**COM 5335 : NETWORK SECURITY ASSIGNMENT#3**

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1. Show my assign IP address and other information list in the following table.

* The device information under each VLAN

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| Devices | Interface | IP / Mask | Getway | VLAN |
| PC0 (Ireland) | NIC | 192.168.10.2/24 | 192.168.10.1 | 10 |
| PC1 (Ireland) | 192.168.20.2/24 | 192.168.20.1 | 20 |
| PC2 (Ireland) | 192.168.30.2/24 | 192.168.30.1 | 30 |
| PC3 (Germany) | NIC | 192.168.100.2/24 | 192.168.100.1 | 100 |
| PC4 (Germany) | 192.168.200.2/24 | 192.168.200.1 | 200 |
| PC5 (Finland) | NIC | DHCP | 192.168.100.1 | N/A |
| PC6 (Finland) |
| DHCP Server (Finland) | NIC | 192.168.100.2/24 | 192.168.100.1 |
| Web Server (Estonia) | NIC | 192.168.1.5/24 | 192.168.1.1 | N/A |
| Mail Server (Estonia) | 192.168.1.6/24 | N/A |
| Dublin Router | G0/0.10 | 192.168.10.1/24 | N/A | N/A |
| G0/0.20 | 192.168.20.1/24 |
| G0/0.30 | 192.168.30.1/24 |
| S0/0/0 | 10.1.1.1/30 |
| Berlin Router | G0/0.100 | 192.168.100.1/24 | N/A | N/A |
| G0/0.200 | 192.168.200.1/24 |
| S0/0/0 | 10.2.2.1/30 |
| Tartu Router | G0/0 | 192.168.1.1/24 | N/A | N/A |
| S0/0/0 | 10.3.3.1/30 |
| Helsinki Router | G0/0 | 192.168.100.1/24 | N/A | N/A |
| S0/0/0 | 10.4.4.1/30 |
| Central Router | S0/0/0 | 10.1.1.2/30 | N/A | N/A |
| S0/0/1 | 10.2.2.2/30 |
| S0/1/0 | 10.3.3.2/30 |
| S0/1/1 | 10.4.4.2/30 |

I. List all the commands I use in this assignment.

* Configure within the Ireland Switch

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| **>** enable  # configure terminal  (config)# VLAN 10  (config)# VLAN 20  (config)# VLAN 30  (config)# interface fastEthernet 0/1  (config-if)# switchport access vlan 10  (config-if)# switchport mode access  (config)# interface fastEthernet 0/2  (config-if)# switchport access vlan 20  (config-if)# switchport mode access  (config)# interface fastEthernet 0/3  (config-if)# switchport access vlan 30  (config-if)# switchport mode access  (config-if)# end  # show vlan brief  (config)# interface gigabitEthernet 0/1  (config-if)# no shutdown  (config-if)# switchport mode trunk  # show run  # copy running-config startup-config |

* Configure within the Dublin Router

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| > enable  # configure terminal  (config)# interface gigabitEthernet 0/0  (config-if)# no shutdown  (config)# interface gigabitEthernet 0/0.10  (config-subif)# encapsulation dot1Q 10  (config-subif)# ip address 192.168.10.1 255.255.255.0  (config)# interface gigabitEthernet 0/0.20  (config-subif)# encapsulation dot1Q 20  (config-subif)# ip address 192.168.20.1 255.255.255.0  (config)# interface gigabitEthernet 0/0.30  (config-subif)# encapsulation dot1Q 30  (config-subif)# ip address 192.168.30.1 255.255.255.0  # show run  # show ip route  (config)# line console 0  (config-line)# password ireland@cisco  (config-line)# login  (config)# enable password ireland@cisco  (config)# line vty 0 4  (config-line)# password ciscocisco  (config-line)# login  # copy running-config startup-config |

* Configure within the Germany Switch

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| > enable  # configure terminal  (config)# VLAN 100  (config)# VLAN 200  (config)# interface fastEthernet 0/1  (config-if)# switchport access vlan 100  (config-if)# switchport mode access  (config)# interface fastEthernet 0/2  (config-if)# switchport access vlan 200  (config-if)# switchport mode access  (config-if)# end  # show vlan brief  (config)# interface gigabitEthernet 0/1  (config-if)# no shutdown  (config-if)# switchport mode trunk  # show run  # copy running-config startup-config |

* Configure within the Berlin Router

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| > enable  # configure terminal  (config)# interface gigabitEthernet 0/0  (config-if)# no shutdown  (config)# interface gigabitEthernet 0/0.100  (config-subif)# encapsulation dot1Q 100  (config-subif)# ip address 192.168.100.1 255.255.255.0  (config)# interface gigabitEthernet 0/0.200  (config-subif)# encapsulation dot1Q 200  (config-subif)# ip address 192.168.200.1 255.255.255.0  # show run  # show ip route  (config)# line console 0  (config-line)# password germany@cisco  (config-line)# login  (config)# enable password germany@cisco  (config)# line vty 0 4  (config-line)# password ciscocisco  (config-line)# login  # copy running-config startup-config |

* Configure within Helsinki Router

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| --- |
| > enable  # configure terminal  (config)# ip dhcp pool officeLAN  (dhcp-config)# network 192.168.100.0 255.255.255.0  (dhcp-config)# default-router 192.168.100.1  (dhcp-config)# dns-server 192.168.100.2  # copy running-config startup-config |