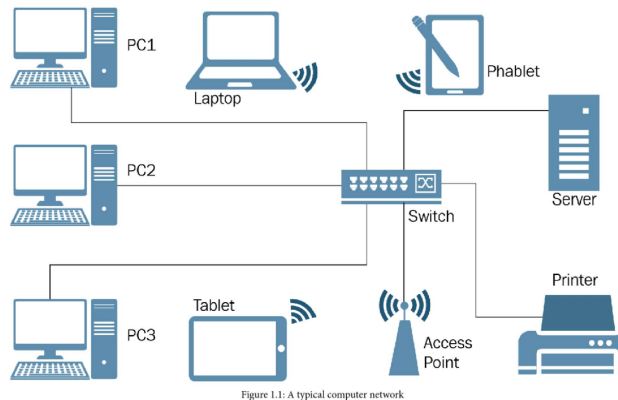


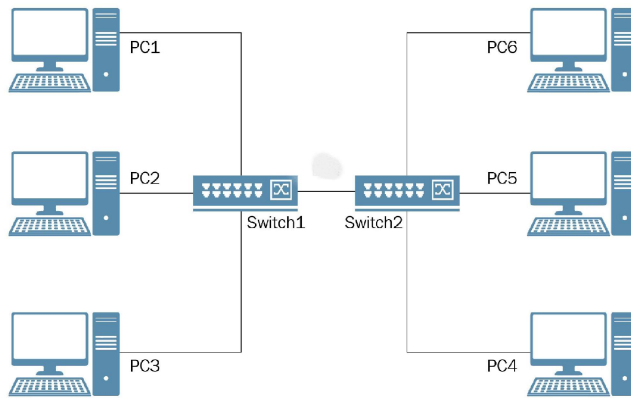
**POP Quiz 7-8 (Networking & Windows Server Administration)****Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1. In Figure 1.1, how which of the following devices are the **MOST** susceptible to a wireless based attack?



- a. PC1  
b. Laptop  
c. Server  
d. Tablet  
e. Phablet  
f. Switch  
g. Printer  
h. Access Point
- \_\_\_\_\_ 2. Which of the following types of networks does the following figure represent?



- a. PAN  
b. WAN  
c. LAN  
d. MAN
- \_\_\_\_\_ 3. Which of the following commands is used to update a GPO on the child machines attached to a server?
- a. gpupdate /enforce  
b. gpupdate /setup  
c. gpupdate /run  
d. gpupdate /force
- \_\_\_\_\_ 4. GPOs assigned to the computer level are applied when computers are
- a. Turned on  
b. Turned off  
c. In hibernation mode  
d. In sleep mode

Name: \_\_\_\_\_

ID: A

- \_\_\_\_\_ 5. What is the manager of keeping track of all the digital certificates on your domain server?
- a. Digital certificate
  - b. Certificate Authority
  - c. Public Key Infrastructure
  - d. Kerberos Manager
- \_\_\_\_\_ 6. Which of the following is used to monitor processes, performance, and services currently running on your server(s) or local machine(s)?
- a. Resource Monitor
  - b. Performance Monitor
  - c. Task Manager
  - d. Server Manager

### True/False

*Indicate whether the statement is true or false.*

- \_\_\_\_\_ 1. A computer network architecture represents the computer network design that enables the network components to communicate with one another
- \_\_\_\_\_ 2. A web service is a communication between two devices based on the request/response methodology using the FTP protocol.
- \_\_\_\_\_ 3. GPOs are processed in the following order: Local, Site, Domain, Organizational Units (OUs)
- \_\_\_\_\_ 4. Not configured is the default setting for GPOs meaning that the registry value has not been manipulated.
- \_\_\_\_\_ 5. Hyper-V provide services that you can use to create and manage VMs and their resources.
- \_\_\_\_\_ 6. A computer must have an IPv4 and IPv6 network address in order to be connected to your domain.
- \_\_\_\_\_ 7. Lightweight Directory Access Protocol (LDAP) is used to access the directory services data on a network.
- \_\_\_\_\_ 8. The primary storage is a hardware component that is capable of temporarily storing data, allowing processors to access data faster & easier, as well as acting as a communication bridge between applications and peripheral devices to access the processor.
- \_\_\_\_\_ 9. You should always update your server and local machines to the latest version of Windows, regardless if they impact the performance of your system.

### Multiple Response

*Identify one or more choices that best complete the statement or answer the question.*

- \_\_\_\_\_ 1. Which of the following protocols are utilized by electronic mail services? (Choose all that apply.)
- a. FTP
  - b. HTTP
  - c. SMTP
  - d. POP
- \_\_\_\_\_ 2. Which of the following represent GPO configuration values?
- a. Enabled
  - b. Disabled
  - c. Allow
  - d. Deny

Name: \_\_\_\_\_

ID: A

- \_\_\_\_\_ 3. Which of the following are virtualization modes are in Hyper-V?
- a. Fully virtualized mode
  - b. Paravirtualized mode
  - c. Production mode
  - d. Standard mode
- \_\_\_\_\_ 4. Which of the following are available during the initial installation of Windows Server 2019?
- a. Desktop Experience
  - b. Server Core
  - c. Nano Server
  - d. KDE
  - e. Gnome
  - f. Windows Powershell
- \_\_\_\_\_ 5. Which of the following types of backups are available to be performed during backup services?
- a. Arithmetic
  - b. Incremental
  - c. Differential
  - d. Geometric

### Completion

*Complete each statement.*

1. The \_\_\_\_\_ represents the physical components, while the \_\_\_\_\_ represent the logical components of a server.
2. \_\_\_\_\_ is the endpoint on logical applications where the computer communicates with other applications on other computers for both local and wireless networks
3. The protocol \_\_\_\_\_ transfers files from either, Computer to Computer, Computer to Server, Server to Computer.
4. \_\_\_\_\_ have to do with user access to shared folders, drives, directories, on the network.
5. The \_\_\_\_\_ are administrative templates that enable system administrators to configure what users can and cannot do on computers, peripheral devices, and network applications across the organization's network.
6. The \_\_\_\_\_ displays the hierarchical structure of the domain, whereas the \_\_\_\_\_ contains the status, linked GPOs, GP inheritance, and delegation tabs.
7. The \_\_\_\_\_ is another Microsoft Management Console (MMC) snap-in that enables you to manage GPO settings on a local computer.
8. \_\_\_\_\_ securely authenticates and provides the identity between users and servers on the network.

### Matching

\_\_\_\_\_ Match the following system components

- a. Internal Device
- b. External Device
- c. Peripheral Device
- d. Network Device

- \_\_\_\_\_ 1. Any device that is located in the computer case.
- \_\_\_\_\_ 2. Any device attached or connected to the computer case, and is essential to the whole system.

Name: \_\_\_\_\_

ID: A

- \_\_\_\_\_ 3. Any device physically located near a computer, and is not essential to the system as a whole.
- \_\_\_\_\_ 4. A peripheral device, connected to a computer over a network cable. These devices work under a networked architecture.

\_\_\_\_\_ Match the following Microsoft Management Console (MMC) services with their respective functions.

- |   |   |
|---|---|
| a. Active Directory Administrative Center | d. Active Directory Sites and Services            |
| b. Active Directory Users and Computers   | e. Active Directory Module for Windows Powershell |
| c. Active Directory Domains and Trusts    |   |

- \_\_\_\_\_ 5. Windows server directory services
- \_\_\_\_\_ 6. Manages the users, computers, and relevant information.
- \_\_\_\_\_ 7. Manages the domains, trusts, and relevant information.
- \_\_\_\_\_ 8. Manage the replication and services between sites.
- \_\_\_\_\_ 9. Manages the Windows server's directory services via cmdlets:

\_\_\_\_\_ Match the following protocols with their respective definition:

- |                                 |                                       |
|---------------------------------|---------------------------------------|
| a. Server Message Block (SMB)   | d. Hypertext Transfer Protocol (HTTP) |
| b. Network File System (NFS)    | e. Secure Shell (SSH)                 |
| c. File Transfer Protocol (FTP) |                                       |

- \_\_\_\_\_ 10. A file sharing protocol used by most Windows OSes.
- \_\_\_\_\_ 11. File sharing protocol used mostly in Unix & Linux.
- \_\_\_\_\_ 12. File sharing by transferring files from site-site.
- \_\_\_\_\_ 13. Enables the file sharing over the world wide web service.
- \_\_\_\_\_ 14. Enables remote file sharing over a secured connection

### Short Answer

- 1. What is the purpose of the domain name service (DNS)?

**Name:** \_\_\_\_\_

**ID: A**

2. Research: Define what is SSL?  
(Your answer should include the following: 1. What does SSL stand for. 2. What is the port number. 3. The definition of SSL. 4. How does SSL work.)
3. What is the process of prohibiting access to the users in the Control Panel and PC Settings using the GPO in Windows Server 2019?
4. What is nested virtualization?

## POP Quiz 7-8 (Networking & Windows Server Administration)

### Answer Section

#### MULTIPLE CHOICE

1. ANS: H  
The access point does not have a firewall or any other mechanism in place to protect it from an intrusion.  
  
PTS: 1
2. ANS: C  
Local Area Network (LAN) - tied with switches ONLY. Geographical network = same floor  
Personal Area Network (PAN) - tied with bluetooth / limited range  
Wireless Area Network (WAN) - tied with wireless switches (potential router for private IP addressing), geographical range in the same building across multiple floors  
Metropolitan Area Network (MAN) - tied with switches & routers; across multiple geographical spaces that extend into multiple buildings.  
  
PTS: 1
3. ANS: D PTS: 1
4. ANS: A  
GPOs are automatically pushed when a machine is turned on if it was previously off when the policy was pushed.  
  
PTS: 1
5. ANS: B  
Digital certificate - an electronic document that ensures that entities can exchange data securely on the internet.  
Public Key Infrastructure - Uses certificates to prove the ownership of the public key.  
Kerberos Manager - Provides the infrastructure to perform Kerberos duties.  
  
PTS: 1
6. ANS: C  
The server manager seems like a choice, but the question talked about local machines too.  
  
PTS: 1

#### TRUE/FALSE

1. ANS: T  
Computer networks use network-based components to talk to each other.  
  
PTS: 1
2. ANS: F  
Web services are based on HTTP/HTTPS.  
  
PTS: 1

3. ANS: T  
Local = Forest, Site = Acre block, Domain = Tree, Organizational Units = Branches  
Users/Groups = Leaves  
  
PTS: 1
4. ANS: T  
When something is “not configured”, it means that there is no corresponding registry value to confirm / deny the setting.  
  
PTS: 1
5. ANS: T  
True  
  
PTS: 1
6. ANS: F  
You only need 1 or the other; typically in today’s world - the IPv6 is an alternative used in case IPv4 ranges are not enough. However they are a security risk, if the addresses are not properly managed and secured.  
  
PTS: 1
7. ANS: T  
True  
  
PTS: 1
8. ANS: T  
True: Also known as the Random Access Memory (RAM)  
  
PTS: 1
9. ANS: F PTS: 1

**MULTIPLE RESPONSE**

1. ANS: C, D  
SMTP = Simple Mail Transfer Protocol  
POP = Post Office Protocol  
  
PTS: 1
2. ANS: A, B  
Allow & Deny are reserved for networking capabilities. i.e. firewall & iptables  
  
PTS: 1
3. ANS: A, B PTS: 1
4. ANS: A, B, F  
All other features are available for download once Windows Server 2019 is installed.  
  
PTS: 1
5. ANS: B, C PTS: 1

**COMPLETION**

1. ANS: Hardware; Software  
PTS: 1
2. ANS: Port / Software Ports  
PTS: 1
3. ANS: File Transfer Protocol (FTP)  
PTS: 1
4. ANS: Sharing  
PTS: 1
5. ANS: Group Policy Objects (GPOs)  
PTS: 1
6. ANS: Forest Pane ; GPO pane  
PTS: 1
7. ANS: Local group policy editor  
PTS: 1
8. ANS: Kerberos  
PTS: 1

**MATCHING**

- |            |        |
|------------|--------|
| 1. ANS: A  | PTS: 1 |
| 2. ANS: B  | PTS: 1 |
| 3. ANS: C  | PTS: 1 |
| 4. ANS: D  | PTS: 1 |
| 5. ANS: A  | PTS: 1 |
| 6. ANS: B  | PTS: 1 |
| 7. ANS: C  | PTS: 1 |
| 8. ANS: D  | PTS: 1 |
| 9. ANS: E  | PTS: 1 |
| 10. ANS: A | PTS: 1 |
| 11. ANS: B | PTS: 1 |
| 12. ANS: C | PTS: 1 |
| 13. ANS: D | PTS: 1 |
| 14. ANS: E | PTS: 1 |



**SHORT ANSWER**

1. ANS:

The Domain Name System (DNS) is a central part of the internet, providing a way to match names (a website you're seeking) to numbers (the address for the website). Anything connected to the internet - laptops, tablets, mobile phones, websites - has an Internet Protocol (IP) address made up of numbers.

PTS: 1

2. ANS:

1. SSL = Secured Sockets Layer

2. Port = 443, over HTTPS

3. SSL is a communication technology that encrypts the communication channel between a website on a web server and a browser on a computer.

4. The browser connects to a secured website with SSL through HTTPS. Certificates are used to validate the encrypted transmitted data. They are mutual by the website & the browser in negotiating a secured session between browser-server or server-server communication.

PTS: 1

3. ANS:

1. Navigate to the following GPO: User Configuration \ Policies \ Administrative Templates \ Control Panel.

2. Click on 'Prohibit access to the Control Panel and PC settings'.

3. In the dialog box, select the 'Enable' option, and then click 'OK' to close the dialog box.

PTS: 1

4. ANS:

The nested virtualization refers to a virtual machine (VM) that runs inside another VM. In other words, the server's hardware can run a Hyper-V instance inside a VM, which in-itself runs a Hyper-V client.

PTS: 1

B     5.

C     3.

D     4.

C     6.

A, B, F   4.

H     1.

B, C   5.

T     1.

F     2.

T     3.

T     4.

T     5.

F     6.

T     7.

T     8.

F     9.

A     5.

B     6.

C     7.

D     8.

E     9.

C     2.

A     10.

B     11.

C     12.

D     13.

E     14.

D     3.

C, D   1.

A     4.

A, B   2.

A     1.

B     2.