BRYANT (CNA 2018 SECTIONS - MEMORY, BOOT, PASSWARD)
Memory 1: Mem contents and boot process.
ROM- Stores bootstrap start-p program, OS software, and power-on diagnostic test programs (POST) Flush Memory- Stores 105 image and config Piles RAM: Stores operational info like routing/switching tables and the running config file NVRAM: Non-Volatile RAM. Holds startop config file
105 lmage sourch order: 1. Flush (default) 2. TPTP 3. ROM
Memory Z: Setup Mode
ctrl-c to exit dialog
MEMORY 3: Enable secret/Password
enable secret - sets secret, which always overrides
enable secret - sets secret, which always overrides the password. enable password - also used for outh, probably for backword compatibility? Not used if secret set.
Memory 41 Console Port Single Password
(config)# line con 0 (config-line)# login # password cisco
Memory S: Console Port Username / Password DB
S. far we have a password, but: - no accountability. no usernames are asked for - password is easier to cruck than username/pu

So far we have a password, but:

- no accountability. no usernames are asked for

- password is easier to cruck than username/par

- passwords are shared by people who shouldn't share

- To add a username / password:

(config) # username admin password cisco

- To enable login:

(config-line)# login local

To automatically encrypt all passwords:

(config)# service password-encryption

line con o

Memory 6: Port Scentity Success Fundamentals AKA "The Emery within"

Port Security - Abasic Cisco Security feature that uses the source MAC address of incoming frames.

First: check ports to verify things are on the right # show cdp neighbors

Then, to enable on an interface:

(config)# int fast o/1 (config-if)# switch port port-security

NOTE: port must be in access made for port security! (config-if) switch port mode access

Port Scurity Options!

SWI (config-if) # Switchport port-security aging Time? <1-1440 > Aging time in minutes

Aging type:

absolute: Absolute Aging (chefunt)

inactivity: Aging based on mactivity time period

port-security maximum? <1-6144> maximum mac Addresses

port-security mac-address? I. H. H. 49 bit MAC address

sticky Configure dynamic secure addresses as sticky

Switch part port-security violation?

protect sewrity violation protect mode

restrict sewrity violation restrict mode

shutdown sewrity violation shutdown mode

Shutdown - puts part into error-disable mode, Restrict - generates SNMP message. Restrict - generates SNMP/syslog message. Protect only drops Frame. nothing else.

Manage To Roat Bount governous Memory 8: Part Security Static Lab Begins 10.11.1/21 000f. 47c4. 09c0 0016.d4c2.0990 Enable port security Swi (config) # int fo/1
(config-if) # switch port port-security (must be an access port, 'switchport mode access') # switch port port-sewrity mac-adress a-aa. 6666. cccc This is not the right MAC, so the interface will now be down for more info: # show port-security

I show int foll # show port-security int foli Steps to Fix? Resolve the issue first 3 order is important.

Then reset the port first it will error again reset { # shut port # no shot Memory 10:] Port Scivity Dynamic Lab By just turning on port-security without a MAC:

— (config-if)# Switchpost port-security

Once the port goes up, it will take the connected MAC.

You can view the addresses with To add another address, or allow dynamic learning with an address assigned, change the max. - fenfig-if) # switchpart part-scaring maximum 2 the uno can add up to two addressed, or learn dynamically memory 11: Part Sewrity Sticky Address

- Dynamic Entries Lost if port skut down

- Sticky sets the MAC to be stored.

int fo/1

switch-port port-sewrity mac-address sticky

That's all! Now any Dynamically learned MAC addresses are markedas sticky and will be stored.

Errdisable recovery

(config) # err disable recovery cause psecure-violation

not supported in packet tracer # err disable recovery interval 30 seconds - minimum 30 seconds