

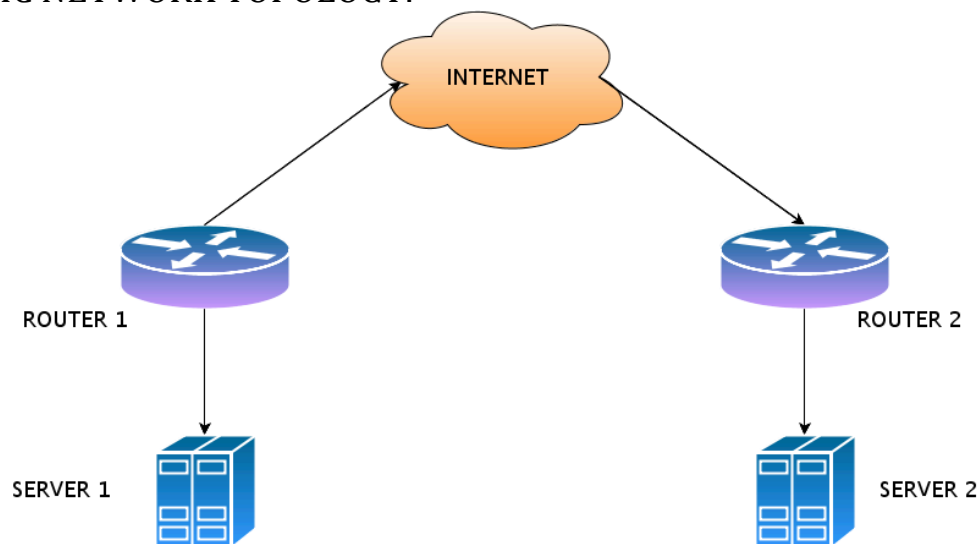
Using GNS3 to set up a secure virtualized network

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NOTE: This is only a draft of the handout to be presented during the workshop.

BASIC NETWORK TOPOLOGY:



INTRODUCTION TO NETWORK DEVICES:

- ❖ **Routers:**
- ❖ **Firewalls:**
- Demilitarized Zone:*
- ❖ **Servers:**

CONFIGURATION SYNTAX:

Routers:

Assigning an IP address to a router interface:
interface <interface_name>

ip address <address> <netmask>

Viewing the configuration of an interface on the router:

show run interface <interface_name>

Firewall:

Creating an access-list. This list will determine what traffic will be allowed to pass through the firewall:

- *access-list <name_of_list> permit ip host <source_ip> host <destination_ip>*
- *access-list <name_of_list> permit tcp host <source_ip> host <destination_ip> eq <port_number>*

Setting a default route on the firewall:

route 0.0.0.0 0.0.0.0 <destination_ip>

Viewing the routes configured on the firewall:

show run route

Viewing the configured access-list on a firewall:

show run access-list

Viewing interfaces on a firewall:

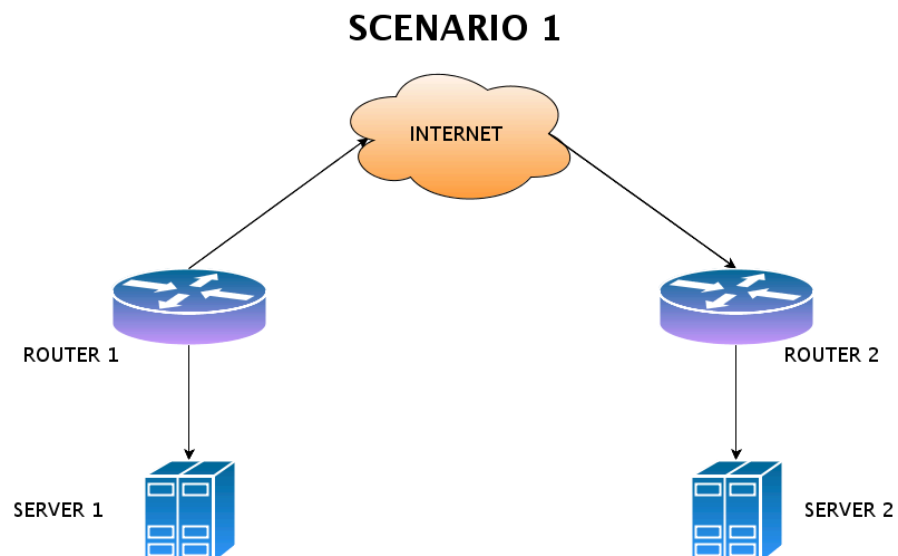
show run interfaces

Viewing log files on the firewall:

show log

Server:

INTERACTIVE SCENARIOS:



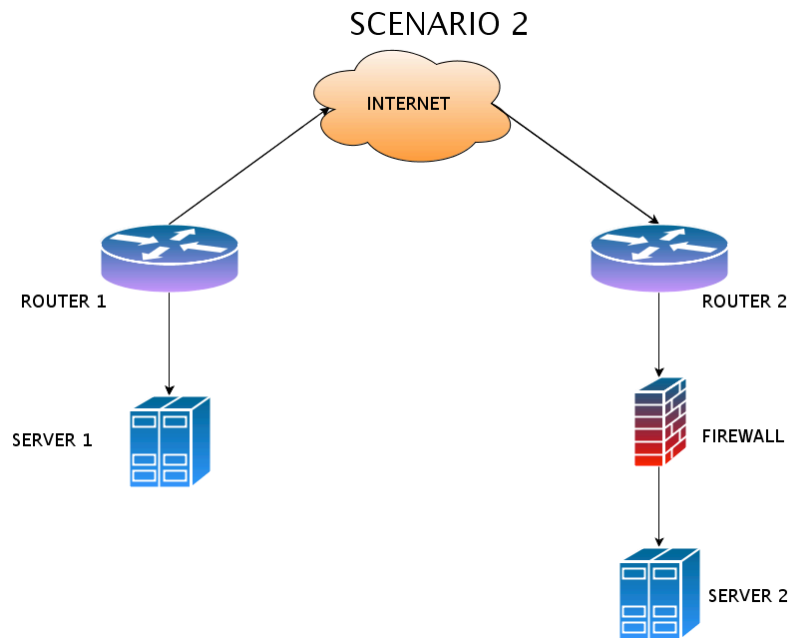
Quiz 1:

1. How will you view if an IP address is already configured on the server?

Answer: _____

2. How will you view the configuration of interface Gig0/1 on Router 1?

Answer: _____



Quiz 2:

1. How will you view all the access-lists configured on the firewall?

Answer: _____

2. How will you configure an ingress access-list allowing server 1 to talk to server 2 on port http (80)?

Answer: _____

SCENARIO 3

