

Introduction to Networks (CPNT-219-E)

Lab Final Project

Group Members

Member 1 - Nandini Bisht (000923811)

Site – 1

IPv4 : 10.11.0.0/18

IPv6: 2001:db8:acad:1100::/56

Member 2 – Jasmine Kaur Sindhu (000936231)

Site – 2

IPv4 : 10.5.0.0/19

IPv6 : 2001:db8:acad:500::/56

Member 3 – Devanshu Jamwal (000929361)

Site – 3

IPv4 : 10.9.0.0/18

IPv6 : 2001:db8:acad:0900::/56

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Nandini Bisht

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Jasmine kaur Sindhu

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Devanshu Jamwal

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Nandini Bisht

Site 2- Calgary(HQ)

There are 4 Networks for different departments in the company.

- Information Technology (I.T.) LAN 1
- Management (MGMT) LAN 2
- Finance (FIN) LAN 3
- Human Resources (HR) LAN 4

Network #1:

| | |
|--------------|------------|
| LAN 1 | 1357 Hosts |
| LAN 2 | 137 Hosts |
| LAN 3 | 341 Hosts |
| LAN 4 | 21 Hosts |

| Network Name | Hosts Needed | Total available IP Addresses allocated | Prefix | Network Address | First Usable Host Address | Last Usable Host Address | Broadcast Address | Subnet Mask |
|--------------|--------------|--|--------|-----------------|---------------------------|--------------------------|-------------------|-----------------|
| LAN 1 | 1357 | 2046 | 21 | 10.11.0.0 | 10.11.0.1 | 10.11.7.254 | 10.11.7.255 | 255.255.248.0 |
| LAN 2 | 137 | 254 | 24 | 10.11.10.0 | 10.11.10.1 | 10.11.10.254 | 10.11.10.255 | 255.255.255.0 |
| LAN 3 | 341 | 510 | 23 | 10.11.8.0 | 10.11.8.1 | 10.11.9.254 | 10.11.9.255 | 255.255.254.0 |
| LAN 4 | 21 | 30 | 27 | 10.11.11.0 | 10.11.11.1 | 10.11.11.30 | 10.11.11.31 | 255.255.255.224 |
| WAN 1 | 2 | 2 | 30 | 10.11.11.32 | 10.11.11.33 | 10.11.11.34 | 10.11.11.35 | 255.255.255.252 |
| WAN 2 | 2 | 2 | 30 | 10.11.11.36 | 10.11.11.37 | 10.11.11.38 | 10.11.11.39 | 255.255.255.252 |

Network Addressing Table

IPv4

| Device Name | Interface | IP Address | Subnet Mask | Default Gateway Address |
|------------------|------------|--------------|-----------------|-------------------------|
| R-CAL-1 | Fa0/0 | 10.11.0.1 | 255.255.248.0 | - |
| | Fa0/1 | 10.11.10.1 | 255.255.255.0 | - |
| | Fa1/0 | 10.11.8.1 | 255.255.254.0 | - |
| | Fa1/1 | 10.11.11.1 | 255.255.255.224 | - |
| | Gig0/2/0 | 10.11.11.33 | 255.255.255.252 | - |
| | Gig0/3/0 | 10.11.11.37 | 255.255.255.252 | - |
| | Gig0/1/0 | 192.168.10.1 | 255.255.255.252 | - |
| | | | | |
| SW-IT-1 | VLAN 1 | 10.11.7.254 | 255.255.248.0 | 10.11.0.1 |
| SW-MGMT-1 | VLAN 1 | 10.11.10.254 | 255.255.255.0 | 10.11.10.1 |
| SW-FIN-1 | VLAN 1 | 10.11.9.254 | 255.255.254.0 | 10.11.8.1 |
| SW-HR-1 | VLAN 1 | 10.11.11.30 | 255.255.255.224 | 10.11.11.1 |
| | | | | |
| PC-IT-1 | Wireless 0 | 10.11.0.2 | 255.255.248.0 | 10.11.0.1 |
| PC-IT-2 | Wireless 0 | 10.11.0.3 | 255.255.248.0 | 10.11.0.1 |
| PC-IT-3 | Wireless 0 | 10.11.0.4 | 255.255.248.0 | 10.11.0.1 |
| PC-IT-4 | Wireless 0 | 10.11.0.5 | 255.255.248.0 | 10.11.0.1 |
| PC-IT-5 | Wireless 0 | 10.11.0.6 | 255.255.248.0 | 10.11.0.1 |
| | | | | |
| PC-MGMT-1 | NIC | 10.11.10.2 | 255.255.255.0 | 10.11.10.1 |
| PC-MGMT-2 | NIC | 10.11.10.3 | 255.255.255.0 | 10.11.10.1 |
| PC-MGMT-3 | NIC | 10.11.10.4 | 255.255.255.0 | 10.11.10.1 |
| PC-MGMT-4 | NIC | 10.11.10.5 | 255.255.255.0 | 10.11.10.1 |
| PC-MGMT-5 | NIC | 10.11.10.6 | 255.255.255.0 | 10.11.10.1 |
| | | | | |
| PC-FIN-1 | NIC | 10.11.9.2 | 255.255.254.0 | 10.11.8.1 |
| PC-FIN-2 | NIC | 10.11.9.3 | 255.255.254.0 | 10.11.8.1 |
| PC-FIN-3 | NIC | 10.11.9.4 | 255.255.254.0 | 10.11.8.1 |
| PC-FIN-4 | NIC | 10.11.9.5 | 255.255.254.0 | 10.11.8.1 |
| PC-FIN-5 | NIC | 10.11.9.6 | 255.255.254.0 | 10.11.8.1 |
| | | | | |
| PC-HR-1 | NIC | 10.11.11.2 | 255.255.255.224 | 10.11.11.1 |

| | | | | |
|----------------|-----|------------|-----------------|------------|
| PC-HR-2 | NIC | 10.11.11.3 | 255.255.255.224 | 10.11.11.1 |
| PC-HR-3 | NIC | 10.11.11.4 | 255.255.255.224 | 10.11.11.1 |
| PC-HR-4 | NIC | 10.11.11.5 | 255.255.255.224 | 10.11.11.1 |
| PC-HR-5 | NIC | 10.11.11.6 | 255.255.255.224 | 10.11.11.1 |

IPv6

| Device Name | Interface | IP Address | Subnet Mask | Default Gateway Address | Link Local |
|--------------------|------------------|--|--------------------|--------------------------------|-------------------|
| Router0 | Fa0/0 | 2001:db8:acad:1100::1 | /64 | - | FE80::1 |
| | Fa0/1 | 2001:db8:acad:1101::1 | /64 | - | FE80:1::1 |
| | Fa1/0 | 2001:db8:acad:1102::1 | /64 | - | FE80:2::1 |
| | Fa1/1 | 2001:db8:acad:1103::1 | /64 | - | FE80:3::1 |
| | Gig0/2/0 | 2001:db8:acad:1104::1 | /64 | - | FE80:4::1 |
| | Gig0/3/0 | 2001:db8:acad:1105::1 | /64 | - | FE80:5::1 |
| | Gig0/1/0 | 2001:db8:acad:1106::1 | /64 | - | FE80:6::1 |
| | | | | | |
| SW-IT-1 | VLAN 1 | 2001:db8:acad:1100:ffff:ffff:ffff:ffff | /64 | 2001:db8:acad:1100::1 | FE80::ffff |
| SW-MGMT-1 | VLAN 1 | 2001:db8:acad:1101:ffff:ffff:ffff:ffff | /64 | 2001:db8:acad:1101::1 | FE80::1:ffff |
| SW-FIN-1 | VLAN 1 | 2001:db8:acad:1102:ffff:ffff:ffff:ffff | /64 | 2001:db8:acad:1102::1 | FE80::2:ffff |
| SW-HR-1 | VLAN 1 | 2001:db8:acad:1103:ffff:ffff:ffff:ffff | /64 | 2001:db8:acad:1103::1 | FE80::3:ffff |
| | | | | | |
| PC-IT-1 | NIC | 2001:db8:acad:1100::2 | /64 | 2001:db8:acad:1100::1 | FE80::2 |
| PC-IT-2 | NIC | 2001:db8:acad:1100::3 | /64 | 2001:db8:acad:1100::1 | FE80::3 |
| PC-IT-3 | NIC | 2001:db8:acad:1100::4 | /64 | 2001:db8:acad:1100::1 | FE80::4 |
| PC-IT-4 | NIC | 2001:db8:acad:1100::5 | /64 | 2001:db8:acad:1100::1 | FE80::5 |
| PC-IT-5 | NIC | 2001:db8:acad:1100::6 | /64 | 2001:db8:acad:1100::1 | FE80::6 |
| | | | | | |

| | | | | | |
|------------------|-----|-----------------------|-----|-----------------------|-----------|
| PC-MGMT-1 | NIC | 2001:db8:acad:1101::2 | /64 | 2001:db8:acad:1101::1 | FE80:1::2 |
| PC-MGMT-2 | NIC | 2001:db8:acad:1101::3 | /64 | 2001:db8:acad:1101::1 | FE80:1::3 |
| PC-MGMT-3 | NIC | 2001:db8:acad:1101::4 | /64 | 2001:db8:acad:1101::1 | FE80:1::4 |
| PC-MGMT-4 | NIC | 2001:db8:acad:1101::5 | /64 | 2001:db8:acad:1101::1 | FE80:1::5 |
| PC-MGMT-5 | NIC | 2001:db8:acad:1101::6 | /64 | 2001:db8:acad:1101::1 | FE80:1::6 |
| | | | | | |
| PC-FIN-1 | NIC | 2001:db8:acad:1102::2 | /64 | 2001:db8:acad:1102::1 | FE80:2::2 |
| PC-FIN-2 | NIC | 2001:db8:acad:1102::3 | /64 | 2001:db8:acad:1102::1 | FE80:2::3 |
| PC-FIN-3 | NIC | 2001:db8:acad:1102::4 | /64 | 2001:db8:acad:1102::1 | FE80:2::4 |
| PC-FIN-4 | NIC | 2001:db8:acad:1102::5 | /64 | 2001:db8:acad:1102::1 | FE80:2::5 |
| PC-FIN-5 | NIC | 2001:db8:acad:1102::6 | /64 | 2001:db8:acad:1102::1 | FE80:2::6 |
| | | | | | |
| PC-HR-1 | NIC | 2001:db8:acad:1103::2 | /64 | 2001:db8:acad:1103::1 | FE80:3::2 |
| PC-HR-2 | NIC | 2001:db8:acad:1103::3 | /64 | 2001:db8:acad:1103::1 | FE80:3::3 |
| PC-HR-3 | NIC | 2001:db8:acad:1103::4 | /64 | 2001:db8:acad:1103::1 | FE80:3::4 |
| PC-HR-4 | NIC | 2001:db8:acad:1103::5 | /64 | 2001:db8:acad:1103::1 | FE80:3::5 |
| PC-HR-5 | NIC | 2001:db8:acad:1103::6 | /64 | 2001:db8:acad:1103::1 | FE80:3::6 |

Jasmine Kaur Sindhu

Site 2 - London

There are 4 Networks for different departments in the company.

- Information Technology (I.T.) LAN 1
- Management (MGMT) LAN 2
- Finance (FIN) LAN 3
- Human Resources (HR) LAN 4

Network #1:

| | |
|--------------|------------|
| LAN 1 | 218 Hosts |
| LAN 2 | 40 Hosts |
| LAN 3 | 1397 Hosts |
| LAN 4 | 58 Hosts |

| Network Name | Hosts Needed | Total available IP Addresses allocated | Prefix | Network Address | First Usable Host Address | Last Usable Host Address | Broadcast Address | Subnet Mask |
|---------------------|---------------------|---|---------------|------------------------|----------------------------------|---------------------------------|--------------------------|--------------------|
| LAN 3 | 1397 | 2046 | 21 | 10.5.0.0 | 10.5.0.1 | 10.5.7.254 | 10.5.7.255 | 255.255.248.0 |
| LAN 1 | 218 | 254 | 24 | 10.5.8.0 | 10.5.8.1 | 10.5.8.254 | 10.5.8.255 | 255.255.255.0 |
| LAN 4 | 58 | 62 | 26 | 10.5.9.0 | 10.5.9.1 | 10.5.9.62 | 10.5.9.63 | 255.255.255.192 |

| | | | | | | | | |
|--------------|----|----|----|------------|------------|------------|------------|-----------------|
| LAN 2 | 40 | 62 | 26 | 10.5.9.64 | 10.5.9.65 | 10.5.9.126 | 10.5.9.127 | 255.255.255.192 |
| WAN 1 | 2 | 2 | 30 | 10.5.9.128 | 10.5.9.129 | 10.5.9.130 | 10.5.9.131 | 255.255.255.252 |

Network Addressing Table

| Device Name | Interface | IP Address | Subnet Mask | Default Gateway Address |
|---------------------|------------------|-------------------|--------------------|--------------------------------|
| R-LON-1 | Fa 0/3/0 | 10.5.0.1 | 255.255.248.0 | - |
| | Fa 0/3/1 | 10.5.8.1 | 255.255.255.0 | - |
| | Fa 0/3/2 | 10.5.9.1 | 255.255.255.192 | - |
| | Fa 0/3/3 | 10.5.9.65 | 255.255.255.192 | - |
| | Gig0/2/0 | 10.11.11.38 | 255.255.255.252 | - |
| SW-IT-1(1) | VLAN 1 | 10.5.7.254 | 255.255.248.0 | 10.5.0.1 |
| SW-MGMT-1(1) | VLAN 1 | 10.5.8.254 | 255.255.255.0 | 10.5.8.1 |
| SW-HR-1(1) | VLAN 1 | 10.5.9.62 | 255.255.255.192 | 10.5.9.1 |
| SW-FIN-1(1) | VLAN 1 | 10.5.9.126 | 255.255.255.192 | 10.5.9.65 |
| PC-IT-1(1) | NIC | 10.5.0.2 | 255.255.248.0 | 10.5.0.1 |
| PC-IT-2(1) | NIC | 10.5.0.3 | 255.255.248.0 | 10.5.0.1 |
| PC-IT-3(1) | NIC | 10.5.0.4 | 255.255.248.0 | 10.5.0.1 |
| PC-IT-4(1) | NIC | 10.5.0.5 | 255.255.248.0 | 10.5.0.1 |
| PC-IT-5(1) | NIC | 10.5.0.6 | 255.255.248.0 | 10.5.0.1 |
| PC-MGMT-1(1) | NIC | 10.5.8.2 | 255.255.255.0 | 10.5.8.1 |
| PC-MGMT-2(1) | NIC | 10.5.8.3 | 255.255.255.0 | 10.5.8.1 |
| PC-MGMT-3(1) | NIC | 10.5.8.4 | 255.255.255.0 | 10.5.8.1 |
| PC-MGMT-4(1) | NIC | 10.5.8.5 | 255.255.255.0 | 10.5.8.1 |
| PC-MGMT-5(1) | NIC | 10.5.8.6 | 255.255.255.0 | 10.5.8.1 |
| PC-HR-1(1) | Wireless 0 | 10.5.9.2 | 255.255.255.192 | 10.5.9.1 |
| PC-HR-2(1) | Wireless 0 | 10.5.9.3 | 255.255.255.192 | 10.5.9.1 |
| PC-HR-3(1) | Wireless 0 | 10.5.9.4 | 255.255.255.192 | 10.5.9.1 |
| PC-HR-4(1) | Wireless 0 | 10.5.9.5 | 255.255.255.192 | 10.5.9.1 |
| PC-HR-5(1) | Wireless 0 | 10.5.9.6 | 255.255.255.192 | 10.5.9.1 |

| | | | | |
|--------------------|-----|-----------|-----------------|-----------|
| PC-FIN-1(1) | NIC | 10.5.9.66 | 255.255.255.192 | 10.5.9.65 |
| PC-FIN-2(1) | NIC | 10.5.9.67 | 255.255.255.192 | 10.5.9.65 |
| PC-FIN-3(1) | NIC | 10.5.9.68 | 255.255.255.192 | 10.5.9.65 |
| PC-FIN-4(1) | NIC | 10.5.9.69 | 255.255.255.192 | 10.5.9.65 |
| PC-FIN-5(1) | NIC | 10.5.9.70 | 255.255.255.192 | 10.5.9.65 |

IPv6

| Device Name | Interface | IP Address | Subnet Mask | Default Gateway Address | Link Local |
|---------------------|------------------|---------------------------------------|--------------------|--------------------------------|-------------------|
| R-LON-1 | Fa 0/3/0 | 2001:db8:acad:501::1 | /64 | - | FE80:1::1 |
| | Fa 0/3/1 | 2001:db8:acad:502::1 | /64 | - | FE80:2::1 |
| | Fa 0/3/2 | 2001:db8:acad:503::1 | /64 | - | FE80:3::1 |
| | Fa 0/3/3 | 2001:db8:acad:504::1 | /64 | - | FE80:4::1 |
| SW-IT-1(1) | VLAN 1 | 2001:db8:acad:501:ffff:ffff:ffff:ffff | /64 | 2001:db8:acad:501::1 | FE80:1::ffff |
| SW-MGMT-1(1) | VLAN 1 | 2001:db8:acad:502:ffff:ffff:ffff:ffff | /64 | 2001:db8:acad:502::1 | FE80:2::ffff |
| SW-HR-1(1) | VLAN 1 | 2001:db8:acad:503:ffff:ffff:ffff:ffff | /64 | 2001:db8:acad:503::1 | FE80:3::ffff |
| SW-FIN-1(1) | VLAN 1 | 2001:db8:acad:504:ffff:ffff:ffff:ffff | /64 | 2001:db8:acad:504::1 | FE80:4::ffff |
| PC-IT-1(1) | NIC | 2001:db8:acad:501::2 | /64 | 2001:db8:acad:501::1 | FE80:1::2 |
| PC-IT-2(1) | NIC | 2001:db8:acad:501::3 | /64 | 2001:db8:acad:501::1 | FE80:1::3 |
| PC-IT-3(1) | NIC | 2001:db8:acad:501::4 | /64 | 2001:db8:acad:501::1 | FE80:1::4 |
| PC-IT-4(1) | NIC | 2001:db8:acad:501::5 | /64 | 2001:db8:acad:501::1 | FE80:1::5 |
| PC-IT-5(1) | NIC | 2001:db8:acad:501::6 | /64 | 2001:db8:acad:501::1 | FE80:1::6 |
| PC-MGMT-1(1) | NIC | 2001:db8:acad:502::2 | /64 | 2001:db8:acad:502::1 | FE80:2::2 |

| | | | | | |
|---------------------|------------|----------------------|-----|----------------------|-----------|
| PC-MGMT-2(1) | NIC | 2001:db8:acad:502::3 | /64 | 2001:db8:acad:502::1 | FE80:2::3 |
| PC-MGMT-3(1) | NIC | 2001:db8:acad:502::4 | /64 | 2001:db8:acad:502::1 | FE80:2::4 |
| PC-MGMT-4(1) | NIC | 2001:db8:acad:502::5 | /64 | 2001:db8:acad:502::1 | FE80:2::5 |
| PC-MGMT-5(1) | NIC | 2001:db8:acad:502::6 | /64 | 2001:db8:acad:502::1 | FE80:2::6 |
| | | | | | |
| PC-HR-1(1) | Wireless 0 | 2001:db8:acad:503::2 | /64 | 2001:db8:acad:503::1 | FE80:3::2 |
| PC-HR-2(1) | Wireless 0 | 2001:db8:acad:503::3 | /64 | 2001:db8:acad:503::1 | FE80:3::3 |
| PC-HR-3(1) | Wireless 0 | 2001:db8:acad:503::4 | /64 | 2001:db8:acad:503::1 | FE80:3::4 |
| PC-HR-4(1) | Wireless 0 | 2001:db8:acad:503::5 | /64 | 2001:db8:acad:503::1 | FE80:3::5 |
| PC-HR-5(1) | Wireless 0 | 2001:db8:acad:503::6 | /64 | 2001:db8:acad:503::1 | FE80:3::6 |
| | | | | | |
| PC-FIN-1(1) | NIC | 2001:db8:acad:504::2 | /64 | 2001:db8:acad:504::1 | FE80:4::2 |
| PC-FIN-2(1) | NIC | 2001:db8:acad:504::3 | /64 | 2001:db8:acad:504::1 | FE80:4::3 |
| PC-FIN-3(1) | NIC | 2001:db8:acad:504::4 | /64 | 2001:db8:acad:504::1 | FE80:4::4 |
| PC-FIN-4(1) | NIC | 2001:db8:acad:504::5 | /64 | 2001:db8:acad:504::1 | FE80:4::5 |
| Pc-FIN-5(1) | NIC | 2001:db8:acad:504::6 | /64 | 2001:db8:acad:504::1 | FE80:4::6 |

Devanshu Jamwal

Site 3

There are 4 Networks for different departments in the company.

- Information Technology (I.T.) LAN 1
- Management (MGMT) LAN 2
- Finance (FIN) LAN 3
- Human Resources (HR) LAN 4

Network #1:

| | |
|--------------|------------|
| LAN 1 | 84 Hosts |
| LAN 2 | 211 Hosts |
| LAN 3 | 1074 Hosts |
| LAN 4 | 143 Hosts |

| Network Name | Hosts Needed | Total available IP Addresses allocated | Prefix | Network Address | First Usable Host Address | Last Usable Host Address | Broadcast Address | Subnet Mask |
|--------------|--------------|--|--------|-----------------|---------------------------|--------------------------|-------------------|-------------|
| | | | | | | | | |

| | | | | | | | | |
|--------------|------|------|----|-----------|-----------|-------------|-------------|-----------------|
| LAN 1 | 1074 | 2046 | 21 | 10.9.0.0 | 10.9.0.1 | 10.9.7.254 | 10.9.7.255 | 255.255.248.0 |
| LAN 3 | 211 | 254 | 24 | 10.9.8.0 | 10.9.8.1 | 10.9.8.254 | 10.9.8.255 | 255.255.255.0 |
| LAN 2 | 143 | 254 | 24 | 10.9.9.0 | 10.9.9.1 | 10.9.9.254 | 10.9.9.255 | 255.255.255.0 |
| LAN 4 | 43 | 126 | 25 | 10.9.10.0 | 10.9.10.1 | 10.9.10.126 | 10.9.10.127 | 255.255.255.128 |

Network Addressing Table

| Device Name | Interface | IP Address | Subnet Mask | Default Gateway Address |
|----------------|-----------|-------------|-----------------|-------------------------|
| Router0 | Eth 1/0 | 10.9.0.110 | 255.255.248.0 | |
| | Eth 1/1 | 10.9.8.1 | 255.255.255.0 | |
| | Eth 1/2 | 10.9.9.1 | 255.255.255.0 | |
| | Eth 1/3 | 10.9.10.1 | 255.255.255.128 | |
| | Gig0/3/0 | 10.9.10.129 | 255.255.255.252 | |
| | | | | |
| Switch0 | VLAN 1 | 10.9.7.254 | 255.255.248.0 | 10.9.0.1 |
| Switch1 | VLAN 1 | 10.9.8.254 | 255.255.255.0 | 10.9.8.1 |
| Switch2 | VLAN 1 | 10.9.9.254 | 255.255.255.0 | 10.9.9.1 |
| Switch3 | VLAN 1 | 10.9.10.126 | 255.255.255.128 | 10.9.10.1 |
| | | | | |
| PC-IT1 | NIC | 10.9.0.2 | 255.255.248.0 | 10.9.0.1 |
| PC-IT2 | NIC | 10.9.0.3 | 255.255.248.0 | 10.9.0.1 |
| PC-IT3 | NIC | 10.9.0.4 | 255.255.248.0 | 10.9.0.1 |
| PC4-IT4 | NIC | 10.9.0.5 | 255.255.248.0 | 10.9.0.1 |
| PC5-IT5 | NIC | 10.9.0.6 | 255.255.248.0 | 10.9.0.1 |
| PC-FIN1 | NIC | 10.9.8.2 | 255.255.255.0 | 10.9.8.1 |
| PC-FIN2 | NIC | 10.9.8.3 | 255.255.255.0 | 10.9.8.1 |
| PC-FIN3 | NIC | 10.9.8.4 | 255.255.255.0 | 10.9.8.1 |
| PC-FIN4 | NIC | 10.9.8.5 | 255.255.255.0 | 10.9.8.1 |
| PC-FIN5 | NIC | 10.9.8.6 | 255.255.255.0 | 10.9.8.1 |
| PC-HR1 | NIC | 10.9.9.2 | 255.255.255.0 | 10.9.9.1 |
| PC-HR2 | NIC | 10.9.9.3 | 255.255.255.0 | 10.9.9.1 |
| PC-HR3 | NIC | 10.9.9.4 | 255.255.255.0 | 10.9.9.1 |

| | | | | |
|-----------------|-----|-----------|-----------------|-----------|
| PC-HR4 | NIC | 10.9.9.5 | 255.255.255.0 | 10.9.9.1 |
| PC-HR5 | NIC | 10.9.9.6 | 255.255.255.0 | 10.9.9.1 |
| PC-MGMT1 | NIC | 10.9.10.2 | 255.255.255.128 | 10.9.10.1 |
| PC-MGMT2 | NIC | 10.9.10.3 | 255.255.255.128 | 10.9.10.1 |
| PC-MGMT3 | NIC | 10.9.10.4 | 255.255.255.128 | 10.9.10.1 |
| PC-MGMT4 | NIC | 10.9.10.5 | 255.255.255.128 | 10.9.10.1 |
| PC-MGMT5 | NIC | 10.9.10.6 | 255.255.255.128 | 10.9.10.1 |

IPv6

| Device Name | Interface | IP Address | Subnet Mask | Default Gateway Address | Link Local |
|------------------|-----------|--------------------------------------|-------------|-------------------------|--------------------------|
| Router0 | Eth1/0 | 2001:db8:acad:0900::1 | /64 | | FE80::1 |
| | Eth 1/1 | 2001:db8:acad:0901::1 | /64 | | FE80:1::1 |
| | Eth1/2 | 2001:db8:acad:0902::1 | /64 | | FE80:2::1 |
| | Eth1/3 | 2001:db8:acad:0903::1 | /64 | | FE80:3::1 |
| SW-IT-1 | VLAN 1 | 2001:db8:acad:0900:ffff:ffff:ff:ffff | /64 | 2001:db8:acad:0900::1 | FE80::ffff:ffff:ffff:fff |
| SW-MGMT-1 | VLAN 1 | 2001:db8:acad:0901:ffff:ffff:ff:ffff | /64 | 2001:db8:acad:0901::1 | FE80::1:ffff:ffff:ffff |
| SW-FIN-1 | VLAN 1 | 2001:db8:acad:0902:ffff:ffff:ff:ffff | /64 | 2001:db8:acad:0902::1 | FE80::2:ffff:ffff:ffff |
| SW-HR-1 | VLAN 1 | 2001:db8:acad:0903:ffff:ffff:ff:ffff | /64 | 2001:db8:acad:0903::1 | FE80::3:ffff:ffff:ffff |
| PC-IT-1 | NIC | 2001:db8:acad:0900::2 | /64 | 2001:db8:acad:0900::1 | FE80::2 |
| PC-IT-2 | NIC | 2001:db8:acad:0900::3 | /64 | 2001:db8:acad:0900::1 | FE80::3 |
| PC-IT-3 | NIC | 2001:db8:acad:0900::4 | /64 | 2001:db8:acad:0900::1 | FE80::4 |
| PC-IT-4 | NIC | 2001:db8:acad:0900::5 | /64 | 2001:db8:acad:0900::1 | FE80::5 |
| PC-IT-5 | NIC | 2001:db8:acad:0900::6 | /64 | 2001:db8:acad:0900::1 | FE80::6 |
| PC-MGMT-1 | NIC | 2001:db8:acad:0901::2 | /64 | 2001:db8:acad:0901::1 | FE80:1::2 |
| PC-MGMT-2 | NIC | 2001:db8:acad:0901::3 | /64 | 2001:db8:acad:0901::1 | FE80:1::3 |

| | | | | | |
|------------------|-----|-----------------------|-----|-----------------------|-----------|
| PC-MGMT-3 | NIC | 2001:db8:acad:0901::4 | /64 | 2001:db8:acad:0901::1 | FE80:1::4 |
| PC-MGMT-4 | NIC | 2001:db8:acad:0901::5 | /64 | 2001:db8:acad:0901::1 | FE80:1::5 |
| PC-MGMT-5 | NIC | 2001:db8:acad:0901::6 | /64 | 2001:db8:acad:0901::1 | FE80:1::6 |
| PC-FIN-1 | NIC | 2001:db8:acad:0902::2 | /64 | 2001:db8:acad:0902::1 | FE80:2::2 |
| PC-FIN-2 | NIC | 2001:db8:acad:0902::3 | /64 | 2001:db8:acad:0902::1 | FE80:2::3 |
| PC-FIN-3 | NIC | 2001:db8:acad:0902::4 | /64 | 2001:db8:acad:0902::1 | FE80:2::4 |
| PC-FIN-4 | NIC | 2001:db8:acad:0902::5 | /64 | 2001:db8:acad:0902::1 | FE80:2::5 |
| PC-FIN-5 | NIC | 2001:db8:acad:0902::6 | /64 | 2001:db8:acad:0902::1 | FE80:2::6 |
| PC-HR-1 | NIC | 2001:db8:acad:0903::2 | /64 | 2001:db8:acad:0903::1 | FE80:3::2 |
| PC-HR-2 | NIC | 2001:db8:acad:0903::3 | /64 | 2001:db8:acad:0903::1 | FE80:3::3 |
| PC-HR-3 | NIC | 2001:db8:acad:0903::4 | /64 | 2001:db8:acad:0903::1 | FE80:3::4 |
| PC-HR-4 | NIC | 2001:db8:acad:0903::5 | /64 | 2001:db8:acad:0903::1 | FE80:3::5 |
| PC-HR-5 | NIC | 2001:db8:acad:0903::6 | /64 | 2001:db8:acad:0903::1 | FE80:3::6 |

Server Network

| Device Name | Interface | IP address | Subnet Mask | Default Gateway |
|-------------|-----------|--|---|-----------------|
| Router0 | Gig0/3/0 | IPv4: 192.168.10.2 IPv6: 2001:db8:acad:11 06::2 | IPv4: 255.255.255.252 IPv6: /64 | - |
| | Fa0/0 | IPv4: 192.168.20.1 IPv6: 2001:db8:acad:11 07::1 | IPv4: 255.255.255.0 IPv6: /64 | - |
| Server 0 | Fa0/0 | IPv4: 192.168.20.2 IPv6: 2001:db8:acad:11 07::2 | IPv4: 255.255.255.0 IPv6: /64 | - |

Passwords

Nandini Bisht's Calgary(HQ) Site

Configure Console Password: RoutingRulers@1234

Privileged Mode Password: RoutingRulers@1234

Telnet Password: RoutingRulers@1234

SSH Username: NandiniBisht

SSH Password: RoutingRulers@1234

Jasmine Kaur Sindhu's London Site

Configure Console Password: RoutingRulers@1234

Privileged Mode Password: RoutingRulers@1234

Telnet Password: RoutingRulers@1234

SSH Username: JasmineSindhu

SSH Password: RoutingRulers@1234

Devanshu Jamwal's Red Deer Site

Configure Console Password: RoutingRulers@1234

Privileged Mode Password: RoutingRulers@1234

Telnet Password: routingrulers@1234

SSH Username: devanshujamwal

SSH Password: RoutingRulers@1234