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Windows Server 2022 Administration

1.Module:

- 1: Introducing Windows Server 2022
- 2: Preparing and installing Windows Server GUI
- 3: Preparing for upgrades and migrations
- 4: Migrating server roles and workloads
- 5: Windows Server activation models

2.Module:

- 1: Managing disks in Windows Server
- 2: Managing volumes in Windows Server
- 3: Overview of DAS, NAS, and SANs
- 4: Configuring sharing in Windows Server 2022
- 5: Implementing Data Deduplication

3.Module:

- 1: Data Protection Overview
- 2: Backing up and restoring by using Windows Server Backup

4.Module:

- 1: Overview of the DHCP server role
- 2: Deploying DHCP
- 3: Managing and troubleshooting DHCP

5.Module:

- 1: Implementing DNS servers
- 2: Configuring zones in DNS

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3: Configuring name resolution between DNS zones

4: Configuring DNS integration with AD DS

5: Configuring advanced DNS settings

6.Module:

1:Networking features and considerations for branch offices

2:Securing Files and Folders

3:Protecting Shared Files and Folders by Using Shadow Copies

4:Implementing Encryption

5: Overview of DFS

6:Configuring DFS Namespaces

7:Configuring and Troubleshooting DFS Replication

7.Module:

1: Overview of AD DS

2: Overview of AD DS domain controllers

3: Deploying a domain controller

8.Module:

1: Managing user accounts

2: Managing groups in AD DS

3: Managing computer objects in AD DS

4: Implementing and managing OUs

9.Module:

1: Overview of advanced AD DS deployments

2: Deploying a distributed AD DS environment

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3: Configuring AD DS trusts

10.Module:

1: Overview of AD DS replication

2: Configuring AD DS sites

3: Configuring and monitoring AD DS replication

11.Module:

1: Introducing Group Policy

2: Implementing and administering GPOs

3: Group Policy scope and Group Policy processing

4: Troubleshooting the application of GPOs

5: Implementing administrative templates

6: Configuring Folder Redirection, Software Installation, and Scripts

7: Configuring Group Policy preferences

12.Module:

1: Monitoring AD DS

2: Managing the Active Directory database

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

13.Module:

1.Remote Desktop Services Overview

2.Configuring RDS

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RHCSA (Linux) Administration

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. Getting 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 systemd

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

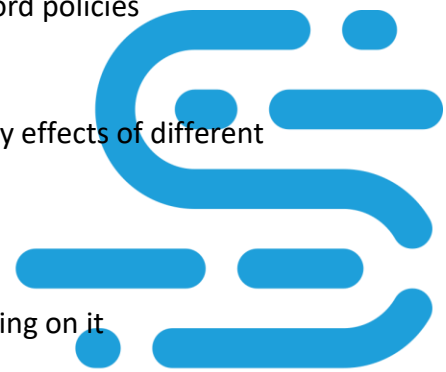
Configure basic IPv4 networking on Red Hat Enterprise Linux systems

12. Archive and copy files between systems

Archive files and copy them from one system to another

13. Install and update software packages

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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. Improving Command-Line productivity

Writing simple bash scripting running commands more efficiently using loops matching text in command output with regular expressions

16. Automate installation with Kickstart

Automate the installation of Red Hat Enterprise Linux systems with Kickstart

17. 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

18. Create and Edit text files with vim

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

19. Schedule future Linux tasks

Schedule tasks to automatically execute in the future

20. Manage priority of Linux processes

Influence the relative priorities at which Linux processes run

21. Control access to files with access control lists (ACL)

Manage file security using POSIX access control lists

22. Manage SELinux security

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

23. Connect to network-defined users and groups

Configure systems to use central identity management services

24. Add disks, partitions, and file systems to a Linux system

Manage simple partitions and file systems

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25. Manage logical volume management (LVM) storage

Manage logical volumes from the command line

26. Access networked attached storage with network file system (NFS)

Access (secure) NFS shares

27. Implementing advanced storage features

Manage storage using the startis local storage management system and use the vdo volumes to optimize storage space in use

28. Control and troubleshoot the Red Hat Enterprise Linux boot process

Selecting the boot target, resetting the root password, repairing file system issues at boot

29. Limit network communication with firewall

Configure a basic firewall

VMware vSphere Administration

1. Module

1. VMware and vSphere background

2. VMware vSphere as an infrastructure foundation

3. Storage platform

4. Network and security platform

5. Cloud platform

6. End-user computing platform

7. Container platform

2. Module

1. vSphere components and workflow

2. ESXi deployment plan

3. Choosing the hardware platform

4. Identification of the storage architecture

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5. Defining the network configuration

6. ESXi installation

7. Where to install ESXi?

8. Preparing for deployment

9. Interactive installation

10. Configuring DHCP

11. VMware vSphere HTML5 client

12. ESXi configuration

13. Management console configuration

14. Enabling SSH access

15. Configuring NTP

3. Module

1. Virtual networking

2. vSS

3. Managing vSS

4. VMkernel adapters

5. Physical adapters

6. TCP/IP stacks

4. Module

1. VM components

2. Virtual hardware

3. vCPUs

4. Memory

5. Network adapter

6. Virtual disks

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- 7.VMware Tools
- 8.Deploying VMs
- 9.Creating a new VM
- 10.Installing the OS
- 11.Installing VMware Tools
- 12.Deploying a VM from a template
- 13.Cloning a VM
- 14.Deploying Open Virtual Format (OVF) and Open Virtual Appliance
- 15.Managing VMs
- 16.Adding or registering an existing VM
- 17.Removing or deleting a VM
- 18.Managing the power state of a VM
- 19.Managing VM snapshots

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Microsoft Azure Administration



1.Module

- 1.Assign administrator permissions
- 2.Configure cost center quotas and tagging
- 3.Configure Azure subscription policies at the subscription level

2.Module

- 1.Use Azure policies for resource group
- 2.Configure resource locks on resource policies
- 3.Implementing resource group tagging

3.Module

- 1.Configure network access to the storage account

- 2.Create and configure storage accounts
- 3.Generate a shared access signature
- 4.Manage access keys
- 5.Implement Azure storage replication
- 6.Configure Azure AD Authentication for a storage account

4.Module

- 1.Create Azure file share
- 2.Create Azure File Sync service

5.Module

- 1.Configure the location of new VMs
- 2.Configure and deploy from a VHD template
- 3.Deploy Windows and Linux VMs

6.Module

- 1.Add data discs
- 2.Add network interfaces
- 3.Manage VM sizing and locations

4.Rdeploy VMs

7.Module

- 1.Create and configure VNET peering
- 2.Global VNET peering
- 3.Create a virtual network gateway
- 4.Verify virtual network connectivity

8.Module

- 1.Configure private and public IP addresses

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2.Configure network interfaces and subnets

9.Module

1.Create security rules

2.Associate an NSG to a subnet and interface

3.Identify required ports

4.Evaluate effective security rules

5.Deploy and configure Azure Firewall

6.Create and configure Azure VPN Gateway

7.Create and configure site to site VPN

10.Module

1.Add custom domains

2.Configure Azure AD Join

3.Configure self-service password reset

4.Create and manage users and groups

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Network/Firewall Fundamentals

1.Module

1.Hardware: Basic information of Routers and Switches

2.Software: IOS function and working principles

2.Module

1.Services: Introduction to OSI model principles, ports, protocols and application

2.Network Access principles

3.Module

1.Management types for hardware (Telnet and SSH)

2. Network Security fundamentals.

4. Module

1. Basic information about Network Security systems (Firewalls)

2. Basic information about Cisco ASA

5. Module

1. Basic configuration Cisco ASA (interfaces, security zone and management)

2. Basic information about Palo Alto (Firewall)

3. Basic configuration Palo Alto (interfaces, security zone and management)

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