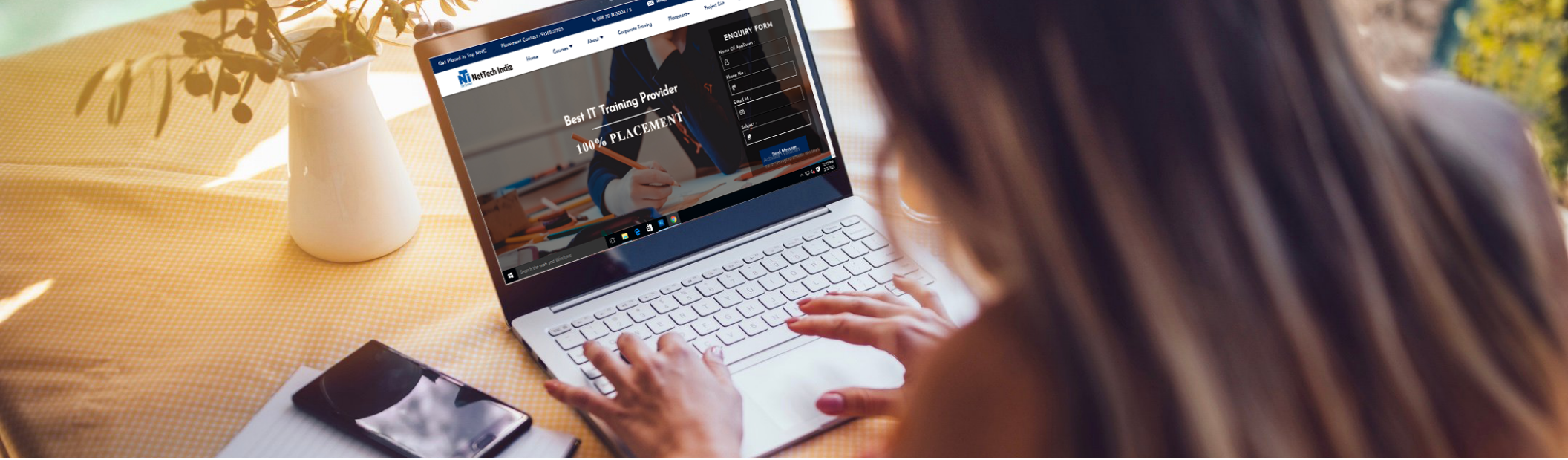

ABOUT US

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

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ABOUT NETWORKING

NetTech has designed Expert Diploma in Networking course in Mumbai that will prepare the students for an associate level job in the IT sector. The course will include everything related to networking. You will learn about basic concepts of networking, CCNA, Cloud, RedHat, MCSA and CEH. This expert diploma will help you to become an IT professional. This newly developed diploma will provide you an overview of the latest networking technology.

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BENEFITS OF NETWORKING

- 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
- 150+ Case Studies
- 50+ Projects

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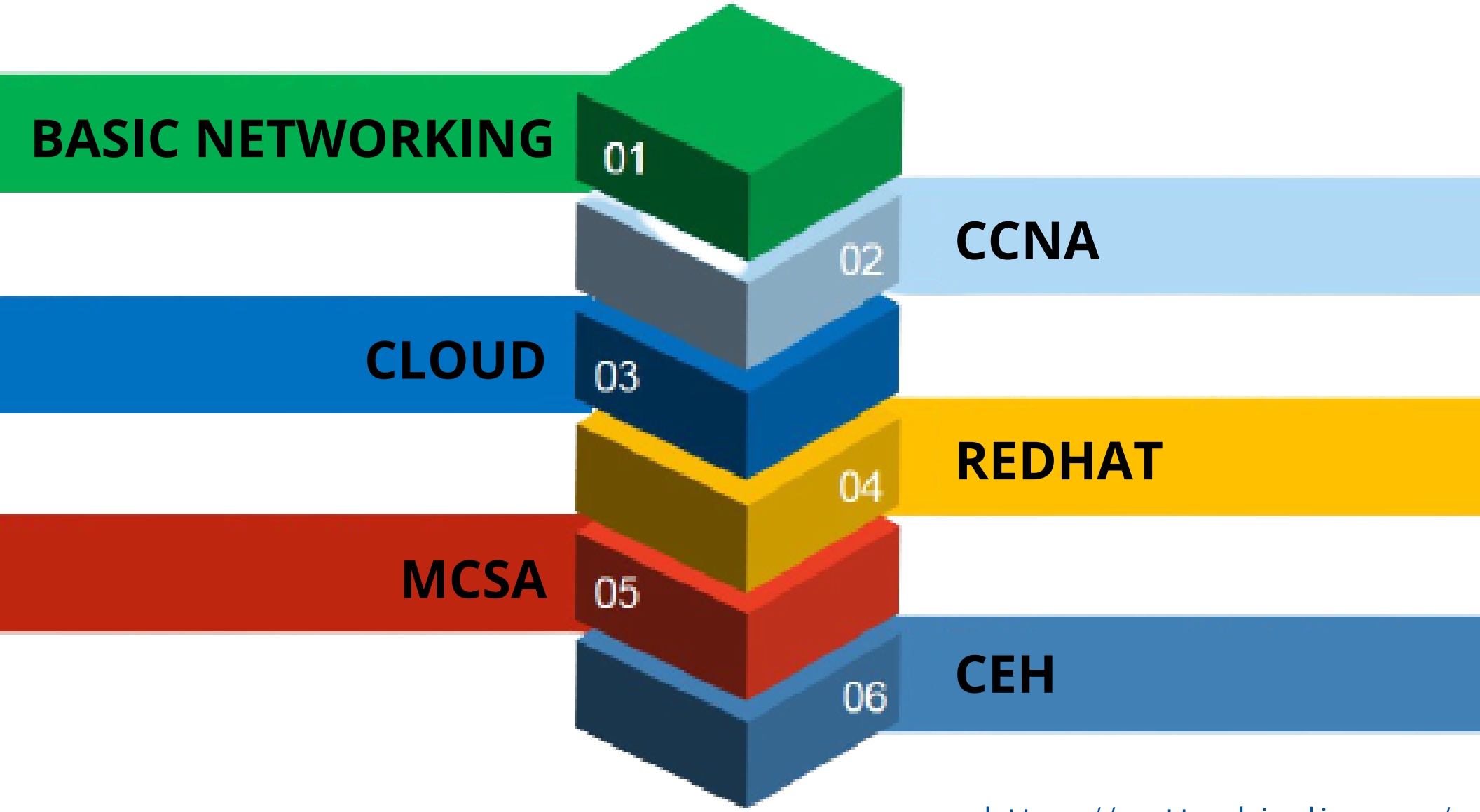
MODULES OF PG CERTIFICATION IN NETWORKING



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NETWORKING

1 **Network Fundamentals**

- Compare and contrast OSI and TCP/IP models
- Compare and contrast TCP and UDP protocols
- Describe the impact of infrastructure components in an enterprise network

a. Firewalls
b. Access points
c. Wireless controllers

2 **Compare and contrast network topologies**

- Star
- Mesh
- Hybrid

3 **Select the appropriate cabling type based on implementation requirements**

4 **Configure, verify, and troubleshoot IPv4 addressing and subnetting.**

5 **Compare and contrast IPv4 address types**

- Unicast
- Broadcast
- Multicast

6 **Describe the need for private IPv4 addressing**

7 **Identify the appropriate IPv6 addressing scheme to satisfy addressing requirements in a LAN/WAN environment**

8 **Compare and contrast IPv6 address types**

- Global unicast
- Unique local
- Link local
- Multicast
- Modified EUI 64
- Autoconfiguration
- Anycast

And Many More....

CCNA

1 Network Fundamentals

1.1 Explain the role and function of network components

1.1.a Routers

1.1.b L2 and L3 switches

1.1.c Next-generation firewalls and IPS

1.1.d Access points

1.1.e Controllers (Cisco DNA Center and WLC)

1.1.f Endpoints

1.1.g Servers

1.2 Describe characteristics of network topology architectures

1.2.a 2 tier

1.2.b 3 tier

1.2.c Spine-leaf

1.2.d WAN

1.2.e Small office/home office (SOHO)

1.2.f On-premises and cloud

1.3 Compare physical interface and cabling types

1.3.a Single-mode fiber, multimode fiber, copper

1.3.b Connections (Ethernet shared media and point-to-point)

1.3.c Concepts of PoE

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

1.5 Compare TCP to UDP

1.6 Configure and verify IPv4 addressing and subnetting

1.7 Describe the need for private IPv4 addressing

1.8 Configure and verify IPv6 addressing and prefix

1.9 Compare IPv6 address types

1.9.a Global unicast

1.9.b Unique local

1.9.c Link-local

1.9.d Anycast

1.9.e Multicast

1.9.f Modified EUI 64

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

1.11 Describe wireless principles

1.11.a Nonoverlapping Wi-Fi channels

1.11.b SSID

1.11.c RF

1.11.d Encryption

1.12 Explain virtualization fundamentals (virtual machines)

1.12 Explain virtualization fundamentals (virtual machines)

2 Network Access

2.1 Configure and verify VLANs (normal range) spanning multiple switches

2.1.a Access ports (data and voice)

2.1.b Default VLAN

2.1.c Connectivity

2.2 Configure and verify interswitch connectivity

2.2.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)

2.4 Configure and verify (Layer 2/Layer 3) EtherChannel (LACP)

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

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

2.5.b Port states (forwarding/blocking)

2.5.c PortFast benefits

2.6 Compare Cisco Wireless Architectures and AP modes

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

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

2.9 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

3.1 Interpret the components of the routing table

3.1.a Routing protocol code

3.1.b Prefix

3.1.c Network mask

3.1.d Next hop

3.1.e Administrative distance

3.1.f Metric

3.1.g Gateway of last resort

3.2 Determine how a router makes a forwarding decision by default

3.2.a Longest match

3.2.b Administrative distance

3.2.c Routing protocol metric

3.3 Configure and verify IPv4 and IPv6 static routing

3.3.a Default route

3.3.b Network route

3.3.c Host route

3.3.d Floating static

3.4 Configure and verify single area OSPFv2

3.4.a Neighbor adjacencies

3.4.b Point-to-point

3.4.c Broadcast (DR/BDR selection)

3.4.d Router ID

3.5 Describe the purpose of first hop redundancy protocol

4 IP Services

4.1 Configure and verify inside source NAT using static and pools

4.2 Configure and verify NTP operating in a client and server mode

4.3 Explain the role of DHCP and DNS within the network

4.4 Explain the function of SNMP in network operations

4.5 Describe the use of syslog features including facilities and levels

4.6 Configure and verify DHCP client and relay

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

4.8 Configure network devices for remote access using SSH

4.9 Describe the capabilities and function of TFTP/FTP in the network

5 Security Fundamentals

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

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

5.3 Configure device access control using local passwords

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

5.5 Describe remote access and site-to-site VPNs

5.6 Configure and verify access control lists

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

5.8 Differentiate authentication, authorization, and accounting concepts

5.9 Describe wireless security protocols (WPA, WPA2, and WPA3)

5.10 Configure WLAN using WPA2 PSK using the GUI

6 Automation and Programmability

6.1 Explain how automation impacts network management

6.2 Compare traditional networks with controller-based networking

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

- 6.3.a Separation of control plane and data plane
- 6.3.b North-bound and south-bound APIs

6.4 Compare traditional campus device management with Cisco DNA Center enabled device management

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

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

6.7 Interpret JSON encoded data

And Many More....

CLOUD -AWS

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)

- Network Address Translation (NAT) Instances and NAT Gateways
- Virtual Private Gateways (VPGs), Customer Gateways (CGWs), and Virtual Private
- Networks (VPNs)
- Summary

6. Elastic Load Balancing, Amazon CloudWatch, and Auto Scaling

- Introduction
- Elastic Load Balancing, Application Load Balancing
- Amazon CloudWatch
- Auto Scaling
- Summary

7. Databases and AWS

- Database Primer
- Amazon Relational Database Service (Amazon RDS)
- Amazon Redshift
- Amazon DynamoDB
- Summary

8. SQS, SWF, and SNS

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

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

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

10. Amazon ElastiCache

- Introduction
- In-Memory Caching
- Amazon ElastiCache
- Summary

11. Additional Key Services

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

12. Security on AWS

- Introduction
- Shared Responsibility Model
- AWS Compliance Program

And Many More...

REDHAT

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
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....

MCSA

Installation, Storage, and Compute with Windows Server 2016 - 740

Module 1: Installing, upgrading, and migrating servers and workloadsT

- Introducing Windows Server 2016
- Preparing and installing Nano Server and Server Core
- Preparing for upgrades and migrations
- Migrating server roles and workloads
- Windows Server activation models

Module 2: Configuring local storage

- Managing disks in Windows Server
- Managing volumes in Windows Server

Module 3: Implementing enterprise storage solutions

- Overview of DAS, NAS, and SANs
- Comparing Fibre Channel, iSCSI, and Fibre Channel over Ethernet
- Understanding iSNS, DCB, and MPIO
- Configuring sharing in Windows Server 2016

4 Implementing Storage Spaces and Data Deduplication

- Implementing Storage Spaces
- Managing Storage Spaces
- Implementing Data Deduplication

5 Installing and configuring Hyper-V and virtual machines

- Overview of Hyper-V
- Installing Hyper-V
- Configuring storage on Hyper-V host servers
- Configuring networking on Hyper-V host servers
- Configuring Hyper-V virtual machines
- Managing virtual machines

6 Deploying and managing Windows and Hyper-V containers

- Overview of containers in Windows Server 2016
- Deploying Windows Server and Hyper-V containers
- Installing, configuring, and managing containers by using Docker

7 Overview of high availability and disaster recovery

Defining levels of availability

Planning high availability and disaster recovery solutions with Hyper-V virtual machines

Backing up and restoring by using Windows Server Backup

High availability with failover clustering in Windows Server 2016

8 Implementing failover clustering

Planning a failover cluster

Creating and configuring a new failover cluster

Maintaining a failover cluster

Troubleshooting a failover cluster

Implementing site high availability with stretch clustering

9 Implementing failover clustering with Windows Server 2016 Hyper-V

Overview of the integration of Hyper-V Server 2016 with failover clustering

Implementing Hyper-V VMs on failover clusters

Key features for VMs in a clustered environment

10 Implementing Network Load Balancing

Overview of NLB

Configuring an NLB cluster

Planning an NLB implementation

11 Creating and managing deployment images

Introduction to deployment images

Creating and managing deployment images by using MDT

Virtual machine environments for different workloads

12 Managing, monitoring, and maintaining virtual machine installations

WSUS overview and deployment options

Update management process with WSUS

Overview of Windows PowerShell DSC

Overview of Windows Server 2016 monitoring tools

Using Performance Monitor

Monitoring event logs

And Many More....

Networking with Windows Server 2016- 741

1 Planning and implementing an IPv4 network

Planning IPv4 addressing
Configuring an IPv4 host
Managing and troubleshooting IPv4 network connectivity

2 Implementing DHCP

Overview of the DHCP server role
Deploying DHCP
Managing and troubleshooting DHCP

3 Implementing IPv6

Overview of IPv6 addressing
Configuring an IPv6 host
Implementing IPv6 and IPv4 coexistence
Transitioning from IPv4 to IPv6

4 Implementing DNS

Implementing DNS servers
Configuring zones in DNS
Configuring name resolution between DNS zones
Configuring DNS integration with Active Directory Domain Services (AD DS)
Configuring advanced DNS settings

5 Implementing and managing IPAM

Overview of IPAM
Deploying IPAM
Managing IP address spaces by using IPAM

6 Remote access in Windows Server 2016

Overview of remote access
Implementing the Web Application Proxy

7 Implementing DirectAccess

Overview of DirectAccess
Implementing DirectAccess by Using the Getting Started Wizard
Implementing and managing an advanced DirectAccess infrastructure

8 Implementing VPNs

Planning VPNs

Implementing VPNs

9 Implementing networking for branch offices

Networking features and considerations for branch offices

Implementing Distributed File System (DFS) for branch offices

Implementing BranchCache for branch offices

10 Configuring advanced networking features

Overview of high-performance networking features

Configuring advanced Microsoft Hyper-V networking features

11 Implementing Software Defined Networking

Overview of SDN.

Implementing network virtualization

Implementing Network Controller

And Many More....

Identity with Windows Server 2016-742

1 Installing and configuring domain controllers

Overview of AD DS
Overview of AD DS domain controllers
Deploying a domain controller

2 Managing objects in AD DS

Managing user accounts
Managing groups in AD DS
Managing computer objects in AD DS
Using Windows PowerShell for AD DS administration
Implementing and managing OUs

3 Advanced AD DS infrastructure management

Overview of advanced AD DS deployments
Deploying a distributed AD DS environment
Configuring AD DS trusts

4 Implementing and administering AD DS sites and replication

Overview of AD DS replication
Configuring AD DS sites
Configuring and monitoring AD DS replication

5 Implementing Group Policy

Introducing Group Policy
Implementing and administering GPOs
Group Policy scope and Group Policy processing
Troubleshooting the application of GPOs

6 Managing user settings with Group Policy

Implementing administrative templates
Configuring Folder Redirection, software installation, and scripts
Configuring Group Policy preferences

7 Securing Active Directory Domain Services

Securing domain controllers
Implementing account security
Implementing audit authentication
Configuring managed service accounts

8 Deploying and managing AD CS

Deploying CAs
Administering CAs
Troubleshooting and maintaining CAs

9 Deploying and managing certificates

Deploying and managing certificate templates
Managing certificate deployment, revocation, and recovery
Using certificates in a business environment
Implementing and managing smart cards

10 Implementing and administering AD FS

Overview of AD FS
AD FS requirements and planning
Deploying and configuring AD FS
Overview of Web Application Proxy

11 Implementing and administering AD RMS

Overview of AD RMS

Deploying and managing an AD RMS infrastructure

Configuring AD RMS content protection

12 Implementing AD DS synchronization with Microsoft Azure AD

Planning and preparing for directory synchronization

Implementing directory synchronization by using Azure AD Connect

Managing identities with directory synchronization

13 Monitoring, managing, and recovering AD DS

Monitoring AD DS

Managing the Active Directory database

Active Directory backup and recovery options for AD DS and other identity and access solutions

And Many More....

CEH

1. Introduction to Ethical Hacking
2. Footprinting and Reconnaissance
3. Scanning Networks
4. Enumeration
5. System Hacking
6. Vulnerability analysis
7. Malware Threats
8. Sniffing
9. Social Engineering
10. Denial-of-Services
11. Session Hijacking
12. Hacking Web servers
13. Hacking Web Applications
14. SQL Injections
15. Hacking Wireless Networks

16.Hacking Mobile Platforms
17.Evading IDS, Firewalls, and Honey pots
18.IoT Hacking
19.Cloud Computing
20.Cryptography

And Many More....

WHO CAN LEARN ?

- Anyone who wants to build a career in Networking.
- Anyone interrested 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....

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PROCESS FOR SUCCESS

GET PLACED

GET TRAINED

ENROLL

FACILITIES OFFERED

- Practical Training on Live Projects
- 100% Placement Guarantee
- Interview Preparation
- Global Certification
- Fully functional labs
- Online / OfflineTraining
- Study Materials
- Expert level industry recognized training

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