COURSE: SECURITY+ SY0-401

MODULE 1: NETWORK SECURITY
• Explain network design, elements and components
Network Design Elements

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

Virtualization

![Virtualization Diagram](image-url)
Network Design Elements

Network Access Control

General Settings
- **Object Name:** Windows 2008
- **Description:**
- **Endpoint Operating System:** Windows
- **Window Version:** Windows Server 2008
- **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

Example:
Windows Security Patch: KE5692

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
Network Design Elements

Cloud Computing

- Platform as a Service
- Software as a Service
- Infrastructure as a Service
Network Design Elements

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

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<th>Application</th>
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<tr>
<td>Switch</td>
<td>Session</td>
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<td>NIPS</td>
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THANK YOU