

Name of Device	IP address(range)	Subnet mask	Default Gateway
Router 1	10.0.0.1 - 10.0.0.254	255.255.0.0	10.0.0.1
Router 2	10.1.0.1 - 10.1.0.254	255.255.0.0	10.1.0.1
DNS Server	12.1.0.2 - 12.1.0.254	255.255.0.0	12.1.0.1
DHCP Server	12.1.0.3 - 12.1.0.254	255.255.0.0	12.1.0.1
Web Server	12.1.0.4 - 12.0.0.254	255.255.0.0	12.1.0.1
PC1	10.0.0.2 - 10.0.0.254	255.255.0.0	10.0.0.1
PC2	10.0.0.3 - 10.0.0.254	255.255.0.0	10.0.0.1
PC3	10.0.0.4 - 10.0.0.254	255.255.0.0	10.0.0.1
POS 1	10.0.0.5 - 10.0.0.254	255.255.0.0	10.0.0.1
Printer 1	10.0.0.6 - 10.0.0.254	255.255.0.0	10.0.0.1
PC4	10.1.0.2 - 10.1.0.254	255.255.0.0	10.1.0.1
PC5	10.1.0.8 - 10.1.0.254	255.255.0.0	10.1.0.1
PC6	10.1.0.9 - 10.1.0.254	255.255.0.0	10.1.0.1
POS 2	10.1.0.7 - 10.1.0.254	255.255.0.0	10.1.0.1
Printer 2	10.1.0.10 - 10.1.0.254	255.255.0.0	10.1.0.1
Laptop 1	10.1.0.11 - 10.1.0.254	255.255.0.0	10.0.0.1
Laptop 2	10.1.0.12 - 10.1.0.254	255.255.0.0	10.1.0.1
Laptop 3	10.1.0.13 - 10.1.0.254	255.255.0.0	10.1.0.1
Laptop 4	10.1.0.3 - 10.1.0.254	255.255.0.0	10.1.0.1
Laptop 5	10.1.0.14 - 10.1.0.254	255.255.0.0	10.1.0.1
Laptop 6	10.1.0.4 - 10.1.0.254	255.255.0.0	10.1.0.1
Laptop 7	10.0.0.7 - 10.0.0.254	255.255.0.0	10.0.0.1
Laptop 8	10.0.0.8 - 10.0.0.254	255.255.0.0	10.0.0.1
Laptop 9	10.0.0.9 - 10.0.0.254	255.255.0.0	10.0.0.1
Laptop 10	10.0.0.11 - 10.0.0.254	255.255.0.0	10.0.0.1
Laptop 11	10.0.0.12 - 10.0.0.254	255.255.0.0	10.0.0.1
Laptop 12	10.0.0.13 - 10.0.0.254	255.255.0.0	10.0.0.1
Internet Cloud	Null	Null	Null
5 Switchs	Null	Null	Null

Name of Device	Cable Type
Internet Cloud	Serial DTE
Router 1	Serial DTE
Router 2	Serial DTE
Switch 1-5	Copper Straight-Through
Laptop 1-12	Copper Straight-Through
PC 1-6	Copper Straight-Through
POS 1, POS 2	Copper Straight-Through
Printer 1, Printer 2	Copper Straight-Through
DNS Server	Copper Straight-Through
DHCP Server	Copper Straight-Through
Web Server	Copper Straight-Through

Role of Device
Provides internet access to the network.
Connects internal networks to the internet cloud.
Connects different segments of the network.
Connects multiple devices on a network, allowing them to communicate with each other.
Portable computing devices that connect to the network wirelessly.
Desktop computers that typically have a wired connection to the network.
Point of Sale systems for processing transactions.
Network printers that can receive print jobs over the network.
Provides name resolution services for the network.
Provides automatic IP address assignment to devices on the network.
Provides web content and services to authorized users over the network or the internet.