|  |  |  |
| --- | --- | --- |
| **Bảng quy hoạch IP** | | |
| **Vlan** | **Dải IP** | **Tên** |
| Vlan10 | 103.95.197.128/28 | IP ket noi |
| Vlan20 | 103.95.197.64/28 | IP server |
| Vlan100 | 103.95.197.96/27 | IP quan tri thiet bi |
| Vlan30 | 103.95.197.144/28 | IP Ketoan |
| Vlan40 | 103.95.196.0/24 | IP Vanphong |
| Vlan50 | 103.95.197.0/26 | IP Kythuat |
| Vlan60 | 103.95.197.160/28 | IP Lanhdao |

|  |  |
| --- | --- |
| **FW-ASA-01** | **FW-ASA-02** |
| Hostname FW-ASA-01 | Hostname FW-ASA-02 |
| **Cấu hình mạng Local**  **Sub-interface vlan:**  Chia sub-int vlan cho các cổng:  G0/1: vlan 30,40  Bật cổng:  Interface g0/1  no shut  exit  Sub-interface vlan 30:  Interface g0/1.30  Vlan 30  Nameif Inside\_vlan30  Security-level 50  Ip address 103.95.197.145 255.255.255.240  Exit  Sub-interface vlan 40:  Interface g0/1.40  Vlan 40  Nameif Inside\_vlan40  Security-level 50  Ip address 103.95.196.1 255.255.255.0  exit  G0/2: vlan 50,60  Bật cổng:  Interface g0/2  no shut  exit  Sub-interface vlan 50:  Interface g0/2.50  Vlan 50  Nameif Inside\_vlan50  Security-level 50  Ip address 103.95.197.1 255.255.255.192  exit  Sub-interface vlan 60:  Interface g0/2.60  Vlan 60  Nameif Inside\_vlan60  Security-level 50  Ip address 103.95.197.161 255.255.255.240  exit | **Cấu hình mạng Local**  **Sub-interface vlan:**  Chia sub-int vlan cho các cổng:  G0/1: vlan 30,40  Bật cổng:  Interface g0/1  no shut  exit  Sub-interface vlan 30:  Interface g0/1.30  Vlan 30  Nameif Inside\_vlan30  Security-level 50  Ip address 103.95.197.145 255.255.255.240  Exit  Sub-interface vlan 40:  Interface g0/1.40  Vlan 40  Nameif Inside\_vlan30  Security-level 50  Ip address 103.95.196.1 255.255.255.0  exit  G0/2: vlan 50,60  Bật cổng:  Interface g0/2  no shut  exit  Sub-interface vlan 50:  Interface g0/2.50  Vlan 50  Nameif Inside\_vlan50  Security-level 50  Ip address 103.95.197.1 255.255.255.192  exit  Sub-interface vlan 60:  Interface g0/2.60  Vlan 60  Nameif Inside\_vlan60  Security-level 50  Ip address 103.95.197.161 255.255.255.240  exit |
| **Cấu hình mạng ngoài:**  Interface g0/1  Ip address 103.95.197.129/28  No shut | **Cấu hình mạng ngoài:**  Interface g0/1  Ip address 103.95.197.132/28  No shut |
| **Cấu hình Default route:**  Route outside 0.0.0.0 0.0.0.0 103.95.197.142 |  |
| **Cấu hình failover:**  Bật port failover:  Interface g0/7  No shut  exit  Failover lan unit primary  Failover lan interface int\_g0/7 g0/7  Failover interface ip int\_g0/7 103.95.198.1 255.255.255.248 standby 103.95.198.2  Failover | **Cấu hình failover:**  Bật port failover:  Interface g0/7  No shut  exit  Failover lan unit secondary  Failover lan interface int\_g0/7 g0/7  Failover interface ip int\_g0/7 103.95.198.1 255.255.255.248 standby 103.95.198.2  Failover |
| **Cấu hình DHCP:**  Vlan30:  Dhcpd address 103.95.197.146-103.95.197.158 Inside\_vlan30  Dhcpd enable Inside\_vlan30  Vlan40:  Dhcpd address 103.95.196.2-103.95.196.254 Inside\_vlan40  Dhcpd enable Inside\_vlan40  Vlan50:  Dhcpd address 103.95.197.2-103.95.197.62 Inside\_vlan50  Dhcpd enable Inside\_vlan50  Vlan60:  Dhcpd address 103.95.197.162-103.95.197.174 Inside\_vlan60  Dhcpd enable Inside\_vlan60 |  |

|  |  |
| --- | --- |
| **SW-CORE-1** | **SW-CORE-2** |
| Hostname SW-CORE-1 | Hostname SW-CORE-2 |
| **Trunking:**  int range e1/0-3  switchport trunk encapsulation dot1q  switchport mode trunk  switchport trunk allowed vlan 30,40,50,60  exit  int range e0/1-2  switchport trunk encapsulation dot1q  switchport mode trunk  switchport trunk allowed vlan 30,40,50,60  exit | **Trunking:**  int range e1/0-3  switchport trunk encapsulation dot1q  switchport mode trunk  switchport trunk allowed vlan 30,40,50,60  exit  int range e0/1-2  switchport trunk encapsulation dot1q  switchport mode trunk  switchport trunk allowed vlan 30,40,50,60  exit |
| **Tạo vlan:**  vlan 30  name KeToan  exit  vlan 40  name VanPhong  exit  vlan 50  name KyThuat  exit  vlan 60  name Lanhdao  exit | **Tạo vlan:**  vlan 30  name KeToan  exit  vlan 40  name VanPhong  exit  vlan 50  name KyThuat  exit  vlan 60  name Lanhdao  exit |
| **Port-channel :**  Port e1/2-3  Interface range e1/2-3  channel-group 1 mode on  exit  interface port-channel 1  switchport trunk encapsulation dot1q  switchport mode trunk  exit | **Port-channel :**  Port e1/2-3  Interface range e1/2-3  channel-group 1 mode on  exit  interface port-channel 1  switchport trunk encapsulation dot1q  switchport mode trunk  exit |
| **Spanning – tree :**  Spanning-tree mode rapid-pvst  Spanning-tree vlan 30 root primary  Spanning-tree vlan 40 root primary  Spanning-tree vlan 50 root primary  Spanning-tree vlan 60 root primary | **Spanning – tree:**  Spanning-tree mode rapid-pvst |

|  |  |
| --- | --- |
| **DSW-01** | **DSW-02** |
| Hostname DSW-01 | Hostname DSW-02 |
| **Trunking:**  Interface range e1/0-3  Switchport trunk encapsulation dot1q  Switchport mode trunk  Switchport trunk allowed vlan 30,40,50,60  exit | **Trunking:**  Interface range e1/0-3  Switchport trunk encapsulation dot1q  Switchport mode trunk  Switchport trunk allowed vlan 30,40,50,60  exit |
| **Tạo vlan:**  vlan 30  name KeToan  exit  vlan 40  name VanPhong  exit  vlan 50  name KyThuat  exit  vlan 60  name Lanhdao  exit | **Tạo vlan:**  vlan 30  name KeToan  exit  vlan 40  name VanPhong  exit  vlan 50  name KyThuat  exit  vlan 60  name Lanhdao  exit |
| **Spanning-tree:**  Spanning-tree mode rapid-pvst  Spanning-tree vlan 30 root primary  Spanning-tree vlan 40 root primary  Spanning-tree vlan 50 root primary  Spanning-tree vlan 60 root primary | **Spanning-tree:**  Spanning-tree mode rapid-pvst |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ASW-01** | | | | **ASW-02** |
| **Trunking:**  Interface range e1/2-3  Switchport trunk encapsulation dot1q  Switchport mode trunk  Switchport trunk allowed vlan 30,40,50,60  exit | | | | **Trunking:**  Interface range e1/2-3  Switchport trunk encapsulation dot1q  Switchport mode trunk  Switchport trunk allowed vlan 30,40,50,60  exit |
| **Access vlan:**  Interface e0/0  Switchport mode access  Switchport access vlan 30  exit  Interface e0/1  Switchport mode access  Switchport access vlan 40  exit | | | | **Access vlan:**  Interface e0/0  Switchport mode access  Switchport access vlan 50  exit  Interface e0/1  Switchport mode access  Switchport access vlan 60  exit |
| **Tạo vlan:**  vlan 30  name KeToan  exit  vlan 40  name VanPhong  exit  vlan 50  name KyThuat  exit  vlan 60  name Lanhdao  exit | | | | **Tạo vlan:**  vlan 30  name KeToan  exit  vlan 40  name VanPhong  exit  vlan 50  name KyThuat  exit  vlan 60  name Lanhdao  exit |
| **Port-security:** | **ASW-01** | **E**  **0/0** | switch port-security (bat mode port-security)  switch port-security maximum 1 (so lan MAC duoc thay doi la 1)  switch port-security mac-address gom 2 option:  - add MAC manual: switch port-security mac-address 00:50:79:66:68:0d  - add auto: switch port-security mac-address sticky | |
| **E**  **0/1** | switch port-security (bat mode port-security)  switch port-security maximum 1 (so lan MAC duoc thay doi la 1)  switch port-security mac-address gom 2 option:  - add MAC manual: switch port-security mac-address 00:50:79:66:68:0e  - add auto: switch port-security mac-address sticky | |
| **ASW-02** | **E**  **0/0** | switch port-security (bat mode port-security)  switch port-security maximum 1 (so lan MAC duoc thay doi la 1)  switch port-security mac-address gom 2 option:  - add MAC manual: switch port-security mac-address 00:50:79:66:68:0f  - add auto: switch port-security mac-address | |
| **E**  **0/1** | switch port-security (bat mode port-security)  switch port-security maximum 1 (so lan MAC duoc thay doi la 1)  switch port-security mac-address gom 2 option:  - add MAC manual: switch port-security mac-address 00:50:79:66:68:10  - add auto: switch port-security mac-address sticky | |

* Chú thích
  + Sticky : Switch tự động update địa chỉ MAC đầu tiên được gán

|  |  |
| --- | --- |
| **RGW-01** | **RGW-02** |
| **Config port:**  Interface e0/1  Ip address 103.95.197.130/28  No shut | **Config port:**  Interface e0/2  Ip address 103.95.197.131/28  No shut |
| **VRRP:**  Interface e0/1:  Vrrp 1 ip 103.95.197.142  Vrrp 1 priority 100 | **VRRP:**  Interface e0/1:  Vrrp 1 ip 103.95.197.142  Vrrp 1 priority 90 |
|  |  |