Task 1: Create an IPv4 Scheme for the network shown here and apply it to the diagram. Then create an alternate IPv6 Scheme for the same network and apply it to another copy of the diagram. VLAN 4: FC00::1 1024 hosts FC07::1 FC08::/64 VLAN 2 PC FC08::1 • G0/1 FC08::2 G0/1 505 hosts G0/0 2 hosts VLAN 2: FC02::1 FC07::/64 400 hosts FC04::1 2 hosts G0/1 R5 G0/1 (trunk) G0/0 FC05::3 FC07::2 FC04::/64 G0/1 Area 1: Class B 25 hosts VLAN 10 PC FC05::2 VLAN 3: **VLAN 10:** S2 250 hosts 5,000,000 hosts 10 hosts VLAN 3 PC FC10::1 FC05::/64 FC03::2 Area B (VLANs) <u>S9</u> 2:FC02::/64 (trunk) G0/1 G0/1 G0/2 FC04::3 3: FC03::/64 G0/1 2 hosts G0/1 VLAN 11: VLAN 11 PC 4: FC00::/64 FC09::/64 FC06::/64 ISP Area: 5: FC01::/64 R13 5,000 hosts FC14::2 FC09::2 FC14::1 FC17::: FC23::2 FC23::/64 14 hosts G1/1/1 **Any public IPs Area 3: Class A** 40 hosts FC17::2 FC23::1 FC27::/64 FC27::2 G1/1/3 G1/1/2 VLAN 600 FC19::/64 FC20::2 VLAN 700 20 hosts FC27::1 G0/0 FC24::2 80 hosts VLAN 500 FC18::2 FC19::2 FC20::/64 FC27::/64 FC16::2 Area 2: Class C 60 hosts R7 Area A (VLANs) FC19::1 G0/2 8 hosts G0/1/FC22::2 FC24::1 6: FC11::/64 - 7: FC15::/64 VLAN 100 FC16::1 8: FC12::/64 - 9: FC13::/64 FC18::1 G0/0 FC20::1 G1/0/15 VLAN 200 VLAN 200 FC26::1 18 hosts 10: FC10::/64 - 11: FC14::/64 G0/1 G0/0 12 hosts FC00::1 500: FC18::/64 - 600: FC17::/64 VLAN 400 2 hosts FC22::1 700: FC16::/64 (trunk) G0/0 R12 FC00::2 G0/1 VLAN 1 FC26::2 FC15::1/64 G0/1 (trunk) Area C (VLANs): Fa0/13 **VLAN 300** FC25::1 5 hosts **VLAN 7: 2,000 S7** 1: FC26::/64 - 100: FC24::/64 FC21::/64 Fa0/13 **VLAN 8:** hosts **S8** 200: FC00::/64 - 300: FC25::/64 R10 FC25::2 25 hosts FC11::1 VLAN 6: Fa0/1 200.000 hosts 400: FC22::/64 FC13::1 FC12::1 **VLAN 9:** FC21::1 202,000 hosts VLAN 6 PC 10,000 hosts FC21::2 VLAN 7 PC VLAN 8 PC FC15::2/64 VLAN 9 PC FC12::2 FC13::2