



COE 371L

Computer Networks I

19/20

Fall 2019

Lab #3

Section #2

Title: Host Config & Desktop Virtualization

Name : Amir Mohideen, Zayed Mohamed

ID: 74559, 75771

1. What does ICMP stand for: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Internet Control Message Protocol

1. How does the PING utility use the ICMP protocol?

PING is used to test the reachability of host in an IP network. This sends an ICMP echo request packets to the target and waits for the echo replies from that IP. The ICMP also allows addition specialized control messages along with the packets which helps in giving more information about the devices, the connections and also the networks. The number of ping packets are also being limited to prevent any service denials.

1. Client machines IP addresses are better configured statically. [TRUE | FALSE]

False. They are done dynamically.

1. Sever machines IP addresses are better configured statically. [TRUE | FALSE]

True

1. Hosts on the same IP subnet require a gateway to communicate. [TRUE | FALSE]

False. They are used only if they are in different subnets.

1. Briefly explain the use of Window Firewall.

A firewall is a security application that supervises incoming and outgoing data and decides whether to allow or block specific data based on a defined set of security rules. Windows firewall is a firewall that’s built-in with the Microsoft Windows Operating System. It protects devices from cyber-attacks by acting as a filter between a computer and the internet.

1. What is the desktop virtualization tool you used in the lab?

Oracle VM VirtualBox

1. What is a hypervisor? Name two popular hypervisors?

A hypervisor is a virtual machine manage which helps us to create and manage virtual machines and also combing multiple machines into a single device. This helps in increasing the utilization as several low utilization percentage servers are being combined into one to produce a high utilization percentage server. It runs on a device called Host OS. The hypervisor host all the virtual machine guest OSs and also all the operating systems share the same main hardware. The two popular hypervisors are

* VirtualBox
* Microsoft’s Hyper-V hypervisor

1. In virtualization, the guest OS installs onto the VM. [TRUE | FALSE]

True

1. In virtualization, the host OS installs onto the VM. [TRUE | FALSE]

False. Installed in computer.

1. Virtualization decreases hardware resources utilization. [TRUE | FALSE]

False. Increases.