CCNA Commands List Cheat Sheet

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Day 4 - Basic Device Security / Commands

SW1(config)#**banner motd $**"enter welcome message"**$**	sets message of the day banner when entering an IOS device.
SW1(config)#**enable password** "password"	unencrypted password text will be applied and can be viewed in running-config.
R1(config)#**service password-encryption**	encrypts the current unencrypted passwords and featured inserted passwords with **Type 7** encryption.
SW1(config)#**enable secret** "password"	encrypted password using MD5 hash. will take priority over unencrypted passwords.
R1(config)#**no ip domain-lookup**	disables DNS lookup from host and prevents miss-typed commands from being "translated". (**CTRL+SHIFT+6**)
R1(conf-line)#**logging synchronous**	prevents logging output from interrupting your command input.
Router(config)#**line vty 0 15**	select ports 0-15 for SSH/Telnet virtual line.
R1(config)#**line console 0**	selects the console port on the IOS device to make configuration changes.
R1(config)#**login**	activates a configured password that has been set for a remote connection such as Telnet or SSH.
R1(config)#**login local**	asks the user logging in to enter a username & password stored on the router.
R1(config)#**username** *username* **privilege** *1-15* **secret** *password*	STEP 1# sets up a username and password.
R1(config)#**line console** *0*	STEP 2# sets up a username and password.
R1(config)#**login local**	STEP 3# sets up a username and password.
R1(config)#**end**	STEP 4# sets up a username and password.
SW1(config-if)#**default** *interface g0/1*	restores the default settings of the interface selected.

Day 6 - Ethernet LAN Switching

SW1(config)#**clear mac address-table dynamic**	manually removes the MAC address from the table.
SW1(config)#**clear mac address-table dynamic address** *MAC Address*	deletes specific entered mac address.
SW1(config)#**clear mac address-table dynamic interface** *interface*	deletes all mac address on an interface.

Day 8 - IPv4 Addressing

R1(config-if)#**ip address** *192.168.1.1 255.255.255.0*	sets the chosen interface with an IP address and Subnet Mask
R1(config-if)#**no shutdown**	enables the interface
R1(config)#**hostname** *R1*	sets a hostname to a chosen network device.

Day 9 - Switch Interfaces

SW1(config-if)#**speed** *10,100,1000* or *auto*	sets the chosen interface speed settings.
SW1(config)#**duplex** *half,full* or *auto*	sets the chosen interface duplex settings.

Day 11 - Static Routing

R1(config)#**ip route** | *destination of the network's ip address* | *destination of the network's Subnet Mask* | *next hop router*	sets a static configured route of the next hop address with destination and subnetmask.

Day 11 - Static Routing (cont)

R1(config)#**ip route 0.0.0.0 0.0.0.0** *next hop router*	sets a default route

Day 16 - VLANs (1)

SW1(config-if)#**vlan** *vlan number*	creates the VLAN.
SW1(config-vlan)**name** *name a vlan*	names the VLAN.
SW1(config-if)#**switchport mode access**	enables the VLAN on the selected interface.
SW1(config-if)#**switchport access vlan** *vlan number*	lets the configured VLAN number to access the selected interface.

Day 17 - VLANs (2)

SW1(config-if)#**switchport mode trunk**	sets the switchport to trunking mode.
SW1(config-if)#**switchport trunk encapsulation dot1q**	manually sets the encapsulation protocol to IEEE 802.1Q
SW1(config-if)#**switchport trunk allowed vlan** *vlan number*	adds VLANs to the configured/selected trunk
SW1(config-if)#**switchport trunk native vlan** *native vlan number*	changes the default native VLAN from "1" to the configured native VLAN.
SW1#**show interfaces trunk**	displays the native VLAN number and the allowed VLAN on a trunk

Day 17 - ROAS (3)

R1(config-if)#**interface** *g0/1*	STEP #1- select a sub-interface.
R1(config-subif)#**encapsulation dot1q** *vlan id*	STEP #2 - encapsulate the VLAN with IEEE802.1Q frames.
R1(config-subif)#**ip address** *192.168.1.62 255.255.255.192*	STEP #3 - configure the sub-interface with an IP address and subnetmask.
R1#**show ip interface brief**	we can view those sub-interfaces with these commands
R1#**show ip route**	we can view those sub-interfaces with these commands

Day 18 - Multilayer Switch L3

MLSW1(config)#**ip routing**	enables Layer 3 routing on the MLSW.
MLSW1(config-if)#**no switchport**	disables L2 switchport and makes it L3 capable switchport.

Day 18 - Multilayer Switch SVI's

SW1(config-if)#**interface vlan** *vlan number**	STEP 1# select a VLAN to configure an SVI on.
SW1(config-if)#**ip address** *192.168.1.62 255.255.255.192*	STEP 2# set the SVI with an IP address
SW1(config-if)#**no shutdown**	STEP 3# enable the SVI interface.

Day 19 - DTP

SW2(config-if)#**switchport mode dynamic** *auto/d-esirable*	this is DTP. automatically determining if the switchport needs to be access-access or trunk-trunk.

Day 19 - DTP (cont)

SW2(config-if)#**switchport nonegotiate**	disables DTP. recommended to disable it for security purposes. *note: **switchport mode access** also disables DTP, since it's a manual configuration.
SW2#**show interfaces** *g0/1* **switchport**	displays the following; interface name, administrative mode (desirable/auto), operational mode (trunk/access).

Day 19 - VTP

SW1(config)#**vtp domain** *domain name*	changes domain name from "NULL" to a configured domain name. *note: can't delete vtp domain name. only change to a diffreenet VTP domain name or delete the .dat file on the Switch.
SW1(config)#**vtp mode** *client / server / transp-arent*	selects one of the following VTP modes
SW1(config)#**vtp version** *version number 1,2,3*	selects the version number. *note: for a server switch to share VTP advertisements and copy it's VLANs and **revision number** and domain name to other client switches. they both need to be set to the same version number.
SW1#**show vtp status**	shows VTP version running, domain name, pruning mode, number of existing VLANs, revision number.

Day 23 - EtherChannel (PAgP / LACP / Static)

MLSW(config)#**interface po1**	#STEP 1 - creates port channel interface
MLSW(config-if)#**switchport trunk encapsulation dot1q**	#STEP 2 - sets the port channel to IEEE 802.1Q VLAN trunking standard
MLSW(config-if)#**switchport mode trunk**	#STEP 3 - sets the port channel to trunk mode

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^ לערוך עם פאקט טרייסר את הפקודות	
MLSW(config)#**interface range** *g0/1-5*	STEP #1 - select interfaces
MLSW(config)#**no switchport**	STEP #2 - disable L2 switchport and make switchport L3 capable.
MLSW(config)#**channel-group 1,2,3** *mode* active / desirable / on*	STEP #3 - **creates the po1 interface* and sets the channel group and EtherChannel Protocol.

SW1#**show etherchannel summary**	displays the flags | *(SU) (SD) (RU) etc...*
SW1#**show etherchannel load-balance**	displays the load-balance of *dst-ip dst-mac-ip etc...*
SW1#**show etherchannel port-channel**	SUMMARY לא בטוח שצריך את הפקודה הזו, לבדוק כנגד

Day 23 - EtherChannel (PAgP / LACP / Static) (cont)

SW1#**show ip interface brief**	checks for *po1/2/3* interfaces to make sure they've been created..

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Not published yet.
Last updated 18th December, 2023.