**192.168.56.1 - IP address is in private non-routable range.**

**Private IP Address Ranges**

Address ranges below are reserved by IANA for private intranets, and not routable to the Internet.

For additional information, see RFC 1918.

10.0.0.0 ~ 10.255.255.255 (10.0.0.0/8 prefix)

172.16.0.0 ~ 172.31.255.255 (172.16.0.0/12 prefix)

192.168.0.0 ~ 192.168.255.255 (192.168.0.0/16 prefix)

**Reserved and special use addresses:**

0.0.0.0/8 - Current network (only valid as source address) RFC 1700

127.0.0.0 is reserved for loopback and IPC on the localhost.

127.0.0.1 ~ 127.255.255.254 (127.0.0.0/8) - loopback IP addresses (refers to self) RFC 5735

192.0.0.0/24 - reserved (IANA) RFC 5735

192.88.99.0/24 - IPv6 to IPv4 relay. RFC 3068

198.18.0.0/15 - network benchmark tests. RFC 2544

198.51.100.0/24 - TEST-NET-2. RFC 5737

203.0.113.0/24 - TEST-NET-3. RFC 5737

224.0.0.0 ~ 239.255.255.255 (224.0.0.0/4) reserved for multicast addresses. RFC 3171

240.0.0.0/4 - reserved (former Class E network) RFC 1700

255.255.255.255 is the limited broadcast address (limited to all other nodes on the LAN) RFC 919

255 in any part of the IP is reserved for broadcast addressing

0.0.0.0 in routing context means the default route (to "the rest of" the internet) RFC 1700

0.0.0.0 in the context of firewalls means "all addresses of the local machine" RFC 1700

**Notes:**