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: ECE

NAME OF THE LABORATORY : Computes Networks Name G. Sti Garga Pranav Roll No. 1602-21-735-117 Page No.

Configuring Ceause Passwords and SSH Aim: To configure secure passwords in a network tools used: - PC leaded with cisco packet traces.

Procedure:

(1

- I configure Basic security on the Router
 - # click on PCA, open ip addressing on destetop
- # configure if addressing on PLA according to the addressing table,
 - # Open terminal, which will give access to Routes it's CLI
 - * configure the northame as "RTA"
 - configure IP addressing on RIA and enable the interface
- * Encrypt all plain text par word
- # set the minimum password length to Lo
- # set a strong secret password of your choosing that you will remember, or you will need to reset the activity if your one looked out of your device
- & pisable DNS wokep
- at set the domain norme to contacom
- * create a user of your choosing with a strong encrypted password.
- & Generale 1024-bit PSA (cey). The name for the keys will be : RTA. COMA. com choose the size of the key modulus in the range of 360 to 2048 for your general purpose keys.

choosing a key modules often greater than 512 may take a

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few minutes.

- * Block anyone for three minutes who fails to log in after four attempts within a two-minute period.
- a configure all VTY lines for SSH access and use the local user profiles for authentication.
- * set the EXEC mode time out to 6 minutes VTY lines
- & save the configuration to NURAM and close command prompt
- Access the command prompt on the desktop of PCA to establish an SSH connection to RTA

Configure Basic Security on the switch 1.

configure switch Swi with corresponding security measures. Refer to the configuration steps on the vouter if you need additional assistance.

- # click on swi and select the cui tab
- so configure the hostname as swi
- * Configure IP addressing on SW, Vlan, and enable the interfaces
- * configure the default gateway address
- # Disable all unused switch porta
- & Repeat the same steps from here as you did for the router,

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source codes-

Routes configuration from PCA

Router > enable

Parter # config t

Poutes (config) # hostname RTA

PtA(config) # interface 90/0

P-tA (config-if)#ip address 172.16.1.1 255.25.25.0

& TA (config-if) the abutdown

RTA Coonfig-if) # exit

RTA (wyig) # service password-encryption

RTA (config)# security panword min_length 10

RTA (contig) # no ip domain lookup

RTA Ceonfig)# ip domain-name CCNIA.com

RTA Config H Wername secret

RTA Clonfig) # crypto bey generalt rsa

thow many bits in the moduleus [512]: 1024

RTA Config)# luga block-for 180 attempts 4 within 120

RTACLONGIG) # line vty 0 4

PtA Ceonfig - line) # transport input sich

R tA (config-line) #ex ec-timeout 6

RTA Ceongies - line) # exit

RTA Ceonfig) # exit

PETA# copy running -config startup-config Destination filenamo [startup-config])

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RTAHLONFig t

PTA(config) # enable servet pragrav2004

PtA(config) # exit

Switch configuration:

switch > enable

switch # config t

switch config) # hostname sw,

SWI (config) # interface vlan1

SWI (config-17) #ip address 172.16.1.2.255.25.05.0

SW/ (config-if) # no shutdown

SWI (config-if)# ip default-gateway 172.16.1.1

Swillionfig) # interface range Fol2-24, Grol2

(W) (config-if-range) # smultdown

SwiCconfig-if-range) # exit-

Sw/ Lionfig) # service password - encryption

SWI Config) # enable secret

Sw/Config)# no ip domain-Lookerp

Swilconfig) It ip domain-name contacom

Sw, Config) # cesername secret

Sw/Config) # Crypto Key generate 15a

those many pits in the modulus [512]:1024

Sw1(wnfig) #exit

SWI # copy running-config stocker-config

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Destination filename [startup-config]?

SWI (config)# line vty 0 to 15

SWI Centig-line) # transport input ssh

SWI (config-line)# logist. local SWI (config-line)# exec-timeout 6

Swilconfig-lines#exit

Sw, (config) # exit

Switt copy running-config startup-config

Destination filename (startup-config]

[OK]

Perults- secure passwords were configured and som was enabled.