

Router
IN → CLI

Lab-2

Aim: Configuring IP address to Router in packet tracer explore following message ping responses destination unreachable request time out.

Router > enable

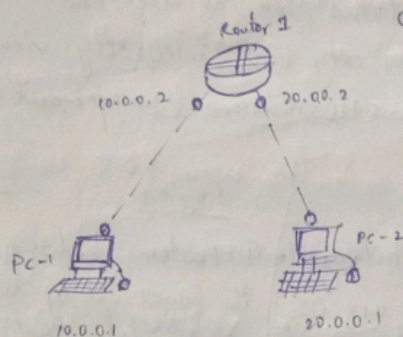
Router# config t

Router (Config)# interface FastEthernet 0/0

Router (Config-if)# ip address 10.0.0.2 255.0.0.0

Router (Config-if)# no shutdown

configuration of Router



PC-1

PC > ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data :
reply from 10.0.0.2 : bytes = 32 Time = 1ms TTL = 255
reply from 10.0.0.2 : bytes = 32 Time = 0ms TTL = 255
reply from 10.0.0.2 : bytes = 32 Time = 0ms TTL = 255
reply from 10.0.0.2 : bytes = 32 Time = 0ms TTL = 255
reply from 10.0.0.2 : bytes = 32 Time = 0ms TTL = 255

ping statistics for 10.0.0.2 :

packets : Sent = 4 , Received = 4 , lost = 0 (0% loss),

Approximate round trip times in milliseconds :

minimum = 0ms , maximum = 1ms , Average = 50ms

> ping 20.0.0.1

pinging 20.0.0.1 with 32 bytes of data

reply from 20.0.0.1 : bytes = 32 time = 0ms TTL = 127

reply from 20.0.0.1 : bytes = 32 time = 0ms TTL = 127

reply from 20.0.0.1 bytes = 32 time = 0ms TTL = 127

reply from 20.0.0.1 bytes = 32 time = 0ms TTL = 127

ping statistics for 20.0.0.1

Packets: sent = 4, received = 4, lost = 0 (0% loss)

Approximate round trip times in ms

Min = 0ms, Max = 0ms, Avg = 0ms

Observation:

- when a simple IPv6 is sent b/w two devices request time out occurs because the gateways aren't configured i.e. the two networks are isolated
- when the gateways are configured and a simple IPv6 is received appropriately at the network.