**Module 3 [Network Configuration]**

**Topic: Local area networking**

•Assignment level Basic:

1. What is Network?

ANS:Network is a system that connects two or more computing devices for transmitting and sharing information.

1. What is Internet & Intranet?

ANS: Internet: Is a global computer network that allows for information exchange between devices.

Intranet: Is a private network that is only accessible to members of an organization.

•Assignment level Intermediate:

1. How many types of Network we used?

ANS: Three types: Local Area Network (LAN)

: Wide Area Network (WAN)

: Metropolitan Area Network (MAN)

1. Different between LAN & PAN?

ANS: PAN: connect the devices within the short range of an individual person. Personal Area Network

LAN: Connect devices at a single site, typically an office building. Local Area Network

•Assignment level advance:

1. Explain LAN?

ANS: Local Area Network is a collection of device connected together in one physical location such as a building, office, home. A LAN can be small or larger, ranging from a home network with one user to an enterprise network with thousands of user and devices in an office or school

1. What are different types of LAN devices?

ANS:Router

HUB

Gateway

Switch

Bridge

**Topic: configured Network**

•Assignment Level Basic

1. What is configured network?

ANS. Network configure is the process of assigning network setting, policies, flows, and controls.

1. How do we configure network?

ANS: set up user account

Configure network setting

Install and configure application

Set up shares resources

Confing security measures.

Set server backup

Test the server

•Assignment level Intermediate.

1. How to check the ip address?

* ANS: select start
* Click setting
* Click network& internet
* Select wi-fi network your connected to
* Under properties ,look for ip address

2. How to check the ip address through cmd?

* ANS: : open command prompt
* Type ipconfig
* Enter
* Scroll to ipv4 address to see

3.How can we enter static address in network adapter?

* ANS:enter key window+r type “ncpa.cpl” press enter
* Select network Adapter
* Select properties
* Select internet protocol version 4(tcp/ipv4)
* Manually enter ip address and subnet mask
* Save seeting

•Assignment Level Advanced

1. Do a practical to release the packets from the adapter.

2. Do a practical to renew the lease of the ip address.

* ANS: : open command prompt
* Type ipconfig
* Enter
* Type ipconfig/renew
* Then enter

1. Do a practical to check the connectivity to the Google.

ANS: open command prompt

Type ping and space bar type ip address

The ping result display

**Topic: Wireless networking**

•Assignment level Basic

1. What is the difference between WEP and WPA?

ANS: measures.

|  |  |
| --- | --- |
| WEP | WPA |
| Wired Equivalent privacy | Wi-Fi protected access |
| It provide wireless security through the use of an encryption Key | It provide wireless security through the use of a password |
| Encryption method is Rivets cipher 4 | Encryption method is Rivets cipher 4 and temporal Key integrity protocol |

1. What is Wireless Network?

ANS: Wireless Network is computer network that uses Wireless data connection a between network nodes.

•Assignment level Intermediate:

1. What is a wireless network connection?

ANS: wireless network connection is the transmission of voice and data without cable or wire

1. What are the basic concepts of networking?

ANS: Computer network connect nodes like computer, router and switches using cables fiber optical or wireless signals. These connection allow share information and resources.

•Assignment level advance:

1. What do you need to know about networking?

* ANS:Switchs
* Ethernet
* Router
* Firewall
* Internet protocol address  
  (ip)
* Client and server
* Wireless access point
* Bandwidth
* hubs

1. How do you explain computer networking?

ANS: computer networking refers to interconnected computer devices that can exchange data and share resource with each other.these network devices use a system of rules called communication protocols to transmit information wireless technologies.

**Topic: THE Internet**

•Assignment level Basic:

1. What do you mean by the term URL?

ANS:URL stands for uniform resource locator A URL is nothing more than the address of a give unique resource on the web

1. Term which is used to see web pages is called what?

ANS: Browser is a software program used to view web pages.

•Assignment level Intermediate:

1. In the Ethernet which topology is used?

ANS:It uses a bus or star topology .

1. Set of rules and regulations while working on internet, which term is used?

ANS:A protocol is set of rule that governs the communication between computer on a network.

•Assignment level advance:

1. What do you mean by RAS?

ANS: Relibilty, availability and serviceability promote the extreme robustness of their mainframe computer.

1. What are the main search engines to get more website URL on Internet?

ANS:http://www.google.com/search?q=%s

1. What does the PROTOCOL consist of?

ANS:A protocol is set of rules for formatting and processing data.

**Topic: Virtualization**

•Assignment level Basic:

1. What is Virtualization

ANS: Virtualization is technology that you can use to create virtual representation of servers, storage, network and other physical machine

1. What is the Difference between Full Virtualization and Para Virtualization?

ANS: Full Virtualization: enables the guest operating system to run independently.

Para Virtualization: enables the guest os to interact with the hypervisor

•Assignment level Intermediate:

1. What is Hyper-visor?

ANS: Hyper-visor is the process of creating multiple VMS using hypervisor-V on a system running windows.

1. What are different hypervisors available in Linux?

ANS: KVM,Microsoft Hyper-V and VMWARE

1. What is Virtualization and what are its types?

ANS: Virtualization is technology that you can use to create virtual representation of servers, storage, network and other physical machine.Deskop, application server, storage, network

•Assignment level advance:

1. Name the components that are used in VMware infrastructure What is benefits of

Virtualization?

* ANS:ESXI
* Vcenter Server
* Virtualization
* VMware infrastructure
* Nsx
* VMware cloud
* VMware DRS
* Database
* Application availability
* Cookie preference center
* Benefits of Virtualization
* Reduced expenses
* Resiliency
* High availability
* Increased efficiency
* Green it
* Devops made easy