Travaux pratiques 8.5.1 : dépannage des réseaux d'entreprise 1

Diagramme de topologie

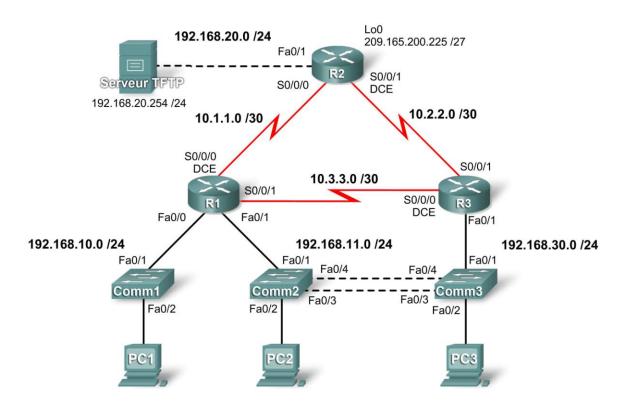


Table d'adressage

Périphérique	Interface	Adresse IP	Masque de sous-réseau	Passerelle par défaut
R1	Fa0/0	192.168.10.1	255.255.255.0	N/D
	Fa0/1	192.168.11.1	255.255.255.0	N/D
	S0/0/0	10.1.1.1	255.255.255.252	N/D
	S0/0/1	10.3.3.1	255.255.255.252	N/D
R2	Fa0/1	192.168.20.1	255.255.255.0	N/D
	S0/0/0	10.1.1.2	255.255.255.252	N/D
	S0/0/1	10.2.2.1	255.255.255.252	N/D
	Lo0	209.165.200.225	255.255.255.224	209.165.200.226
R3	Fa0/1	N/D	N/D	N/D
	Fa0/1.11	192.168.11.3	255.255.255.0	N/D
	Fa0/1.30	192.168.30.1	255.255.255.0	N/D
	S0/0/0	10.3.3.2	255.255.255.252	N/D
	S0/0/1	10.2.2.2	255.255.255.252	N/D
Comm1	VLAN10	Protocole DHCP	255.255.255.0	N/D
Comm2	VLAN11	192.168.11.2	255.255.255.0	N/D

Comm3	VLAN30	192.168.30.2	255.255.255.0	N/D
PC1	Carte réseau	192.168.10.10	255.255.255.0	192.168.10.1
PC2	Carte réseau	192.168.11.10	255.255.255.0	192.168.11.1
PC3	Carte réseau	192.168.30.10	255.255.255.0	192.168.30.1
Serveur TFTP	Carte réseau	192.168.20.254	255.255.255.0	192.168.20.1

Objectifs pédagogiques

À l'issue de ces travaux pratiques, vous serez en mesure d'effectuer les tâches suivantes :

- Câbler un réseau conformément au diagramme de topologie
- Supprimer la configuration de démarrage et recharger un routeur pour revenir aux paramètres par défaut
- Charger les routeurs et les commutateurs avec les scripts fournis
- Identifier et corriger toutes les erreurs réseau
- Documenter le réseau corrigé

Scénario

Vous êtes chargé de corriger les erreurs de configuration du réseau de la société. Dans le cadre de cet exercice, n'utilisez pas de protection par nom d'utilisateur ou mot de passe sur les lignes de console, afin d'empêcher tout verrouillage accidentel. Dans ce scénario, utilisez **ciscoccna** pour tous les mots de passe.

Remarque : cet exercice étant un récapitulatif, il vous sera nécessaire d'utiliser l'ensemble des connaissances et des techniques de dépannage acquises au cours des exercices et travaux pratiques précédents.

Conditions requises

- Comm2 correspond à la racine Spanning Tree du réseau local virtuel VLAN 11 et Comm3 à celle du réseau local virtuel VLAN 30.
- Comm3 correspond à un serveur VTP (VLAN Trunking Protocol) dont le client est Comm2.
- La liaison série entre les routeurs R1 et R2 est de type Frame Relay. Assurez-vous que chaque routeur peut envoyer une requête ping à sa propre interface Frame Relay.
- La liaison série entre R2 et R3 utilise l'encapsulation HDLC.
- La liaison série entre R1 et R3 utilise le protocole PPP.
- La liaison série entre R1 et R3 est authentifiée à l'aide du protocole CHAP.
- En tant que routeur connecté à Internet, R2 doit utiliser des procédures de connexion sécurisée.
- Toutes les lignes vty, à l'exception de celles appartenant à R2, n'autorisent que les connexions depuis les sous-réseaux affichés dans le diagramme de topologie, excluant ainsi l'adresse publique.

Indice:

R2# telnet 10.1.1.1 /source-interface loopback 0

Trying 10.1.1.1 ...

% Connection refused by remote host

- L'usurpation de l'adresse IP source doit être évitée sur tous les liens non connectés à d'autres routeurs.
- Les protocoles de routage doivent être sécurisés. Tous les routeurs RIP doivent utiliser l'authentification MD5.
- R3 ne doit pas pouvoir établir de connexion telnet avec R2 au moyen de la liaison série directement connectée.

- R3 peut accéder aux réseaux locaux virtuels VLAN 11 et VLAN 30 via son port Fast Ethernet 0/0.
- Le serveur TFTP ne doit pas recevoir de trafic ayant une adresse d'origine située hors du sousréseau. Tous les périphériques ont accès au serveur TFTP.
- Tous les périphériques du sous-réseau 192.168.10.0 doivent pouvoir obtenir leurs adresses IP auprès du service DHCP de R1. Cela concerne notamment Comm1.
- R1 doit être accessible via SDM.
- Toutes les adresses indiquées dans le diagramme doivent être accessibles à partir de tous les périphériques.

Tâche 1 : chargement des routeurs avec les scripts fournis

```
!-----
1
!-----
no service password-encryption
1
hostname R1
boot-start-marker
boot-end-marker
security passwords min-length 6
enable secret 5 ciscoccna
!
ip cef
!
ip dhcp pool Access1
  network 192.168.10.0 255.255.255.0
  default-router 192.168.10.1
1
no ip domain lookup
username R3 password 0 ciscoccna
username ccna password 0 ciscoccna
interface FastEthernet0/0
ip address 192.168.10.1 255.255.255.0
ip rip authentication mode md5
 ip rip authentication key-chain RIP KEY
no shutdown
interface FastEthernet0/1
ip address 192.168.11.1 255.255.255.0
 ip rip authentication mode md5
ip rip authentication key-chain RIP KEY
no shutdown
interface Serial0/0/0
 ip address 10.1.1.1 255.255.255.252
 ip rip authentication mode md5
 ip rip authentication key-chain RIP KEY
 encapsulation frame-relay
```

```
clockrate 128000
 frame-relay map ip 10.1.1.1 201
 frame-relay map ip 10.1.1.2 201 broadcast
 no frame-relay inverse-arp
no shutdown
 1
interface Serial0/0/1
ip address 10.3.3.1 255.255.255.252
 ip rip authentication mode md5
 ip rip authentication key-chain RIP KEY
 encapsulation ppp
ppp authentication chap
no shutdown
!
!
router rip
version 2
passive-interface default
network 192.168.10.0
network 192.168.11.0
no auto-summary
!
ip classless
no ip http server
ip access-list standard Anti-spoofing
permit 192.168.10.0 0.0.0.255
deny any
ip access-list standard VTY
permit 10.0.0.0 0.255.255.255
permit 192.168.10.0 0.0.0.255
permit 192.168.11.0 0.0.0.255
permit 192.168.20.0 0.0.0.255
permit 192.168.30.0 0.0.0.255
line con 0
 exec-timeout 0 0
logging synchronous
line aux 0
line vty 0 4
access-class VTY in
login local
!
end
                  R2
1-----
no service password-encryption
hostname R2
security passwords min-length 6
enable secret ciscoccna
!
aaa new-model
```

```
aaa authentication login LOCAL AUTH local
aaa session-id common
ip cef
!
no ip domain lookup
key chain RIP KEY
key 1
 key-string cisco
username ccna password 0 ciscoccna
interface Loopback0
description Simulated ISP Connection
ip address 209.165.200.245 255.255.255.224
interface FastEthernet0/0
no ip address
 shutdown
 duplex auto
 speed auto
interface FastEthernet0/1
ip address 192.168.20.1 255.255.255.0
ip access-group TFTP out
ip access-group Anti-spoofing in
ip nat outside
 duplex auto
 speed auto
interface Serial0/0/0
ip address 10.1.1.2 255.255.255.0
 ip nat inside
encapsulation frame-relay
 no keepalive
 frame-relay map ip 10.1.1.1 201 broadcast
no frame-relay inverse-arp
interface Serial0/0/1
 ip address 10.2.2.1 255.255.255.0
ip access-group R3-telnet in
 ip nat inside
 ip rip authentication mode md5
 ip rip authentication key-chain RIP KEY
 clockrate 128000
!
router rip
version 2
passive-interface default
no passive-interface Serial0/0/0
 no passive-interface Serial0/0/1
 network 10.0.0.0
 network 192.168.20.0
```

```
default-information originate
no auto-summary
ip classless
ip route 0.0.0.0 0.0.0.0 209.165.200.226
no ip http server
ip nat inside source list NAT interface FastEthernet0/0 overload
ip access-list standard Anti-spoofing
permit 192.168.20.0 0.0.0.255
deny any
ip access-list standard NAT
permit 10.0.0.0 0.255.255.255
permit 192.168.0.0 0.0.255.255
ip access-list extended R3-telnet
deny tcp host 10.2.2.2 host 10.2.2.1 eq telnet
deny tcp host 10.3.3.2 host 10.2.2.1 eq telnet
deny tcp host 192.168.11.3 host 10.2.2.1 eq telnet
deny tcp host 192.168.30.1 host 10.2.2.1 eq telnet
permit ip any any
ip access-list standard TFTP
permit 192.168.20.0 0.0.0.255
!
control-plane
line con 0
exec-timeout 0 0
logging synchronous
line aux 0
exec-timeout 15 0
logging synchronous
login authentication local auth
transport output telnet
line vty 0 4
exec-timeout 15 0
logging synchronous
login authentication local auth
transport input telnet
!
end
1-----
                 R3
!-----
no service password-encryption
hostname R3
security passwords min-length 6
enable secret ciscoccna
no aaa new-model
ip cef
```

```
no ip domain lookup
key chain RIP KEY
key 1
 key-string cisco
username R1 password 0 ciscoccna
username ccna password 0 ciscoccna
interface FastEthernet0/1
no shutdown
interface FastEthernet0/1.11
encapsulation dot10 11
 ip address 192.168.11.3 255.255.255.0
no snmp trap link-status
interface FastEthernet0/1.30
encapsulation dot1Q 30
ip address 192.168.30.1 255.255.255.0
ip access-group Anti-spoofing in
no snmp trap link-status
1
interface Serial0/0/0
ip address 10.3.3.2 255.255.255.252
 encapsulation ppp
 clockrate 125000
ppp authentication chap
interface Serial0/0/1
 ip address 10.2.2.2 255.255.255.252
!
router rip
version 2
passive-interface default
no passive-interface FastEthernet0/1.11
no passive-interface FastEthernet0/1.30
no passive-interface Serial0/0/0
no passive-interface Serial0/0/1
network 10.0.0.0
network 192.168.11.0
network 192.168.30.0
no auto-summary
ip classless
ip http server
ip access-list standard Anti-spoofing
permit 192.168.30.0 0.0.0.255
deny any
ip access-list standard VTY
permit 10.0.0.0 0.255.255.255
permit 192.168.10.0 0.0.0.255
 permit 192.168.11.0 0.0.0.255
```

```
permit 192.168.20.0 0.0.0.255
permit 192.168.30.0 0.0.0.255
control-plane
1
line con 0
exec-timeout 0 0
logging synchronous
line aux 0
exec-timeout 15 0
logging synchronous
line vty 0 4
access-class VTY in
exec-timeout 15 0
logging synchronous
login local
!
end
1
               Comm1
!-----
no service password-encryption
hostname Comm1
security passwords min-length 6
enable secret ciscoccna
no aaa new-model
vtp domain CCNA Troubleshooting
vtp mode transparent
vtp password ciscoccna
ip subnet-zero
no ip domain-lookup
no file verify auto
spanning-tree mode pvst
spanning-tree extend system-id
vlan internal allocation policy ascending
!
vlan 10
1
interface FastEthernet0/1
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/2
 switchport access vlan 10
switchport mode access
interface range FastEthernet0/3-24
interface GigabitEthernet0/1
 shutdown
```

```
interface GigabitEthernet0/2
shutdown
interface Vlan1
no ip address
no ip route-cache
interface Vlan10
ip address dhcp
no ip route-cache
ip default-gateway 192.168.10.1
ip http server
control-plane
line con 0
exec-timeout 0 0
logging synchronous
line vty 0 4
password ciscoccna
 login
line vty 5 15
no login
!
end
               Comm2
!-----
no service password-encryption
hostname Comm2
security passwords min-length 6
enable secret ciscoccna
no aaa new-model
vtp domain CCNA Troubleshooting
vtp mode transparent
vtp password ciscoccna
ip subnet-zero
no ip domain-lookup
no file verify auto
spanning-tree mode rapid-pvst
spanning-tree extend system-id
spanning-tree vlan 11 priority 24576
spanning-tree vlan 30 priority 28672
vlan internal allocation policy ascending
interface FastEthernet0/1
 switchport access vlan 11
```

```
switchport mode access
interface FastEthernet0/2
switchport access vlan 11
switchport mode access
interface FastEthernet0/3
 switchport trunk native vlan 99
switchport trunk allowed vlan 11,30
switchport mode trunk
interface FastEthernet0/4
switchport trunk native vlan 99
switchport trunk allowed vlan 11,30
switchport mode trunk
1
interface range FastEthernet0/5-24
shutdown
interface GigabitEthernet0/1
shutdown
!
interface GigabitEthernet0/2
shutdown
interface Vlan1
no ip address
no ip route-cache
interface Vlan11
ip address 192.168.11.2 255.255.255.0
no ip route-cache
ip http server
control-plane
line con 0
exec-timeout 0 0
logging synchronous
line vty 0 4
password ciscoccna
login
line vty 5 15
no login
!
1-----
               Comm3
!-----
no service password-encryption
hostname Comm3
security passwords min-length 6
enable secret ciscoccna
```

```
no aaa new-model
vtp domain CCNA troubleshooting
vtp mode server
vtp password ciscoccna
ip subnet-zero
no ip domain-lookup
no file verify auto
spanning-tree mode rapid-pvst
spanning-tree extend system-id
spanning-tree vlan 11 priority 28672
spanning-tree vlan 30 priority 24576
vlan internal allocation policy ascending
interface FastEthernet0/1
switchport trunk allowed vlan 30
switchport mode trunk
interface FastEthernet0/2
 switchport access vlan 30
switchport mode access
!
interface FastEthernet0/3
switchport trunk native vlan 99
 switchport trunk allowed vlan 11,30
switchport mode trunk
interface FastEthernet0/4
 switchport trunk native vlan 99
switchport trunk allowed vlan 11,30
 switchport mode trunk
interface range FastEthernet0/5-24
shutdown
1
interface GigabitEthernet0/1
shutdown
interface GigabitEthernet0/2
 shutdown
interface Vlan1
no ip address
no ip route-cache
interface Vlan30
ip address 192.168.30.2 255.255.255.0
no ip route-cache
ip default-gateway 192.168.30.1
ip http server
```

```
!
control-plane
!
line con 0
exec-timeout 5 0
logging synchronous
line vty 0 4
password ciscoccna
login
line vty 5 15
no login
!
end
```

Tâche 2 : détection et correction de toutes les erreurs réseau

Tâche 3 : vérification de la conformité aux conditions requises

Tâche 4 : documentation du réseau corrigé

Tâche 5 : remise en état

Supprimez les configurations et rechargez les routeurs. Déconnectez le câblage et stockez-le dans un endroit sécurisé. Reconnectez le câblage souhaité et restaurez les paramètres TCP/IP pour les PC hôtes habituellement connectés aux autres réseaux (réseaux locaux de votre site ou Internet).

Autres configurations

```
1
                 R1
!-----
no service password-encryption
hostname R1
boot-start-marker
boot-end-marker
security passwords min-length 6
enable secret 5 ciscoccna
ip cef
1
ip dhcp pool Access1
  network 192.168.10.0 255.255.255.0
  default-router 192.168.10.1
no ip domain lookup
frame-relay switching
!
username R3 password 0 ciscoccna
username ccna password 0 ciscoccna
```

```
interface FastEthernet0/0
 ip address 192.168.10.1 255.255.255.0
 ip rip authentication mode md5
 ip rip authentication key-chain RIP KEY
no shutdown
interface FastEthernet0/1
 ip address 192.168.11.1 255.255.255.0
 ip rip authentication mode md5
 ip rip authentication key-chain RIP KEY
no shutdown
interface Serial0/0/0
 ip address 10.1.1.1 255.255.255.252
 ip rip authentication mode md5
 ip rip authentication key-chain RIP KEY
 encapsulation frame-relay
  clockrate 128000
 frame-relay map ip 10.1.1.1 201
 frame-relay map ip 10.1.1.2 201 broadcast
 no frame-relay inverse-arp
 no shutdown
 frame-relay intf-type dce
interface Serial0/0/1
 ip address 10.3.3.1 255.255.255.252
 ip rip authentication mode md5
 ip rip authentication key-chain RIP KEY
encapsulation ppp
 ppp authentication chap
no shutdown
!
router rip
version 2
passive-interface default
 network 10.0.0.0
network 192.168.10.0
network 192.168.11.0
no auto-summary
ip classless
no ip http server
ip access-list standard Anti-spoofing
permit 192.168.10.0 0.0.0.255
deny any
ip access-list standard VTY
 permit 10.0.0.0 0.255.255.255
permit 192.168.10.0 0.0.0.255
permit 192.168.11.0 0.0.0.255
permit 192.168.20.0 0.0.0.255
permit 192.168.30.0 0.0.0.255
```

```
line con 0
 exec-timeout 0 0
 logging synchronous
line aux 0
line vty 0 4
access-class VTY in
login local
!
end
!-----
                 R2
|-----
no service password-encryption
hostname R2
security passwords min-length 6
enable secret ciscoccna
aaa new-model
aaa authentication login LOCAL AUTH local
aaa session-id common
ip cef
no ip domain lookup
key chain RIP KEY
key 1
 key-string cisco
username ccna password 0 ciscoccna
interface Loopback0
description Simulated ISP Connection
ip address 209.165.200.245 255.255.255.224
interface FastEthernet0/0
 ip address 192.168.20.1 255.255.255.0
ip access-group TFTP out
 ip access-group Anti-spoofing in
ip nat outside
 duplex auto
 speed auto
interface FastEthernet0/1
no ip address
 shutdown
duplex auto
speed auto
interface Serial0/0/0
 ip address 10.1.1.2 255.255.255.0
  ip nat inside
 encapsulation frame-relay
```

```
no keepalive
 frame-relay map ip 10.1.1.1 201 broadcast
 frame-relay map ip 10.1.1.2 201
no frame-relay inverse-arp
interface Serial0/0/1
 ip address 10.2.2.1 255.255.255.0
  ip access-group R3-telnet in
 ip nat inside
 ip rip authentication mode md5
 ip rip authentication key-chain RIP KEY
 clockrate 128000
!
router rip
version 2
passive-interface default
no passive-interface Serial0/0/0
no passive-interface Serial0/0/1
network 10.0.0.0
network 192.168.20.0
 default-information originate
no auto-summary
ip classless
ip route 0.0.0.0 0.0.0.0 209.165.200.226
no ip http server
ip nat inside source list NAT interface FastEthernet0/0 overload
ip access-list standard Anti-spoofing
permit 192.168.20.0 0.0.0.255
deny any
ip access-list standard NAT
permit 10.0.0.0 0.255.255.255
permit 192.168.0.0 0.0.255.255
ip access-list extended R3-telnet
 deny tcp host 10.2.2.2 host 10.2.2.1 eq telnet
 deny tcp host 10.3.3.2 host 10.2.2.1 eq telnet
       tcp host 192.168.11.3 host 10.2.2.1 eg telnet
       tcp host 192.168.30.1 host 10.2.2.1 eq telnet
permit ip any any
ip access-list standard TFTP
permit 192.168.20.0 0.0.0.255
!
control-plane
line con 0
 exec-timeout 0 0
 logging synchronous
line aux 0
 exec-timeout 15 0
logging synchronous
 login authentication local auth
```

```
transport output telnet
line vty 0 4
 exec-timeout 15 0
 logging synchronous
login authentication local auth
transport input telnet
!
end
!-----
                  R3
no service password-encryption
hostname R3
security passwords min-length 6
enable secret ciscoccna
no aaa new-model
ip cef
no ip domain lookup
key chain RIP KEY
key 1
 key-string cisco
username R1 password 0 ciscoccna
username ccna password 0 ciscoccna
interface FastEthernet0/1
no shutdown
interface FastEthernet0/1.11
encapsulation dot1Q 11
ip address 192.168.11.3 255.255.255.0
 no snmp trap link-status
interface FastEthernet0/1.30
encapsulation dot10 30
ip address 192.168.30.1 255.255.255.0
 ip access-group Anti-spoofing in
no snmp trap link-status
1
interface Serial0/0/0
ip address 10.3.3.2 255.255.255.252
 encapsulation ppp
 clockrate 125000
ppp authentication chap
interface Serial0/0/1
 ip address 10.2.2.2 255.255.255.252
router rip
```

```
version 2
 passive-interface default
 no passive-interface FastEthernet0/0,11
 no passive-interface FastEthernet0/0,30
 no passive-interface Serial0/0/0
 no passive-interface Serial0/0/1
network 10.0.0.0
network 192.168.11.0
network 192.168.30.0
no auto-summary
ip classless
ip http server
ip access-list standard Anti-spoofing
permit 192.168.30.0 0.0.0.255
deny any
ip access-list standard VTY
permit 10.0.0.0 0.255.255.255
permit 192.168.10.0 0.0.0.255
permit 192.168.11.0 0.0.0.255
permit 192.168.20.0 0.0.0.255
permit 192.168.30.0 0.0.0.255
control-plane
1
line con 0
exec-timeout 0 0
 logging synchronous
line aux 0
 exec-timeout 15 0
logging synchronous
line vty 0 4
 access-class VTY in
exec-timeout 15 \ 0
 logging synchronous
login local
end
                Comm1
no service password-encryption
hostname Comm1
security passwords min-length 6
enable secret ciscoccna
no aaa new-model
vtp domain CCNA Troubleshooting
vtp mode transparent
vtp password ciscoccna
ip subnet-zero
```

```
no ip domain-lookup
no file verify auto
spanning-tree mode pvst
spanning-tree extend system-id
vlan internal allocation policy ascending
vlan 10
interface FastEthernet0/1
switchport access vlan 10
switchport mode access
interface FastEthernet0/2
switchport access vlan 10
switchport mode access
interface range FastEthernet0/3-24
interface GigabitEthernet0/1
shutdown
interface GigabitEthernet0/2
shutdown
interface Vlan1
no ip address
no ip route-cache
interface Vlan10
ip address dhcp
no ip route-cache
ip default-gateway 192.168.10.1
ip http server
control-plane
line con 0
exec-timeout 0 0
logging synchronous
line vty 0 4
password ciscoccna
login
line vty 5 15
no login
!
end
1-----
               Comm2
!-----
no service password-encryption
hostname Comm2
```

```
security passwords min-length 6
enable secret ciscoccna
no aaa new-model
vtp domain CCNA Troubleshooting
vtp mode transparent
vtp password ciscoccna
ip subnet-zero
no ip domain-lookup
no file verify auto
spanning-tree mode rapid-pvst
spanning-tree extend system-id
spanning-tree vlan 11 priority 24576
spanning-tree vlan 30 priority 28672
vlan internal allocation policy ascending
interface FastEthernet0/1
 switchport access vlan 11
 switchport mode access
interface FastEthernet0/2
 switchport access vlan 11
 switchport mode access
interface FastEthernet0/3
 switchport trunk native vlan 99
 switchport trunk allowed vlan 11,30
 switchport mode trunk
interface FastEthernet0/4
switchport trunk native vlan 99
 switchport trunk allowed vlan 11,30
switchport mode trunk
!
interface range FastEthernet0/5-24
shutdown
interface GigabitEthernet0/1
 shutdown
interface GigabitEthernet0/2
shutdown
1
interface Vlan1
no ip address
no ip route-cache
interface Vlan11
 ip address 192.168.11.2 255.255.255.0
```

```
no ip route-cache
ip http server
control-plane
line con 0
exec-timeout 0 0
logging synchronous
line vty 0 4
password ciscoccna
login
line vty 5 15
no login
!
end
               Comm3
!-----
no service password-encryption
hostname Comm3
security passwords min-length 6
enable secret ciscoccna
no aaa new-model
vtp domain CCNA troubleshooting
vtp mode server
vtp password ciscoccna
ip subnet-zero
no ip domain-lookup
no file verify auto
spanning-tree mode rapid-pvst
spanning-tree extend system-id
spanning-tree vlan 11 priority 28672
spanning-tree vlan 30 priority 24576
vlan internal allocation policy ascending
interface FastEthernet0/1
switchport trunk allowed vlan 30
  switchport mode trunk
interface FastEthernet0/2
switchport access vlan 30
switchport mode access
interface FastEthernet0/3
 switchport trunk native vlan 99
 switchport trunk allowed vlan 11,30
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```
switchport mode trunk
interface FastEthernet0/4
 switchport trunk native vlan 99
 switchport trunk allowed vlan 11,30
switchport mode trunk
interface range FastEthernet0/5-24
 shutdown
interface GigabitEthernet0/1
shutdown
!
interface GigabitEthernet0/2
shutdown
interface Vlan1
no ip address
no ip route-cache
interface Vlan30
 ip address 192.168.30.2 255.255.255.0
no ip route-cache
ip default-gateway 192.168.30.1
ip http server
control-plane
line con 0
exec-timeout 5 0
logging synchronous
line vty 0 4
password ciscoccna
login
line vty 5 15
no login
end
```