1. Switch mode configured as transparent
vtp mode transparent
Switch(config)#vlan 4000
Switch(config-vlan)#private-vlan primary
%Private VLANs can only be configured when VTP is in transparent/off modes
in VTP version 1 or 2 .
In server/transparent/off modes in VTP version 3
when pruning is turned off

==
Secondary vlans
Private vlans
1.community : They can communicate with in their vlan
e.g pc1 and pc2 in vlan 4001 can communicate but they cannot communicate with other
communities and isolated vlans.

2.Isolated : They cannot communicate within the same vlan
e.g vlan 4003 pc5 and Pc6 : Pc5 cannot communicate with Pc6.

3.primary vlan can communicate with every one

Switch mode configured as server vlan (vtp ver 3)
/*
vtp domain abc
vtp pass cisco
vtp ver 3
vtp mode server vlan
exit
vtp primary vlan ! to be given in priv mode #
*/

1.

vtp mode transparent

3.Configure Primary and secondary vlans.

vlan 4000
private-vlan primary
vlan 4001
private-vlan community
vlan 4002
private-vlan community
vlan 4003
private-vlan isolated

4.Associating Primary vlan with secondary vlans.

```
vlan 4000
private-vlan association add 4001,4002,4003
exit

do sh vlan

Primary Secondary Type          Ports
------- --------- ---------------- --------------------------------------
4000   4001     community
4000   4002     community
4000   4003     isolated


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5.Port configurations.
! promiscuous port config:

int g1/2
sw mode private-vlan promiscuous
sw private-vlan mapping  4000 4001,4002,4003
exit

int range g0/0-1
switchport mode  private-vlan host
sw private-vlan host-association 4000 4001

int range g0/2-3
switchport mode  private-vlan host
sw private-vlan host-association 4000 4002

int range g1/0-1
switchport mode private-vlan host
sw private-vlan host-association 4000 4003

======================================================================
R7:gateway router
primary vlan promiscious mode can communicate  with every one
conf t
int e0/0
ip add 1.1.1.100 255.0.0.0
no sh
int lo 0
ip add 8.8.8.8 255.0.0.0
exit

================================================================
do show vlan private-vlan

vtp 1/vtp 2
Revision number issue
Normal vlans  2-1001
vlan database
vtp password was in clear text
Modes
```

Server   CIA (Cr local E)
client   IA (Cr local E)
Transparent   A (cr local N/E)
off mode   Will not take part in vtp

vtp 3
Revsion number is fixed
Normal/Extended
vlan database
MST database
private vlans (Pruning off)
vtp password supports md5

Modes
Server
Primary server   CIA
Secondary server   IA   (Any time can take over as primary server)
Client   IA
Transparent   A (cr local)
Off modes   Will not take part in vtp

SW1:
-----
en
conf t
ho SW1
int g0/0
sw trunk encap dot1q
sw mode trunk
exit

vtp domain abc
vtp ver 3
vtp password cisco hidden
vtp mode server vlan
vtp mode server mst
exit

spanning mode mst

SW2:
-----
en
conf t
ho SW2
int range g0/0-1
sw trunk encap dot1q
sw mode trunk
exit

vtp domain abc
vtp ver 3

```
vtp password cisco hidden
vtp mode  transparent  vlan
vtp mode   transparent mst
exit

spanning mode mst


SW3:
-----
en
conf t
ho SW3
int range g0/0-1
sw trunk encap dot1q
sw mode trunk
exit

vtp domain abc
vtp ver 3
vtp password cisco hidden
vtp mode  client vlan
vtp mode  client mst
exit

spanning mode mst


SW4:
-----
en
conf t
ho SW4
int range g0/0-1
sw trunk encap dot1q
sw mode trunk
exit

vtp domain abc
vtp ver 3
vtp password cisco hidden
vtp mode server  vlan
vtp mode server mst
exit

spanning mode mst


SW1:
# vtp primary vlan
password :cisco
# vtp primary mst
password : cisco
```

SW4
#vtp primary vlan force