

LINUX NETWORKING MODULE 1 AND 2 ASSESSMENT SOLUTIONS

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4. Understand linux utility commands like-ping, arp

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sakthi-kumar-s@sakthi-kumar-s-VirtualBox: ~  
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:~$ ping -c 4 google.com  
PING google.com (142.250.183.238) 56(84) bytes of data.  
64 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=1 ttl=255 time=96.5 ms  
64 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=2 ttl=255 time=103 ms  
64 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=3 ttl=255 time=72.1 ms  
64 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=4 ttl=255 time=67.7 ms  
  
--- google.com ping statistics ---  
4 packets transmitted, 4 received, 0% packet loss, time 3006ms  
rtt min/avg/max/mdev = 67.709/84.850/103.080/15.193 ms  
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:~$ ping -i 2 google.com  
PING google.com (142.250.183.238) 56(84) bytes of data.  
64 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=1 ttl=255 time=61.0 ms  
64 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=2 ttl=255 time=76.2 ms  
64 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=3 ttl=255 time=53.7 ms  
64 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=4 ttl=255 time=62.4 ms  
^Z  
[1]+  Stopped                  ping -i 2 google.com  
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:~$ ping -t 64 google.com  
PING google.com (142.250.183.238) 56(84) bytes of data.  
64 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=1 ttl=255 time=85.0 ms  
64 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=2 ttl=255 time=81.3 ms  
64 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=3 ttl=255 time=72.2 ms  
64 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=4 ttl=255 time=55.2 ms  
^Z  
[2]+  Stopped                  ping -t 64 google.com  
  
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:~$ ping -s 1000 google.com  
PING google.com (142.250.183.238) 1000(1028) bytes of data.  
1008 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=1 ttl=255 time=654 ms  
1008 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=2 ttl=255 time=88.9 ms  
1008 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=3 ttl=255 time=91.2 ms  
1008 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=4 ttl=255 time=79.9 ms  
1008 bytes from maa05s23-in-f14.1e100.net (142.250.183.238): icmp_seq=5 ttl=255 time=83.6 ms  
^Z  
[3]+  Stopped                  ping -s 1000 google.com  
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:~$ arp -a  
_gateway (10.0.2.2) at 52:55:0a:00:02:02 [ether] on enp0s3  
? (10.0.2.3) at 52:55:0a:00:02:03 [ether] on enp0s3  
  
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:~$ arp -i enp0s3  
Address HWtype HWAddress Flags Mask Iface  
_gateway ether 52:55:0a:00:02:02 C 10.0.2.2 enp0s3  
10.0.2.3 ether 52:55:0a:00:02:03 C 10.0.2.3 enp0s3  
  
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:/var/lib/dhcpd$ ip neigh show  
10.0.2.2 dev enp0s3 lladdr 52:55:0a:00:02:02 STALE  
10.0.2.3 dev enp0s3 lladdr 52:55:0a:00:02:03 STALE  
fd00::2 dev enp0s3 lladdr 52:56:00:00:00:02 router STALE  
fe80::2 dev enp0s3 lladdr 52:56:00:00:00:02 router STALE
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