Small Office / Home Office Logical Topology:

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| --- | --- | --- |
| **Device Name and Port Number** | **Device Name and Port Number Connected t** | **Cable Type and Connectors on ends of cable (select RJ45 and standard – select either TI568A or TI568B** |
| Wireless Router0 on 0/1 | Connected to Switch0 on Port Gig0/1 | RJ45 using a straight through cable |
| PC0 on Fa0 | Connected to Switch0 on Port Fa0/2 | RJ45 using a straight through cable |
| PC1 on Fa0 | Connected to Switch0 on Port Fa0/3 | RJ45 using a straight through cable |
| PC7 on Fa0 | Connected to Switch0 on Port Fa0/4 | RJ45 using a straight through cable |
| DNS Server on Fa0 | Connected to Switch0 on Port Fa0/1 | RJ45 using a straight through cable |
| Internet on Fa0/0 | Connected to Wireless Router0 on Port 0/0 | RJ45 using a straight through cable |
| Laptop2 | Connected to Wireless Roter0 | Wireless |
| Laptop3 | Connected to Wireless Roter0 | Wireless |
| Cloud0 on Se0 | Connected to Internet on Port Fa0/0 | RJ45 using a Serial DCE cable |

List of all IP addresses in the small business / Home office network (wired and Wireless devices.):

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| --- | --- | --- | --- | --- | --- |
| **Device Name** | **Wired Connection = WC**  **Wireless Connection=WLC** | **IP Address** | **Subnet Mask** | **IP Address of Gateway** | **IP Address of DNS server** |
| Wireless Router 0 (internet) | WC | 192.168.2.2/24 | 255.255.255.0 | 192.168.2.1 | 8.8.8.8 |
| Wireless Router 0 | WC | 192.168.1.1/24 | 255.255.255.0 | 192.168.2.1 | 192.168.1.2 |
| Windows DNS server | WC | 192.168.1.2/24 | 255.255.255.0 | 192.168.1.1 | 192.168.1.2 |
| Switch | WC | 192.168.1.3/24 | 255.255.255.0 | 192.168.1.1 | - |
| PC0,  PC1,  PC7 | WC | DHCP Pool– Range  192.168.1.50 -124 | 255.255.255.0 | 192.168.1.1 | 192.168.1.2 |
| Laptop2,  Laptop3 | WLC | DHCP Pool– Range 192.168.1.50- 124 | 255.255.255.0 | 192.168.1.1 | 192.168.1.2 |