**Module4 CCNA**

List of IP Services Types and Example of HSRP

IP Services: DHCP, DNS, NAT, VPN, VoIP.

Example of HSRP:

interface GigabitEthernet0/1

ip address 192.168.1.2 255.255.255.0

standby 1 ip 192.168.1.1

standby 1 priority 110

standby 1 preempt

Example of Backup and Restore Router Managing IOS

Backup:

copy running-config startup-config

copy startup-config tftp

Restore:

copy tftp startup-config

reload

Explain Security Threat

Security threats include unauthorized access, data breaches, malware, and DoS attacks. They can disrupt services, steal sensitive information, and cause financial losses.

List of Basic Security of Password – Example with Apply Password in Router

Basic Security: Use strong passwords, enable password encryption, and configure login banners.

Apply Password:

enable secret cisco

line vty 0 4

password cisco

login

Describe Threat Defense Technologies

Firewalls: Control incoming and outgoing network traffic.

Intrusion Detection/Prevention Systems (IDS/IPS): Monitor and potentially prevent malicious activities.

VPNs: Secure remote access.

Anti-malware: Protect against malware attacks.