

10.4.1.1 Packet Tracer - Skills Integration Challenge

**** חלק מהערכים בתרגיל (שמות וכתובות IP) הם רנדומליים, שלבי הפתרון יהיו זהים אך יש להיעזר בטבלת הניתוב ובהוראות.**

<p><u>Sw</u></p> <p>Configure remote management access including IP addressing and SSH:</p> <ul style="list-style-type: none"> - Domain is cisco.com - User CAdmin with password itsasecret - Crypto key length of 1024 - SSH version 2, limited to 2 authentication attempts and a 60 second timeout - Clear text passwords should be encrypted. <p>Configure, name and assign VLANs. Ports should be manually configured as access ports.</p> <p>Implement port security:</p> <ul style="list-style-type: none"> - On F0/1, allow 2 MAC addresses that are automatically added to the configuration file when detected. The port should not be disabled, but a syslog message should be captured if a violation occurs. 	<pre> Cnt-Sw(config)#ip domain-name cisco.com Cnt-Sw(config)#user CAdmin password itsasecret Cnt-Sw(config)#crypto key generate rsa How many bits in the modulus [512]: 1024 Cnt-Sw(config)#ip ssh version 2 Cnt-Sw(config)#ip ssh authentication-retries 2 Cnt-Sw(config)#ip ssh time-out 60 Cnt-Sw(config)#service password-encryption Cnt-Sw(config)#vlan 15 Cnt-Sw(config-vlan)#name Servers Vlan לחזור עבור כל * Cnt-Sw(config)#int range f0/11-f0/20 Cnt-Sw(config-if-range)#switchport mode access PCs ו Management לחזור עבור * Cnt-Sw(config)#int vlan 60 Cnt-Sw(config-if)#ip address 192.168.45.34 255.255.255.240 Cnt-Sw(config)#ip default-gateway 192.168.45.33 Cnt-Sw(config)#int g0/0 Cnt-Sw(config-if)#switchport mode trunk Cnt-Sw(config-if)#switchport trunk native vlan 45 [show vlan brief, show int status, show int trunk] Cnt-Sw(config-if)#int f0/1 Cnt-Sw(config-if)#switchport port-security Cnt-Sw(config-if)#switchport port-security mac-address sticky Cnt-Sw(config-if)#switchport port-security maximum 2 Cnt-Sw(config-if)#switchport port-security violation restrict </pre>
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<ul style="list-style-type: none"> · Implement routing: - Use RIP version 2 - Disable automatic summarization - Configure one network statement for the entire 192.168.45.0/24 address space - Configure a default route to the Internet. <ul style="list-style-type: none"> · Implement NAT: - Configure a standard, one statement ACL number 1. All IP addresses belonging to the 192.168.45.0/24 address space are allowed. <ul style="list-style-type: none"> - Refer to your documentation and configure static NAT for the File Server. <ul style="list-style-type: none"> - Configure dynamic NAT with PAT using a pool name of your choice, a /30 mask, and these two public addresses: 64.100.32.56 and 64.100.32.57 - Bind the NAT pool to ACL 1 and configure PAT. Packet Tracer does not grade this command. <ul style="list-style-type: none"> - Activate NAT on all appropriate interfaces. 	<pre>Central(config)#router rip Central(config-router)#version 2 Central(config-router)#no auto-summary Central(config-router)#default-information originate Central(config-router)#network <u>192.168.45.0</u> Central(config)#ip route 0.0.0.0 0.0.0.0 <u>serial 0/1/0</u></pre> <p>[show ip rip database, show ip route]</p> <pre>Central(config)#ip access-list standard <u>1</u> Central (config-std-nacl)#permit <u>192.168.45.0 0.0.0.255</u></pre> <pre>Central(config)#ip nat inside source static <u>192.168.45.66 64.100.32.58</u></pre> <pre>Central(config)#ip nat pool pool1 64.100.32.56 64.100.32.57 netmask 255.255.255.252</pre> <pre>Central(config)#ip nat inside source list <u>1</u> pool <u>pool1 overload</u></pre> <p>[show ip route connected]</p> <pre>Central(config)#int se0/1/0 Central(config-if)#ip nat Central(config-if)#ip nat ou Central(config-if)#ip nat outside</pre> <pre>Central(config-if)#int gi0/0.45 Central(config-subif)#ip nat Central(config-subif)#ip nat inside</pre> <p style="text-align: right;">*להגדיר על כל הממשקים</p>
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