Instituto técnico privado de administração e serviços
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Comandos de R.C

Sala: 10
Classe: 11ª
Turno: Tarde
Disciplina: R.C
Turma: 11IGT10
Curso: Gestão de Informática

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LUANDA 2025 / 2026

Configuração de Vlan Native

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#vlan 10

Switch(config-vlan)#name IT

Switch(config-vlan)#exit

Switch(config)#

Switch(config)#vlan 20

Switch(config-vlan)#name RH

Switch(config-vlan)#exit

Switch(config)#

Switch(config)#vlan 99

Switch(config-vlan)#name Native

Switch(config-vlan)#exit

Switch(config)#

Switch(config)#do show vlan

Switch(config)#interface range f0/1-2

Switch(config-if-range)#switchport mode trunk

Switch(config-if-range)#exit

Switch(config)#

Switch(config)#do show interface trunk

Switch(config)#interface range f0/1-2

Switch(config-if-range)#switchport trunk native vlan 99

Switch(config-if-range)#exit

Switch(config)#

Switch(config)#do show interface trunk

Configurando Vlan 2

```
Switch>enable

Switch#conf t

Switch(config)#hostname SWA-1

SWA-1(config)#line console 0

SWA-1(config-line)#password C1sc0

SWA-1(config-line)#login

SWA-1(config-line)#exit

SWA-1(config)#enable password C1sc0

SWA-1(config)#enable secret C1sc0

SWA-1(config)#line vty 0 15

SWA-1(config-line)#password C1sc0

SWA-1(config-line)#login

SWA-1(config-line)#exit

SWA-1(config)#banner motd #Configurando Vlan no SWA-1#

SWA-1(config)#service password-encryption

SWA-1(config)#interface vlan 1

SWA-1(config-if)#ip address 192.168.1.254 255.255.255.0

SWA-1(config-if)#no shutdown

SWA-1(config-if)#

SWA-1(config-if)#exit

SWA-1(config)#Vlan 10

SWA-1(config-vlan)#name TI

SWA-1(config-vlan)#exit

SWA-1(config)#Vlan 20

SWA-1(config-vlan)#name ADM

SWA-1(config-vlan)#exit

SWA-1(config)#Vlan 30

SWA-1(config-vlan)#name RH

SWA-1(config-vlan)#exit

SWA-1(config)#exit

SWA-1#
```

SWA-1#show vlan brief

SWA-1#conf t

SWA-1(config)#interface range f0/1 - 2

SWA-1(config-if-range)#switchport mode access

SWA-1(config-if-range)#switchport access vlan 10

SWA-1(config-if-range)#exit

SWA-1(config)#interface range f0/10 - 11

SWA-1(config-if-range)#switchport mode access

SWA-1(config-if-range)#switchport access vlan 20

SWA-1(config-if-range)#exit

SWA-1(config)#interface range f0/20 - 21

SWA-1(config-if-range)#switchport mode access

SWA-1(config-if-range)#switchport access vlan 30

SWA-1(config-if-range)#exit

SWA-1(config)#exit

SWA-1#

SWA-1#show vlan brief

SWA-1#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

SWA-1#copy running-config tftp

Address or name of remote host []? 192.168.1.24

Destination filename [SWA-1-confg]?

Writing running-config....!!

[OK - 1538 bytes]

1538 bytes copied in 3.014 secs (510 bytes/sec)

SWA-1#

Configuração de permissões e negações em Vlans

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname S-1

S-1(config)#

S-1(config)#vlan 10

S-1(config-vlan)#name IT

S-1(config-vlan)#exit

S-1(config)#

S-1(config)#vlan 20

S-1(config-vlan)#name RH

S-1(config-vlan)#exit

S-1(config)#

S-1(config)#vlan 30

S-1(config-vlan)#name FIN

S-1(config-vlan)#exit

S-1(config)#

S-1(config)#vlan 40

S-1(config-vlan)#name HACKER1

S-1(config-vlan)#exit

S-1(config)#

S-1(config)#vlan 50

S-1(config-vlan)#name HACKER2

S-1(config-vlan)#exit

S-1(config)#do show vlan brief

S-1(config)#interface range f0/3-8

S-1(config-if-range)#switchport mode access

S-1(config-if-range)#switchport access vlan 10

S-1(config-if-range)#exit

S-1(config)#

S-1(config)#interface range f0/9-12

S-1(config-if-range)#switchport mode access

S-1(config-if-range)#switchport access vlan 20

S-1(config-if-range)#exit

S-1(config)#

S-1(config)#interface range f0/13-16

S-1(config-if-range)#switchport mode access

S-1(config-if-range)#switchport access vlan 30

S-1(config-if-range)#exit

S-1(config)#

S-1(config)#do show vlan brief

S-1(config)#

S-1(config)#interface range f0/1-2

S-1(config-if-range)#switchport mode trunk

S-1(config-if-range)#do show interface trunk

-1(config-if-range)#switchport trunk allowed vlan except 50

S-1(config-if-range)#

S-1(config-if-range)#switchport trunk allowed vlan 10,20,30

S-1(config-if-range)#

S-1(config-if-range)#do show interface trunk

S-1(config)#do wr

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname S-2

S-2(config)#vlan 10

S-2(config-vlan)#name IT

S-2(config-vlan)#exit

S-2(config)#

S-2(config)#vlan 20

S-2(config-vlan)#name RH

S-2(config-vlan)#exit

S-2(config)#

S-2(config)#vlan 30

S-2(config-vlan)#name FIN

S-2(config-vlan)#exit

S-2(config)#

S-2(config)#vlan 40

S-2(config-vlan)#name HACKER1

S-2(config-vlan)#exit

S-2(config)#

S-2(config)#vlan 50

S-2(config-vlan)#name HACKER2

S-2(config-vlan)#exit

S-2(config)#

S-2(config)#do show vlan brief

S-2(config)#

S-2(config)#interface range f0/3-8

S-2(config-if-range)#switchport mode access

S-2(config-if-range)#switchport access vlan 10

S-2(config-if-range)#exit

S-2(config)#

S-2(config)#interface range f0/9-12

S-2(config-if-range)#switchport mode access

S-2(config-if-range)#switchport access vlan 20

S-2(config-if-range)#exit

S-2(config)#

S-2(config)#interface range f0/13-16

S-2(config-if-range)#switchport mode access

S-2(config-if-range)#switchport access vlan 30

S-2(config-if-range)#exit

S-2(config)#

S-2(config)#do show vlan brief

S-2(config)#interface range f0/1-2

S-2(config-if-range)#switchport mode trunk

S-2(config-if-range)#do show interface trunk

S-2(config)#do wr

Configuração de Vlans Mode Trunk Protocol (VTP)

Switch>enable

Switch#config t

Switch(config)#hostname SW-1

SW-1(config)#Vlan 10

SW-1(config-vlan)#Name Vendas

SW-1(config-vlan)#exit

SW-1(config)#Vlan 20

SW-1(config-vlan)#Name Financas

SW-1(config-vlan)#exit

SW-1(config)#interface f0/6

SW-1(config-if)#Vlan 10

SW-1(config-vlan)#exit

SW-1(config)#interface f0/6

SW-1(config-if)#interface range f0/6 - f0/11

SW-1(config-if-range)#switchport access Vlan 10

SW-1(config-if-range)#exit

SW-1(config)#exit

SW-1#

SW-1#show vlan brief

SW-1(config)#interface range f0/12 - f0/23

SW-1(config-if-range)#switchport access Vlan 20

SW-1(config-if-range)#exit

SW-1(config)#exit

SW-1#show vlan brief

SW-1(config)#interface f0/24

SW-1(config-if)#switchport mode trunk

Switch>enable

Switch#conf t

Switch(config)#hostname SW-2

SW-2(config)#Vlan 2

SW-2(config-vlan)#exit

SW-2(config)#Vlan 10

SW-2(config-vlan)#Name Compras

SW-2(config-vlan)#exit

SW-2(config)#Vlan 20

SW-2(config-vlan)#Name Marketing

SW-2(config-vlan)#exit

SW-2(config)#interface range f0/6 - f0/11

SW-2(config-if-range)#switchport access Vlan 10

SW-2(config-if-range)#exit

SW-2(config)#interface range f0/12 - f0/23

SW-2(config-if-range)#switchport access Vlan 20

SW-2(config-if-range)#exit

SW-2(config)#exit

SW-2#

SW-2#show vlan brief

Configurar Vlan & VTP - Sevidor e Clientes Vlans

Switch>enable

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#no ip domain-lookup

Switch(config)#hostname SWA-1

SWA-1(config)#Banner motd #Configurar servidor Vlan#

SWA-1(config)#enable secret C15c0

SWA-1(config)#line console 0

SWA-1(config-line)#password C15c0

SWA-1(config-line)#login

SWA-1(config-line)#exit

SWA-1(config)#line vty 0 15

SWA-1(config-line)#password C15c0

SWA-1(config-line)#login

```
SWA-1(config-line)#exit

SWA-1(config)#service password-encryption

SWA-1(config)#interface Vlan 1

SWA-1(config-if)#ip address 192.168.1.254 255.255.255.0

SWA-1(config-if)#no shutdown

SWA-1(config-if)#

SWA-1(config-if)#exit

SWA-1(config)#Vlan 10

SWA-1(config-vlan)#name TI

SWA-1(config-vlan)#exit

SWA-1(config)#Vlan 20

SWA-1(config-vlan)#name ADM

SWA-1(config-vlan)#exit

SWA-1(config)#Vlan 30

SWA-1(config-vlan)#name RH

SWA-1(config-vlan)#exit

SWA-1(config)#exit

SWA-1#

SWA-1#show vlan brief

SWA-1#conf t

SWA-1(config)#interface f0/2

SWA-1(config-if)#switchport mode access

SWA-1(config-if)#switchport access Vlan 10

SWA-1(config-if)#exit

SWA-1(config)#interface f0/4

SWA-1(config-if)#switchport mode access

SWA-1(config-if)#switchport access Vlan 20

SWA-1(config-if)#exit

SWA-1(config)#interface f0/8

SWA-1(config-if)#switchport mode access

SWA-1(config-if)#switchport access Vlan 30

SWA-1(config-if)#exit
```

SWA-1(config)#exit

SWA-1#

SWA-1#show vlan brief

SWA-1(config)#interface f0/1

SWA-1(config-if)#switchport mode access

SWA-1(config-if)#switchport access Vlan 10

SWA-1(config-if)#exit

SWA-1(config)#interface f0/5

SWA-1(config-if)#switchport mode access

SWA-1(config-if)#switchport access Vlan 20

SWA-1(config-if)#exit

SWA-1(config)#interface f0/9

SWA-1(config-if)#switchport mode access

SWA-1(config-if)#switchport access Vlan 30

SWA-1(config-if)#exit

SWA-1(config)#exit

SWA-1#

SWA-1#show vlan brief

SWA-1#conf t

SWA-1(config)#vtp mode server

Device mode already VTP SERVER.

SWA-1(config)#vtp version 2

SWA-1(config)#vtp domain teste

SWA-1(config)#interface range f0/20 - 22

SWA-1(config-if-range)#switchport mode trunk

SWA-1(config-if-range)#

Switch>enable

Switch#conf t

Switch(config)#no ip domain-lookup

Switch(config)#hostname Cl-1

Cl-1(config)#vtp mode client

Setting device to VTP CLIENT mode.

Cl-1(config)#vtp version 2

Cannot modify version in VTP client mode

Cl-1(config)#vtp domain teste

Domain name already set to teste.

Cl-1(config)#exit

Cl-1#

Cl-1#show vlan brief

Cl-1#conf t

Cl-1(config)#interface f0/1

Cl-1(config-if)#switchport mode access

Cl-1(config-if)#switchport access vlan 10

Cl-1(config-if)#exit

Cl-1(config)#exit

Cl-1#

Cl-1#show vlan brief

Switch>enable

Switch#conf t

Switch(config)#no ip domain-lookup

Switch(config)#hostname Cl-2

Cl-2(config)#vtp mode client

Setting device to VTP CLIENT mode.

Cl-2(config)#vtp version 2

Cl-2(config)#vtp domain teste

Domain name already set to teste.

Cl-2(config)#interface f0/5

Cl-2(config-if)#switchport mode access

Cl-2(config-if)#switchport access vlan 20

Cl-2(config-if)#exit

Cl-2(config)#exit

Cl-2#

Cl-2#show vlan brief

Switch>enable

Switch#conf t

Switch(config)#no ip domain-lookup

Switch(config)#hostname Cl-3

Cl-3(config)#vtp mode client

Setting device to VTP CLIENT mode.

Cl-3(config)#vtp version 2

Cannot modify version in VTP client mode

Cl-3(config)#vtp domain teste

Domain name already set to teste.

Cl-3(config)#interface f0/9

Cl-3(config-if)#switchport mode access

Cl-3(config-if)#switchport access vlan 30

Cl-3(config-if)#exit

Cl-3(config)#exit

Cl-3#

Cl-3#show vlan brief

Configurações basica do Switch III

enable

disable

Configure terminal

show running-config

enable password aluno (sem criptografia)

enable secret aluno (criptografa a senha)

no enable secret (tirar uma senha configurada)

no enable password (tirar uma senha configurada)

line console 0 (configura uma senha antes de entrar no modo enable ou acesso local)

Password aluno

login

line vty 0 15 (configura o acesso remoto)

Password aluno

login

no password (elimina a senha)

no login (elimina o login)

Configurar usuários e senhas na linha console

Username Katia password aluna

Username Conde password professor

line console 0

login local

Caso queira configurar usuário e senhas na linha Vty é só fazer o mesmo. Mas como já foram configurado vamos fazer o seguinte:

line vty 0 15

login local

Configurar as interfaces

interface f0/1

speed 100 (configura a velocidade da porta para 100)

duplex full (como vai operar a comunicação)

description (Porta f0/1)

aplicando para todas as portas do switch

interface range f0/1 - 24

description

duplex full

speed 100

show interface f0/1 (para ver a porta fastethernet)

show interface status (mostra o estado das portas de forma resumida)

show mac-address-table (mostra a table mac das portas do switch)

wr erase (apaga as configurações do switch)

Configuração de Etherchannel usando LACP

---------------------S-1------------------------

S-1>enable

S-1#configure terminal

S-1(config)#interface range f0/1-3

S-1(config-if-range)#channel-group 1 mode active

S-1(config-if-range)#

S-1(config-if-range)#exit

S-1(config)#interface port-channel 1

S-1(config-if)#switchport mode trunk

S-1(config-if)#exit

S-1(config)#do show etherchannel

--------------------------S-2------------------------

S-2>enable

S-2#configure terminal

S-2(config)#interface range f0/4-6

S-2(config-if-range)#channel-group 1 mode passive

S-2(config-if-range)#

S-2(config-if-range)#exit

S-2(config)#interface port-channel 1

S-2(config-if)#switchport mode trunk

S-2(config-if)#exit

S-2(config)#

S-2(config)#interface range f0/1-3

S-2(config-if-range)#channel-group 2 mode active

S-2(config-if-range)#

S-2(config-if-range)#exit

S-2(config)#interface port-channel 2

S-2(config-if)#switchport mode trunk

S-2(config-if)#exit

S-2(config)#do show etherchannel

--------------------------MLS-1----------------------

MLS-1>enable

MLS-1#configure terminal

MLS-1(config)#interface range g1/0/1-3

MLS-1(config-if-range)#channel-group 2 mode passive

MLS-1(config-if-range)#

MLS-1(config-if-range)#exit

MLS-1(config)#interface port-channel 2

MLS-1(config-if)#switchport mode trunk

MLS-1(config-if)#exit

MLS-1(config)#

MLS-1(config)#interface range g1/0/4-6

MLS-1(config-if-range)#channel-group 3 mode active

MLS-1(config-if-range)#

MLS-1(config-if-range)#exit

MLS-1(config)#interface port-channel 3

MLS-1(config-if)#switchport mode trunk

MLS-1(config-if)#exit

MLS-1(config)#do show etherchannel

---------------------------S-3------------------------

S-3>enable

S-3#configure terminal

S-3(config)#interface range f0/1-3

S-3(config-if-range)#channel-group 3 mode passive

S-3(config-if-range)#exit

S-3(config)#interface port-channel 3

S-3(config-if)#switchport mode trunk

S-3(config-if)#exit

S-3(config)#

S-3(config)#interface range f0/4-6

S-3(config-if-range)#channel-group 4 mode active

S-3(config-if-range)#exit

S-3(config)#interface port-channel 4

S-3(config-if)#switchport mode trunk

S-3(config-if)#exit

S-3(config)#do show etherchannel

------------------------------S-4-----------------------

S-4>enable

S-4#configure terminal

S-4(config)#interface range f0/1-3

S-4(config-if-range)#channel-group 4 mode passive

S-4(config-if-range)#

Creating a port-channel interface Port-channel 4

S-4(config-if-range)#exit

S-4(config)#interface port-channel 4

S-4(config-if)#switchport mode trunk

S-4(config-if)#exit

S-4(config)#do show etherchannel

<u>Configuração de Etherchannel usando PAgP</u>

----------------------------S-1-------------------------

S-1>enable

S-1#configure terminal

S-1(config)#interface range f0/1-3

S-1(config-if-range)#channel-group 1 mode desirable

S-1(config-if-range)#

S-1(config-if-range)#exit

S-1(config)#interface port-channel 1

S-1(config-if)#switchport mode trunk

S-1(config-if)#exit

S-1(config)#do show etherchannel

----------------------------MLS-1----------------------

MLS-1>enable

MLS-1#configure terminal

MLS-1(config)#interface range g1/0/1-3

MLS-1(config-if-range)#channel-group 1 mode auto

MLS-1(config-if-range)#exit

MLS-1(config)#interface port-channel 1

MLS-1(config-if)#switchport mode trunk

MLS-1(config-if)#exit

MLS-1(config)#

MLS-1(config)#interface range g1/0/4-6

MLS-1(config-if-range)#channel-group 2 mode desirable

MLS-1(config-if-range)#

MLS-1(config-if-range)#exit

MLS-1(config)#interface port-channel 2

MLS-1(config-if)#switchport mode trunk

MLS-1(config-if)#exit

MLS-1(config)#do show etherchannel

----------------------------S-2-------------------------

S-2>enable

S-2#configure terminal

S-2(config)#interface range f0/1-3

S-2(config-if-range)#channel-group 2 mode auto

S-2(config-if-range)#

S-2(config-if-range)#exit

S-2(config)#interface port-channel 2

S-2(config-if)#switchport mode trunk

S-2(config-if)#exit

S-2(config)#do show etherchannel