**Final Skills Assessment**

**Your name: Lau Ngoc Quyen**

**Your student ID: 104198996**

**Requirement 1:** Configure device names on all switches and routers

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| Switch>ena  Switch#conf t  Switch(config)#hostname Pebbles  Pebbles(config)# no ip domain-lookup  Switch>ena  Switch#conf t  Switch(config)#hostname Wilma  Wilma(config)# no ip domain-lookup  Router>ena  Router#conf t  Router(config)#hostname Fred  Fred(config)# no ip domain-lookup |

**Requirement 2:** Configure a Message of the Day on all devices

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| Fred(config)#banner motd + Message of the Day ID: 104198996 +  Pebbles(config)# banner motd + Message of the Day ID: 104198996 +  Wilma(config)# banner motd + Message of the Day ID: 104198996 + |

**Requirement 3:** The links between Pebbles and Wilma must be configured as redundant trunk links

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| Wilma(config)#int range gi1/0/5-6  Wilma(config-if-range)#switchport mode trunk  Pebbles(config)#int range gi1/0/5-6  Pebbles(config-if-range)#switchport mode trunk |

**Requirement 4:** Configure the Fred router as a router-on-a-stick to route between all VLANs

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| Fred(config-if)#int gi0/0/1  Fred(config-if)#no shutdown  Fred(config-if)#int gi0/0/1.20  Fred(config-subif)#encapsulation dot1Q 20  Fred(config-subif)#int gi0/0/1.120  Fred(config-subif)#encapsulation dot1Q 120  Fred(config-subif)#int gi0/0/1.500  Fred(config-subif)#encapsulation dot1Q 500 |

**Requirement 5:**/All Fred sub-interfaces must be configured with the first useable IP address

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| Fred(config-subif)#int gi0/0/1.20  Fred(config-subif)#ip address 203.34.175.65 255.255.255.192  Fred(config-subif)#int gi0/0/1.120  Fred(config-subif)#ip address 103.20.248.1 255.255.248.0  Fred(config-subif)# int gi0/0/1.500  Fred(config-subif)#ip address 193.35.200.17 255.255.255.240 |

**Requirement 6:** Cofig loopback0

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| Fred(config-subif)#int l0  Fred(config-if)#ip address 105.60.90.81 255.255.255.248 |

**Requirement 7:** gi1/0/11-24 and gi1/1/1-4 must be disabled

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| Pebbles(config)#int range gi1/0/11-24  Pebbles(config-if-range)#shutdown  Pebbles(config-if-range)#int range gi1/1/1-4  Pebbles(config-if-range)#shutdown |

**Requirement 8:** Ports gi1/0/1-4 must be enabled as access ports, allocated to the People VLAN and with switchport port-security turned on

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| Pebbles(config)#vlan 20  Pebbles(config-vlan)#name People  Pebbles(config-vlan)#int vlan 20  Pebbles(config-vlan)# exit  Pebbles(config)#int range gi1/0/1-4  Pebbles(config-if-range)#switchport mode access  Pebbles(config-if-range)#switchport access vlan 20  Pebbles(config)#exit  Pebbles(config)#int range gi1/0/1-4  Pebbles(config-if-range)#switchport port-security |

**Requirement 9:** Gi1/0/7-10 must be enable as access ports and allocated to the Dinosaurs

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| Pebbles(config)#vlan 120  Pebbles(config-vlan)#name Dinosaurs  Pebbles(config-vlan)#int vlan 120  Pebbles(config-vlan)#exit  Pebbles(config)#int range gi 1/0/7-10  Pebbles(config-if-range)#switchport mode access  Pebbles(config-if-range)#switchport access vlan 120 |

**Requirement 10:** Config Management IP on 2 Switches

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| Pebbles(config)#vlan 500  Pebbles(config-vlan)#name Management  Pebbles(config-vlan)#int vlan 500  Pebbles(config-if)#ip address 193.35.200.19 255.255.255.240  Wilma(config)#ip default-gateway 193.35.200.17  Wilma(config)#vlan 20  Wilma(config-vlan)#name People  Wilma(config)#vlan 120  Wilma(config-vlan)#name Dinosaurs  Wilma(config)#vlan 500  Wilma(config-vlan)#name Management  Pebbles(config-vlan)#int vlan 500  Wilma(config-vlan)# exit  Wilma(config)#int vlan 500  Wilma(config-if)#ip address 193.35.200.18 255.255.255.240  Wilma(config)#ip default-gateway 193.35.200.17  Wilma(config-if)#int range g 1/0/11  Wilma(config-if)#switchport mode trunk |

**Requirement 11:** STP root bridge for Management and People

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| Wilma(config)#spanning-tree vlan 500,20 root primary |

**Requirement 12:** STP root bridge for Dinosaurs

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| Pebbles(config)#spanning-tree vlan 120 root primary |