Lab

In the resulting window, type “ipconfig /all”. Describe what you see. Can you find the MAC address IPv4 and IPv6 address of your machine?

IPv4 10.24.34.36(Preferred)

IPv6 fe80::4d3:9100:7f3:abe2%2(Preferred)

DNS: bind a domain to a public IP address

DHCP: generate and configure local network IP addresses to each machine

Ping -t options pings until it stops by user

Ping localhost its pinging itself therefore will us the name of the computer and will invoke information from internet loop

B400229PC15.ad.uow.edu.au

Ping –t mirro.arrnet.edu.au takes a long time because you are using the Ethernet connection and you have to go through the DNS system and waiting the machine you’re pinging to respond to get information from the address

Pinging mirror.aarnet.edu.au [202.158.214.106] with 32 bytes of data:

Reply from 202.158.214.106: bytes=32 time=11ms TTL=54

Reply from 202.158.214.106: bytes=32 time=12ms TTL=54

Reply from 202.158.214.106: bytes=32 time=12ms TTL=54

Reply from 202.158.214.106: bytes=32 time=12ms TTL=54

Reply from 202.158.214.106: bytes=32 time=11ms TTL=54

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Reply from 202.158.214.106: bytes=32 time=11ms TTL=54

Min 11

Max 12 Avg 11.5

<http://ftp.w3c.org.au/>

the domain isn’t in use anymore

alternative is w3c.org.au

Pinging w3c.org.au [150.203.161.102] with 32 bytes of data:

Reply from 150.203.161.102: bytes=32 time=9ms TTL=52

Reply from 150.203.161.102: bytes=32 time=9ms TTL=52

Reply from 150.203.161.102: bytes=32 time=9ms TTL=52

Reply from 150.203.161.102: bytes=32 time=9ms TTL=52

Reply from 150.203.161.102: bytes=32 time=9ms TTL=52

Reply from 150.203.161.102: bytes=32 time=9ms TTL=52

Reply from 150.203.161.102: bytes=32 time=27ms TTL=52

Reply from 150.203.161.102: bytes=32 time=9ms TTL=52

Reply from 150.203.161.102: bytes=32 time=9ms TTL=52

Reply from 150.203.161.102: bytes=32 time=10ms TTL=52

Reply from 150.203.161.102: bytes=32 time=9ms TTL=52

Reply from 150.203.161.102: bytes=32 time=10ms TTL=52

Reply from 150.203.161.102: bytes=32 time=10ms TTL=52

Reply from 150.203.161.102: bytes=32 time=10ms TTL=52

Min:9ms

Max:10ms

Pinging www.google.com [216.58.200.100] with 32 bytes of data:

Reply from 216.58.200.100: bytes=32 time=5ms TTL=51

Reply from 216.58.200.100: bytes=32 time=5ms TTL=51

Reply from 216.58.200.100: bytes=32 time=5ms TTL=51

Reply from 216.58.200.100: bytes=32 time=5ms TTL=51

Reply from 216.58.200.100: bytes=32 time=5ms TTL=51

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Reply from 216.58.200.100: bytes=32 time=5ms TTL=51

Reply from 216.58.200.100: bytes=32 time=5ms TTL=51

Ping statistics for 216.58.200.100:

Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 5ms, Maximum = 5ms, Average = 5ms

Pinging e3161.i.akamaiedge.net [104.74.40.49] with 32 bytes of data:

Reply from 104.74.40.49: bytes=32 time=7ms TTL=54

Reply from 104.74.40.49: bytes=32 time=7ms TTL=54

Reply from 104.74.40.49: bytes=32 time=7ms TTL=54

Reply from 104.74.40.49: bytes=32 time=7ms TTL=54

Ping statistics for 104.74.40.49:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 7ms, Maximum = 7ms, Average = 7ms

Since last ip has a redirection request so it will result a time out

[https://www.itu.int](https://www.itu.int/)