

Unit – 1

**\*\*Installing Windows Server:\*\***

1. What is the first step in preparing for a Windows Server installation?

- A) Inserting the installation media
- B) Checking hardware compatibility
- C) Partitioning the hard drive
- D) Configuring BIOS settings
- **\*\*Answer: B) Checking hardware compatibility\*\***

2. Which utility can be used to create a bootable USB drive for installing Windows Server?

- A) Disk Management
- B) DiskPart
- C) Rufus
- D) Disk Cleanup
- **\*\*Answer: C) Rufus\*\***

3. What is the purpose of setting up the server hardware before installing Windows Server?

- A) To ensure the server meets minimum requirements
- B) To optimize performance
- C) To provide proper airflow and cooling
- D) All of the above
- **\*\*Answer: D) All of the above\*\***

4. Which of the following is NOT a step in installing the Windows Server operating system?

- A) Selecting the installation language
- B) Configuring network settings
- C) Partitioning the hard drive
- D) Installing device drivers
- **\*\*Answer: B) Configuring network settings\*\***

**\*\*Configuring Network:\*\***

5. What is the first step in managing network cabling?

- A) Testing cable connections
- B) Labeling cables
- C) Untangling cables
- D) Routing cables
- **\*\*Answer: B) Labeling cables\*\***

6. Which tool is commonly used to configure network interface cards (NICs) in Windows Server?

- A) Device Manager
- B) Network and Sharing Center
- C) Command Prompt
- D) Control Panel
- **\*\*Answer: A) Device Manager\*\***

7. What is the purpose of implementing IP addressing in a network?

- A) To uniquely identify devices on the network
- B) To improve network performance
- C) To encrypt network traffic
- D) To prevent unauthorized access
- **\*\*Answer: A) To uniquely identify devices on the network\*\***

8. Which network infrastructure service assigns IP addresses to devices on a network automatically?

- A) DNS
- B) DHCP
- C) SNMP
- D) FTP
- **\*\*Answer: B) DHCP\*\***

9. Which of the following is NOT a network infrastructure service?

- A) DNS
- B) DHCP
- C) VLAN
- D) NAT
- \*\*Answer: C) VLAN\*\*

**\*\*Creating a Virtual Environment:\*\***

10. What is the primary benefit of creating virtual servers?

- A) Reduced hardware costs
- B) Increased physical server utilization
- C) Easier server management
- D) All of the above
- \*\*Answer: D) All of the above\*\*

11. Which virtualization technology is commonly used for creating virtual switches?

- A) VMware vSphere
- B) Hyper-V
- C) VirtualBox
- D) KVM
- \*\*Answer: B) Hyper-V\*\*

12. What is the purpose of a virtual switch in a virtual environment?

- A) To connect virtual machines to the physical network
- B) To isolate virtual machines from each other
- C) To provide network security
- D) All of the above
- \*\*Answer: D) All of the above\*\*

13. Which of the following is NOT a type of virtual switch?

- A) External switch

- B) Internal switch
- C) Private switch
- D) Public switch
- \*\*Answer: D) Public switch\*\*

14. Which component is responsible for managing communication between virtual machines on the same host?

- A) Hypervisor
- B) Virtual NIC
- C) Virtual switch
- D) Virtual router
- \*\*Answer: C) Virtual switch\*\*

15. Which of the following virtualization technologies is open-source?

- A) VMware vSphere
- B) Hyper-V
- C) VirtualBox
- D) XenServer
- \*\*Answer: C) VirtualBox\*\*

16. What is the function of a virtual machine monitor (VMM)?

- A) To allocate physical resources to virtual machines
- B) To manage virtual machine configurations
- C) To provide hardware abstraction for virtualization
- D) All of the above
- \*\*Answer: D) All of the above\*\*

17. Which type of virtualization allows multiple operating systems to run simultaneously on a single physical machine?

- A) Application virtualization
- B) Desktop virtualization
- C) Server virtualization

- D) OS virtualization
- \*\*Answer: D) OS virtualization\*\*

18. Which virtualization technology is known for its ability to provide near-native performance for virtual machines?

- A) VMware vSphere
- B) Hyper-V
- C) XenServer
- D) KVM
- \*\*Answer: D) KVM\*\*

19. What is the main purpose of a virtual environment snapshot?

- A) To revert a virtual machine to a previous state
- B) To create a backup of a virtual machine
- C) To clone a virtual machine
- D) All of the above
- \*\*Answer: D) All of the above\*\*

20. Which of the following is NOT a consideration when creating virtual servers?

- A) Hardware compatibility
- B) Resource allocation
- C) Network topology
- D) Cooling requirements
- \*\*Answer: D) Cooling requirements\*\*

## Unit – 2

### **\*\*Installing Windows Server:\*\***

1. Which tool is commonly used to configure local server properties in Windows Server?

- A) Control Panel
- B) Server Manager
- C) Command Prompt
- D) Group Policy Editor
- **\*\*Answer: A) Control Panel\*\***

2. What is the primary purpose of configuring server roles in Windows Server?

- A) To optimize server performance
- B) To enable specific server functionalities
- C) To secure the server against threats
- D) To manage server resources
- **\*\*Answer: B) To enable specific server functionalities\*\***

3. Which service role is responsible for assigning IP addresses dynamically to clients on a network?

- A) DNS Server
- B) DHCP Server
- C) Active Directory Domain Services
- D) File Server
- **\*\*Answer: B) DHCP Server\*\***

4. What is the importance of setting up IP addressing service roles in a network environment?

- A) To provide secure access to network resources
- B) To manage network traffic efficiently
- C) To prevent unauthorized access to the network
- D) All of the above
- **\*\*Answer: B) To manage network traffic efficiently\*\***

### **\*\*Administering the Server:\*\***

5. What is a common method to update a Windows Server?

- A) Windows Update
- B) Registry Editor
- C) PowerShell script
- D) Group Policy Management
- \*\*Answer: A) Windows Update\*\*

6. Which tool is used to manage server administration access and control methods in Windows Server?

- A) Active Directory Users and Computers
- B) Local Security Policy
- C) Remote Desktop Connection
- D) Task Manager
- \*\*Answer: B) Local Security Policy\*\*

7. What is the purpose of creating service level agreements (SLAs) for server administration?

- A) To ensure compliance with industry standards
- B) To define the level of service expected by users
- C) To monitor server performance
- D) To manage server resources effectively
- \*\*Answer: B) To define the level of service expected by users\*\*

8. How can server performance be monitored in Windows Server?

- A) Task Manager
- B) Performance Monitor
- C) Event Viewer
- D) All of the above
- \*\*Answer: D) All of the above\*\*

**\*\*Implementing Storage Solutions:\*\***

9. What is the purpose of capacity planning in storage solutions?

- A) To optimize storage performance
- B) To determine storage requirements for future needs
- C) To configure RAID arrays
- D) To monitor disk usage
- \*\*Answer: B) To determine storage requirements for future needs\*\*

10. Which primary storage devices are commonly deployed in enterprise environments?

- A) Hard disk drives (HDDs)
- B) Solid-state drives (SSDs)
- C) Magnetic tape drives
- D) All of the above
- \*\*Answer: D) All of the above\*\*

11. Which storage technology combines multiple physical disks into a single logical unit to improve performance and/or redundancy?

- A) RAID
- B) NAS
- C) SAN
- D) SCSI
- \*\*Answer: A) RAID\*\*

12. What does RAID stand for in storage technology?

- A) Redundant Array of Independent Disks
- B) Remote Access to Integrated Data
- C) Reliable Array of Inexpensive Disks
- D) Random Access In Distributed storage
- \*\*Answer: A) Redundant Array of Independent Disks\*\*

13. Which RAID level offers the best performance and fault tolerance by striping data across multiple disks and mirroring them?

- A) RAID 0



- B) RAID 1
- C) RAID 5
- D) RAID 10
- \*\*Answer: D) RAID 10\*\*

14. Which RAID level provides fault tolerance by distributing parity across multiple disks?

- A) RAID 0
- B) RAID 1
- C) RAID 5
- D) RAID 10
- \*\*Answer: C) RAID 5\*\*

15. Which storage technology is designed for sharing files over a network and is commonly used for backup purposes?

- A) NAS (Network Attached Storage)
- B) SAN (Storage Area Network)
- C) DAS (Direct-Attached Storage)
- D) RAID (Redundant Array of Independent Disks)
- \*\*Answer: A) NAS (Network Attached Storage)\*\*

16. What is the primary advantage of deploying solid-state drives (SSDs) over traditional hard disk drives (HDDs)?

- A) Lower cost per gigabyte
- B) Higher storage capacity
- C) Faster read/write speeds
- D) Longer lifespan
- \*\*Answer: C) Faster read/write speeds\*\*

17. What storage technology is typically used for high-speed data transfers between servers and storage devices?

- A) NAS
- B) SAN

- C) DAS
- D) RAID
- \*\*Answer: B) SAN (Storage Area Network)\*\*

18. Which RAID level provides no redundancy or fault tolerance but offers improved performance through data striping?

- A) RAID 0
- B) RAID 1
- C) RAID 5
- D) RAID 10
- \*\*Answer: A) RAID 0\*\*

19. What is the primary purpose of deploying a storage technology like SAN?

- A) To centralize storage resources
- B) To improve network security
- C) To increase server performance
- D) To reduce storage costs
- \*\*Answer: A) To centralize storage resources\*\*

20. Which RAID level offers fault tolerance by mirroring data across multiple disks without striping?

- A) RAID 0
- B) RAID 1
- C) RAID 5
- D) RAID 10
- \*\*Answer: B) RAID 1\*\*

## Unit – 3

### **\*\*Securing The Server:\*\***

1. Which component is primarily responsible for controlling incoming and outgoing traffic to and from a server?

- A) Anti-virus software
- B) Firewall
- C) Intrusion Detection System (IDS)
- D) VPN
- **\*\*Answer: B) Firewall\*\***

2. Which security protocol encrypts data transmitted over a network to prevent eavesdropping?

- A) HTTP
- B) FTP
- C) SSL/TLS
- D) SMTP
- **\*\*Answer: C) SSL/TLS\*\***

3. What is the purpose of an intrusion detection system (IDS)?

- A) To prevent unauthorized access to the server
- B) To encrypt network traffic
- C) To detect and respond to suspicious activities or security breaches
- D) To configure access control lists
- **\*\*Answer: C) To detect and respond to suspicious activities or security breaches\*\***

4. Which access control method is based on user identities and permissions?

- A) Role-based access control (RBAC)
- B) Mandatory Access Control (MAC)
- C) Discretionary Access Control (DAC)
- D) Rule-based access control (RBAC)
- **\*\*Answer: C) Discretionary Access Control (DAC)\*\***

5. Which data security model is based on assigning security labels to data objects and users?

- A) Biba model
- B) Bell-LaPadula model
- C) Clark-Wilson model
- D) Brewer-Nash model
- \*\*Answer: B) Bell-LaPadula model\*\*

6. What are server hardening techniques primarily aimed at achieving?

- A) Maximizing server performance
- B) Reducing server maintenance costs
- C) Minimizing security vulnerabilities
- D) Improving network throughput
- \*\*Answer: C) Minimizing security vulnerabilities\*\*

7. Which physical security measure can prevent unauthorized access to server hardware?

- A) Firewall
- B) Biometric authentication
- C) Intrusion Detection System (IDS)
- D) Encryption
- \*\*Answer: B) Biometric authentication\*\*

8. What is the primary purpose of creating virtual networks?

- A) To improve server performance
- B) To isolate virtual machines from each other
- C) To reduce network latency
- D) To enhance data security
- \*\*Answer: B) To isolate virtual machines from each other\*\*

9. Which firewall type operates by examining data packets and making decisions based on defined rules?

- A) Packet-filtering firewall

- B) Application-layer firewall
- C) Proxy firewall
- D) Stateful inspection firewall
- \*\*Answer: A) Packet-filtering firewall\*\*

10. Which security protocol is commonly used for securing remote access to a server?

- A) SSH (Secure Shell)
- B) FTP (File Transfer Protocol)
- C) SNMP (Simple Network Management Protocol)
- D) RDP (Remote Desktop Protocol)
- \*\*Answer: A) SSH (Secure Shell)\*\*

11. What is the main function of a Virtual Private Network (VPN)?

- A) To encrypt data transmitted over a public network
- B) To provide physical security for server hardware
- C) To monitor network traffic
- D) To manage server resources
- \*\*Answer: A) To encrypt data transmitted over a public network\*\*

12. Which intrusion detection system approach involves analyzing network traffic for suspicious patterns or anomalies?

- A) Signature-based detection
- B) Behavior-based detection
- C) Host-based detection
- D) Network-based detection
- \*\*Answer: B) Behavior-based detection\*\*

13. Which logical access control method assigns permissions based on predefined roles within an organization?

- A) Role-based access control (RBAC)
- B) Mandatory Access Control (MAC)
- C) Discretionary Access Control (DAC)

- D) Rule-based access control (RBAC)
- \*\*Answer: A) Role-based access control (RBAC)\*\*

14. Which data security model focuses on maintaining the integrity of data by ensuring that only authorized users can modify it?

- A) Bell-LaPadula model
- B) Biba model
- C) Brewer-Nash model
- D) Clark-Wilson model
- \*\*Answer: B) Biba model\*\*

15. Which server hardening technique involves removing unnecessary services and applications?

- A) Patch management
- B) Least privilege principle
- C) Service isolation
- D) Service and application lockdown
- \*\*Answer: D) Service and application lockdown\*\*

16. What is the primary goal of implementing RAID (Redundant Array of Independent Disks) in storage solutions?

- A) To improve data security
- B) To maximize storage capacity
- C) To enhance data availability and reliability
- D) To reduce power consumption
- \*\*Answer: C) To enhance data availability and reliability\*\*

17. Which RAID level provides both data striping and mirroring for fault tolerance and performance improvement?

- A) RAID 0
- B) RAID 1
- C) RAID 5
- D) RAID 10

- \*\*Answer: D) RAID 10\*\*

18. Which physical security measure involves restricting access to server rooms through the use of access cards or keypads?

- A) Surveillance cameras
- B) Mantraps
- C) Biometric authentication
- D) Access control systems

- \*\*Answer: D) Access control systems\*\*

19. Which virtual network type enables communication between virtual machines running on the same physical server?

- A) Internal virtual network
- B) External virtual network
- C) Private virtual network
- D) Public virtual network

- \*\*Answer: A) Internal virtual network\*\*

20. Which security protocol is commonly used for securing email communication?

- A) HTTPS
- B) SMTPS
- C) FTPS
- D) SSH

- \*\*Answer: B) SMTPS\*\*

## Unit – 4

### **\*\*Performing Basic Linux Tasks:\*\***

1. What is one of the key principles of Linux design philosophy?

- A) Closed-source development
- B) Monolithic kernel architecture
- C) Open-source development and collaboration
- D) Proprietary software licensing
- **\*\*Answer: C) Open-source development and collaboration\*\***

2. Which command is used to list the contents of a directory in Linux?

- A) ls
- B) cd
- C) mv
- D) rm
- **\*\*Answer: A) ls\*\***

3. How can you get help with a Linux command in the terminal?

- A) Using the man command
- B) Googling it
- C) Asking a friend
- D) All of the above
- **\*\*Answer: D) All of the above\*\***

4. Which key combination is commonly used to exit the man pages in Linux?

- A) Ctrl + X
- B) Ctrl + C
- C) Ctrl + Q
- D) Ctrl + Z
- **\*\*Answer: C) Ctrl + Q\*\***

### **\*\*Managing Users and Groups:\*\***



5. What command is used to create a new user in Linux?

- A) adduser
- B) useradd
- C) createuser
- D) newuser
- \*\*Answer: B) useradd\*\*

6. How can you query information about users and groups in Linux?

- A) Using the passwd command
- B) Using the ls command
- C) Using the id command
- D) Using the who command
- \*\*Answer: C) Using the id command\*\*

7. Which command is used to modify a user's password in Linux?

- A) passwd
- B) password
- C) change
- D) setpass
- \*\*Answer: A) passwd\*\*

8. How do you assume superuser privileges for executing administrative tasks in Linux?

- A) Using the sudo command
- B) Logging in as root
- C) Using the su command
- D) All of the above
- \*\*Answer: A) Using the sudo command\*\*

**\*\*Managing Permissions and Ownership:\*\***

9. Which command is used to change file permissions in Linux?

- A) chmod
- B) chown
- C) chgrp
- D) perm
- \*\*Answer: A) chmod\*\*

10. What does the command `chmod 755 file.txt` do in Linux?

- A) Grants read, write, and execute permissions to the owner, and read and execute permissions to the group and others
- B) Grants read, write, and execute permissions to the owner, group, and others
- C) Grants read and write permissions to the owner, and read permissions to the group and others
- D) Grants execute permissions to the owner, group, and others
- \*\*Answer: A) Grants read, write, and execute permissions to the owner, and read and execute permissions to the group and others\*\*

11. How can you change the owner of a file in Linux?

- A) Using the chown command
- B) Using the chmod command
- C) Using the chgrp command
- D) Using the passwd command
- \*\*Answer: A) Using the chown command\*\*

12. What is the purpose of the sticky bit permission in Linux?

- A) To allow the owner to execute the file
- B) To prevent accidental deletion of files in a directory
- C) To restrict access to the file to the owner only
- D) To allow group members to execute the file
- \*\*Answer: B) To prevent accidental deletion of files in a directory\*\*

**\*\*Managing Storage:\*\***

13. Which command is used to create partitions in Linux?

- A) mkfs
- B) fdisk
- C) mount
- D) resize2fs
- \*\*Answer: B) fdisk\*\*

14. How can you mount a file system in Linux?

- A) Using the mount command
- B) Using the umount command
- C) Using the fdisk command
- D) Using the resize2fs command
- \*\*Answer: A) Using the mount command\*\*

15. What does LVM stand for in Linux?

- A) Logical Volume Manager
- B) Large Volume Management
- C) Logical Volume Mapping
- D) Limited Volume Manager
- \*\*Answer: A) Logical Volume Manager\*\*

16. Which command is used to create logical volumes in Linux?

- A) lvcreate
- B) lvextend
- C) lvcreate
- D) vcreate
- \*\*Answer: A) lvcreate\*\*

17. How can you navigate the Linux directory structure in the terminal?

- A) Using the ls command
- B) Using the cd command

- C) Using the cp command
- D) Using the rm command
- \*\*Answer: B) Using the cd command\*\*

18. Which command is used to display disk space usage in Linux?

- A) df
- B) du
- C) fdisk
- D) lsblk
- \*\*Answer: A) df\*\*

19. What does the command `mkdir new\_directory` do in Linux?

- A) Creates a new file named "new\_directory"
- B) Moves the current directory to a new directory named "new\_directory"
- C) Removes the directory named "new\_directory"
- D) Creates a new directory named "new\_directory"
- \*\*Answer: D) Creates a new directory named "new\_directory"\*\*

20. Which command is used to delete a file in Linux?

- A) rm
- B) del
- C) erase
- D) remove
- \*\*Answer: A) rm\*\*

## Unit – 5

### **\*\*Managing Files and Directories:\*\***

1. Which command is used to create a new directory in Linux?

- A) touch
- B) mkdir
- C) cp
- D) cat

- **\*\*Answer: B) mkdir\*\***

2. What command is used to edit a text file in Linux?

- A) vim
- B) ls
- C) rm
- D) mv

- **\*\*Answer: A) vim\*\***

3. Which command is used to search for files in Linux?

- A) grep
- B) find
- C) locate
- D) ls

- **\*\*Answer: B) find\*\***

4. What command is used to list the contents of a directory in Linux?

- A) ls
- B) cd
- C) cat
- D) pwd

- **\*\*Answer: A) ls\*\***

5. Which command is used to change the permissions of a file in Linux?

- A) chmod
- B) chown
- C) chgrp
- D) perm
- \*\*Answer: A) chmod\*\*

6. What command is used to change the ownership of a file in Linux?

- A) chmod
- B) chown
- C) chgrp
- D) own
- \*\*Answer: B) chown\*\*

7. Which permission set (in octal notation) grants read, write, and execute permissions to the owner, read and execute permissions to the group, and read-only permission to others?

- A) 755
- B) 644
- C) 777
- D) 666
- \*\*Answer: A) 755\*\*

8. Which command is used to process a text file and display its content on the terminal in Linux?

- A) cat
- B) grep
- C) tail
- D) head
- \*\*Answer: A) cat\*\*

9. What command is used to append the output of a command to a file in Linux?

- A) cat
- B) grep

- C) echo
- D) tail
- \*\*Answer: C) echo\*\*

10. Which command is used to sort the lines of a text file alphabetically in Linux?

- A) sort
- B) uniq
- C) wc
- D) sed
- \*\*Answer: A) sort\*\*

11. What command is used to display the first few lines of a text file in Linux?

- A) head
- B) tail
- C) more
- D) less
- \*\*Answer: A) head\*\*

12. Which command is used to count the number of lines, words, and characters in a text file in Linux?

- A) wc
- B) count
- C) grep
- D) cut
- \*\*Answer: A) wc\*\*

13. What command is used to replace text in a file in Linux?

- A) sed
- B) awk
- C) grep
- D) cut
- \*\*Answer: A) sed\*\*

14. Which command is used to create a backup of a file in Linux?

- A) cp
- B) mv
- C) backup
- D) cp -r
- \*\*Answer: A) cp\*\*

15. What command is used to remove a directory and its contents in Linux?

- A) rm
- B) rmdir
- C) rm -r
- D) rmdir -rf
- \*\*Answer: C) rm -r\*\*

16. Which directory is the top-level directory in the Linux file system hierarchy?

- A) /bin
- B) /home
- C) /usr
- D) /
- \*\*Answer: D) /\*\*

17. Which directory contains system configuration files in Linux?

- A) /bin
- B) /etc
- C) /var
- D) /usr
- \*\*Answer: B) /etc\*\*

18. What command is used to create a symbolic link in Linux?

- A) ln



- B) link
- C) symlink
- D) slink
- \*\*Answer: A) ln\*\*

19. Which command is used to display the current working directory in Linux?

- A) dir
- B) pwd
- C) cd
- D) ls
- \*\*Answer: B) pwd\*\*

20. What command is used to display the contents of a file in a paginated form in Linux?

- A) cat
- B) more
- C) less
- D) head
- \*\*Answer: C) less\*\*

## Unit – 6

### **\*\*Managing Devices:\*\***

1. What type of Linux device is used to represent physical hardware components?

- A) Block devices
- B) Character devices
- C) Network devices
- D) Virtual devices
- **\*\*Answer: A) Block devices\*\***

2. Which command is commonly used to list all connected devices in Linux?

- A) listdev
- B) lshw
- C) lsusb
- D) lsblk
- **\*\*Answer: D) lsblk\*\***

3. What is the purpose of device configuration in Linux?

- A) To optimize device performance
- B) To ensure compatibility with the operating system
- C) To manage device resources efficiently
- D) All of the above
- **\*\*Answer: D) All of the above\*\***

4. Which tool is often used to monitor device status and performance in Linux?

- A) top
- B) ifconfig
- C) dmesg
- D) sar
- **\*\*Answer: D) sar\*\***

5. What is the primary function of troubleshooting hardware issues in Linux?

- A) To enhance device security
- B) To optimize device performance
- C) To ensure hardware reliability
- D) To minimize downtime
- **\*\*Answer: D) To minimize downtime\*\***

**\*\*Managing Networking:\*\***

6. What are the fundamental protocols of the TCP/IP suite?

- A) HTTP and HTTPS
- B) TCP and UDP
- C) DNS and DHCP
- D) IP and ICMP
- **\*\*Answer: B) TCP and UDP\*\***

7. Which Linux server role is responsible for providing file sharing services over the network?

- A) DNS Server
- B) DHCP Server
- C) FTP Server
- D) Web Server
- **\*\*Answer: C) FTP Server\*\***

8. What command is used to check the IP address configuration of a Linux system?

- A) ipconfig
- B) ifconfig
- C) nslookup
- D) dig
- **\*\*Answer: B) ifconfig\*\***

9. Which service is responsible for dynamically assigning IP addresses to clients on a network?

- A) DNS

- B) DHCP
- C) HTTP
- D) SMTP
- \*\*Answer: B) DHCP\*\*

10. Which Linux command is used to troubleshoot DNS-related issues?

- A) nslookup
- B) traceroute
- C) netstat
- D) ping
- \*\*Answer: A) nslookup\*\*

11. What is the primary purpose of configuring cloud technologies in Linux?

- A) To improve server security
- B) To enhance network performance
- C) To increase scalability and flexibility
- D) To reduce hardware costs
- \*\*Answer: C) To increase scalability and flexibility\*\*

12. Which virtualization technology is commonly used in Linux environments?

- A) VMware vSphere
- B) Hyper-V
- C) KVM (Kernel-based Virtual Machine)
- D) VirtualBox
- \*\*Answer: C) KVM (Kernel-based Virtual Machine)\*\*

13. What command is used to troubleshoot network connectivity issues by sending ICMP echo requests?

- A) traceroute
- B) ping
- C) netstat
- D) dig

- \*\*Answer: B) ping\*\*

14. Which Linux utility is used to display network connection information, routing tables, and interface statistics?

- A) netstat
- B) ifconfig
- C) ipconfig
- D) traceroute

- \*\*Answer: A) netstat\*\*

15. What is the purpose of configuring DNS client services in Linux?

- A) To provide domain name resolution
- B) To secure network communications
- C) To manage IP address allocation
- D) To optimize network performance

- \*\*Answer: A) To provide domain name resolution\*\*

16. Which TCP/IP protocol is responsible for resolving domain names to IP addresses?

- A) DNS (Domain Name System)
- B) DHCP (Dynamic Host Configuration Protocol)
- C) HTTP (Hypertext Transfer Protocol)
- D) SMTP (Simple Mail Transfer Protocol)

- \*\*Answer: A) DNS (Domain Name System)\*\*

17. What is the primary role of a DHCP server in a network?

- A) To assign IP addresses to devices dynamically
- B) To resolve domain names to IP addresses
- C) To provide secure communication channels
- D) To manage file sharing services

- \*\*Answer: A) To assign IP addresses to devices dynamically\*\*

18. Which Linux command is used to display the route that network packets take to reach a destination?

- A) traceroute
- B) ping
- C) netstat
- D) route
- \*\*Answer: A) traceroute\*\*

19. What is the purpose of configuring a Linux server as a DNS server?

- A) To assign IP addresses to devices dynamically
- B) To resolve domain names to IP addresses
- C) To manage file sharing services
- D) To optimize network performance
- \*\*Answer: B) To resolve domain names to IP addresses\*\*

20. Which Linux command is used to query DNS records for a domain name?

- A) dig
- B) nslookup
- C) ping
- D) host
- \*\*Answer: A) dig\*\*

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