

COURSE: SECURITY+ SY0-401

MODULE 1: NETWORK SECURITY

Part A

- **Explain network design, elements and components**

Network Design Elements

- DMZ
- Subnetting
- VLAN
- NAT
- Remote Access
- Telephony
- Layered security / Defense in depth

Virtualization

Hardware Options

Device	Summary
Memory	512 MB
Processors	1
Hard Disk (SCSI)	40 GB
CD/DVD (IDE)	Using file C:\Users\Will\Downloads\oph...
Floppy	Auto detect
Network Adapter	Bridged (Automatic)
USB Controller	Present
Sound Card	Auto detect
Printer	Present
Display	Auto detect

Memory

Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

Memory for this virtual machine: MB

- Maximum recommended memory (Memory swapping may occur beyond this size.) 8948 MB
- Recommended memory 512 MB
- Guest OS recommended minimum 128 MB

Network Access Control

General Settings

Object Name:

Description:

Endpoint Operating System:


Window Version:

Endpoint must update to Windows Service Pack: (ex: 2 for at least SP2 update, blank for don't care)

Passing Criterion

Endpoint must comply with all checking items

Endpoint must comply with at least one checking item

 **Note:**
If you do not select any checking items, the endpoints only need to be using the selected operating system.



Checking Item - Windows Update

Windows Update Settings

Endpoint must enable Windows Auto Update

Checking Item - Security Patch

Required Windows Security Patches on Endpoints

 Add  Remove

#	Windows Security Patch
No data to display	

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Endpoint needs to match all of the windows security patch

Example:
Windows Security Patch : KB5682

Checking Item - Personal Firewall

Endpoint must have Personal Firewall installed

Available

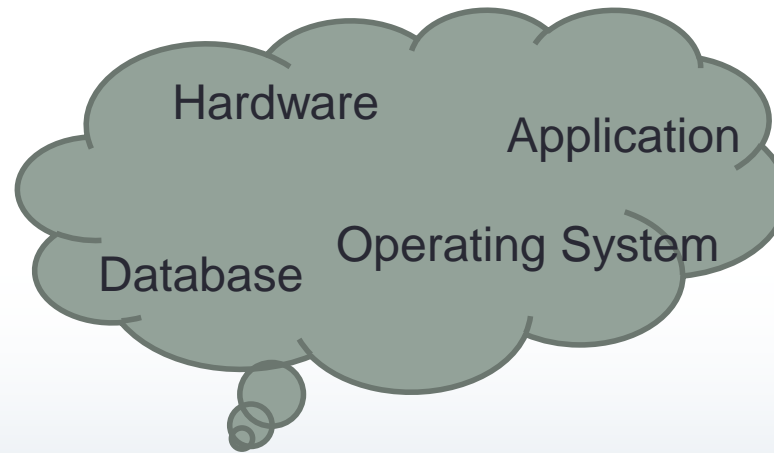
- Avira_Internet_Security_2012
- ESET_Smart_Security_4
- ESET_Smart_Security_5
- F_Secure_Anti_Virus_Client_Security_v9
- F_Secure_Internet_Security_2010

Allowed Personal Firewall List

Endpoint needs to match any of the personal firewall

Cloud Computing

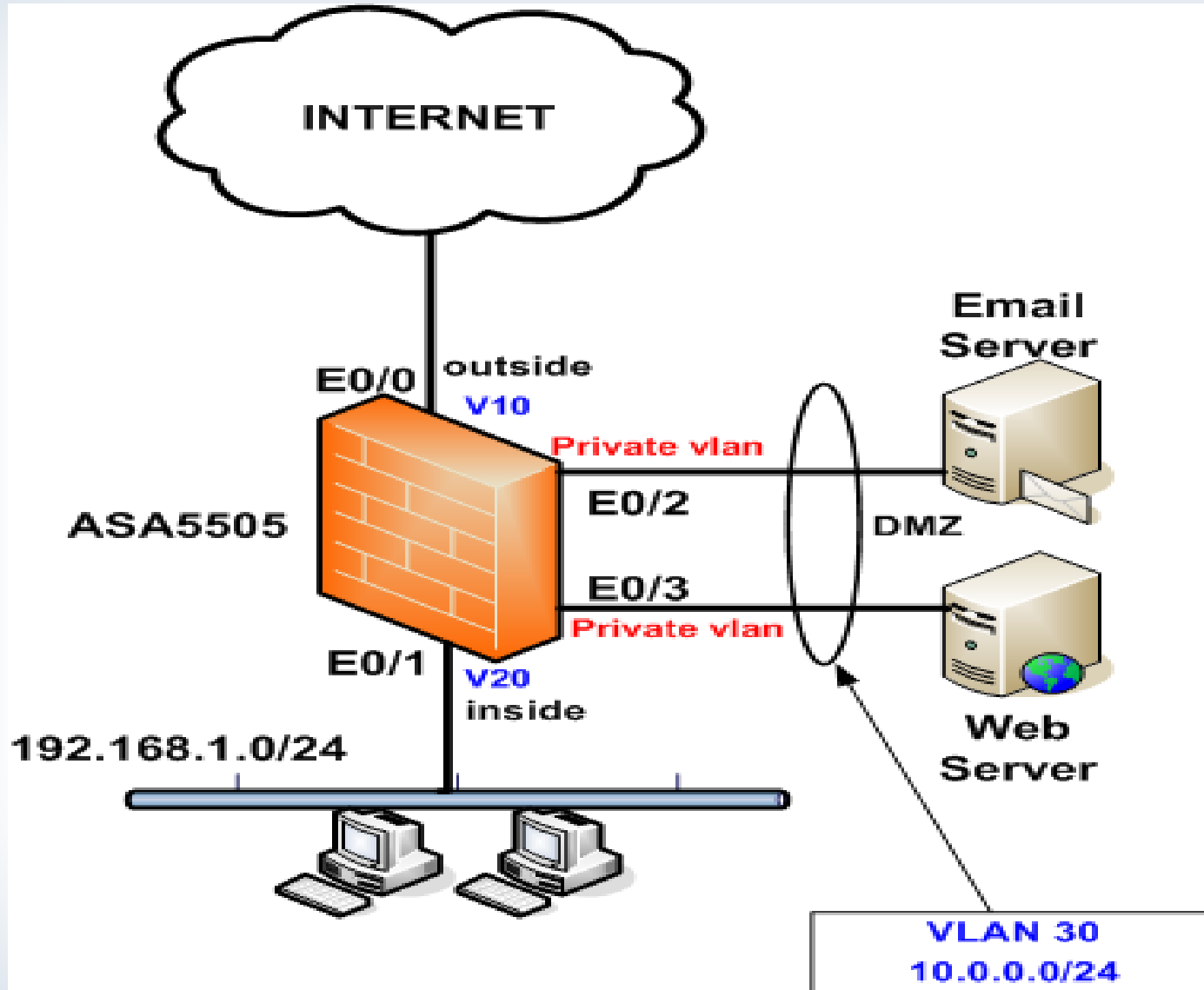
- Platform as a Service
- Software as a Service
- Infrastructure as a Service



Cloud Computing

- Clouds
 - Private
 - Public
 - Hybrid
- Community

Network Design Elements



Scenario 1

Using the OSI Model, identify the layer where the following devices, application, ports and protocols are located.

Router

Switch

NIPS

Antivirus software

HIDS

Port 22, 53, 110

Https

FTP

SMTP

Wireless Router

Application

Presentation

Session

Transport

Network

Data Link

Physical



THANK YOU
