**Basic Data and voice VLan setup Homelab**

**1.Configuration of Core Switch**

Switch>enable

Switch#confi

Switch#configure terminal

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

Switch(config)#host

Switch(config)#hostname Core\_Switch

**2. Vlan Setup**

Core\_Switch#config t

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

Core\_Switch(config)#vlan 10

Core\_Switch(config-vlan)#name office

Core\_Switch(config-vlan)#

Core\_Switch(config-vlan)#vlan 20

Core\_Switch(config-vlan)#name HR

Core\_Switch(config-vlan)#

Core\_Switch(config-vlan)#

Core\_Switch(config-vlan)#vlan 30

Core\_Switch(config-vlan)#name IT

Core\_Switch(config-vlan)#

Core\_Switch(config-vlan)#vlan 40

Core\_Switch(config-vlan)#name Voice

Core\_Switch(config-vlan)#exit

Core\_Switch(config)#do write

Building configuration...

[OK]

**3.Configure trunk ports on core switch**

Core\_Switch(config)#int gi0/1

Core\_Switch(config-if)#switchport mode trunk

Core\_Switch(config-if)#switchport trunk allowed vlan all

Core\_Switch(config-if)#

Core\_Switch(config-if)#exit

Core\_Switch(config)#int gi0/2

Core\_Switch(config-if)#switchport mode trunk

Core\_Switch(config-if)#switchport trunk allowed vlan all

Core\_Switch#write memory

**4.configure Access switch 1**

Switch>enable

Switch#conf

Switch#configure t

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

Switch(config)#hostname Access\_S1

Access\_S1(config)#vlan

% Incomplete command.

Access\_S1(config)#

Access\_S1(config)#vlan 10

Access\_S1(config-vlan)#name HR

Access\_S1(config-vlan)#

Access\_S1(config-vlan)#vlan 20

Access\_S1(config-vlan)#name Office

Access\_S1(config-vlan)#

Access\_S1(config-vlan)#vlan 40

Access\_S1(config-vlan)#name voice

Access\_S1(config-vlan)#exit

Access\_S1(config)#int gi0/1

Access\_S1(config-if)#switchport mode trunk

Access\_S1(config-if)#switchport trunk allowed vlan 10,20,40

Access\_S1(config-if)#

Access\_S1(config-if)#exit

Access\_S1(config)#

Access\_S1(config)#int range fa0/1-5

Access\_S1(config-if-range)#switchport mode access

Access\_S1(config-if-range)#switchport access vlan 10

Access\_S1(config-if-range)#switchport voice vlan 40

Access\_S1(config-if-range)#exit

Access\_S1(config)#int fa0/6-15

Access\_S1(config)#int range fa0/6-10

Access\_S1(config-if-range)#switchport mode access

Access\_S1(config-if-range)#switchport access vlan 20

Access\_S1(config-if-range)#switchport voice vlan 40

Access\_S1(config-if-range)#

Access\_S1(config-if-range)#do write memory

**4.configure Access switch 2**

Switch>

Switch>en

Switch>enable

Switch#configure t

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

Switch(config)#host

Switch(config)#hostname Access\_S2

Access\_S2(config)#

Access\_S2(config)#vlan 30

Access\_S2(config-vlan)#name IT

Access\_S2(config-vlan)#exit

Access\_S2(config)#

Access\_S2(config)#int gi0/2

Access\_S2(config-if)#switchport mode trunk

Access\_S2(config-if)#switchport trunk allowed vlan 30

Access\_S2(config-if)#

Access\_S2(config-if)#exit

Access\_S2(config)#int range fa0/1-5

Access\_S2(config-if-range)#switchport mode access

Access\_S2(config-if-range)#switchport access vlan 30

Access\_S2(config-if-range)#do write memory

Building configuration...

[OK]