

# Palo Alto Firewall Homework





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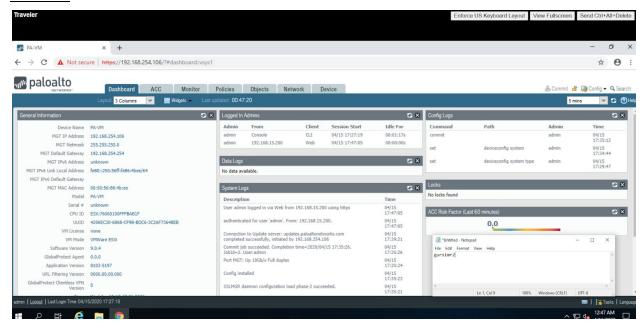


```
admin@PA-UM> ping host 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=50 time=14.0 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=50 time=13.9 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=50 time=13.9 ms
64 bytes from 8.8.8.8: icmp seq=4 ttl=50 time=14.0 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=50 time=14.0 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=50 time=13.7 ms
64 bytes from 8.8.8.8: icmp_seq=7 ttl=50 time=13.9 ms
64 bytes from 8.8.8.8: icmp_seq=8 ttl=50 time=13.9 ms
64 bytes from 8.8.8.8: icmp_seq=9 ttl=50 time=13.9 ms
64 bytes from 8.8.8.8: icmp_seq=10 ttl=50 time=13.9 ms
64 butes from 8.8.8.8: icmp seg=11 ttl=50 time=13.9 ms
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=50 time=14.1 ms 64 bytes from 8.8.8.8: icmp_seq=2 ttl=50 time=13.9 ms 64 bytes from 8.8.8.8: icmp_seq=3 ttl=50 time=13.8 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=50 time=13.9 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=50 time=13.9 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=50 time=13.9 ms
64 bytes from 8.8.8.8: icmp_seq=7 ttl=50 time=13.9 ms
64 bytes from 8.8.8.8: icmp_seq=8 ttl=50 time=13.9 ms
64 bytes from 8.8.8.8: icmp_seq=9 ttl=50 time=13.9 ms
64 bytes from 8.8.8.8: icmp_seq=10 ttl=50 time=13.7 ms
64 bytes from 8.8.8.8: icmp_seq=11 ttl=50 time=13.7 ms 64 bytes from 8.8.8.8: icmp_seq=12 ttl=50 time=13.7 ms 64 bytes from 8.8.8.8: icmp_seq=13 ttl=50 time=13.7 ms 64 bytes from 8.8.8.8: icmp_seq=13 ttl=50 time=13.7 ms
                                                                "Untitled - Notepad
                                                                 File Edit Format View Help
                                                                 gursimr2
64 bytes from 8.8.8.8: icmp_seq=14 ttl=50 time=13.7 ms
^c
--- 8.8.8.8 ping statistics ---
                                                                                100% Wir
14 packets transmitted, 14 received, 0% packet loss, time 13012
```

Proving Connection between Firewall and 8.8.8.8

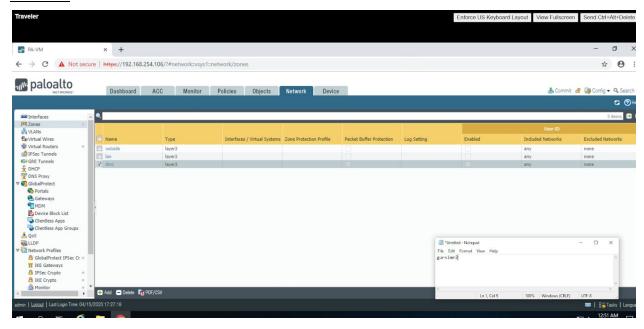
rtt min/avg/max/mdev = 13.777/13.883/14.105/0.120 ms





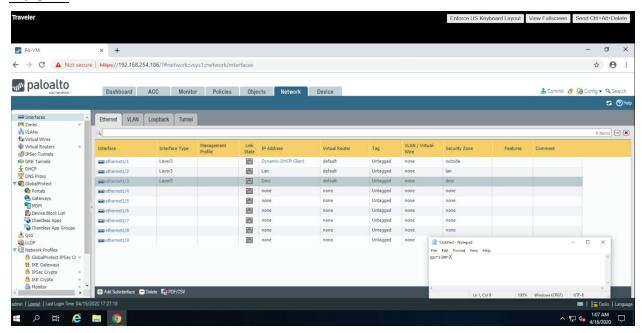
Palo Alto Firewall Landing Page upon first login





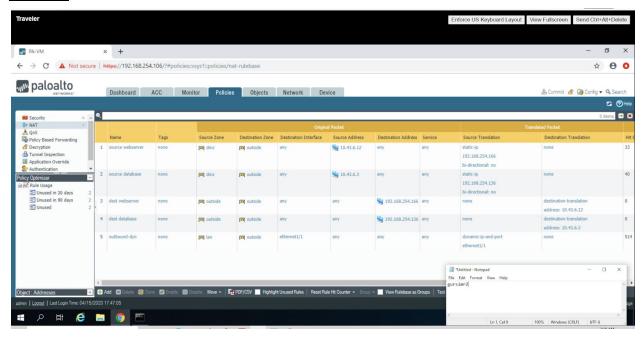
Setting Up Zones





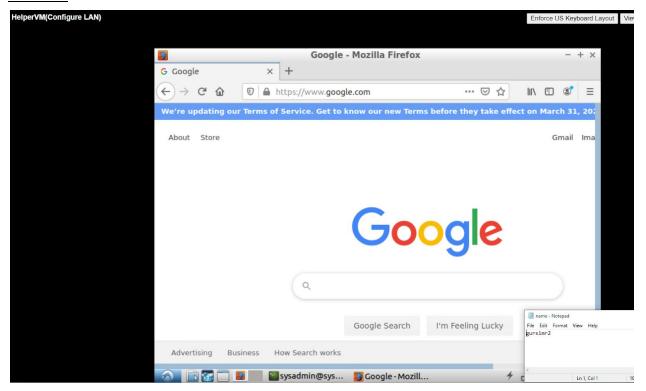
Setting Up Interfaces





Creating NAT Policies





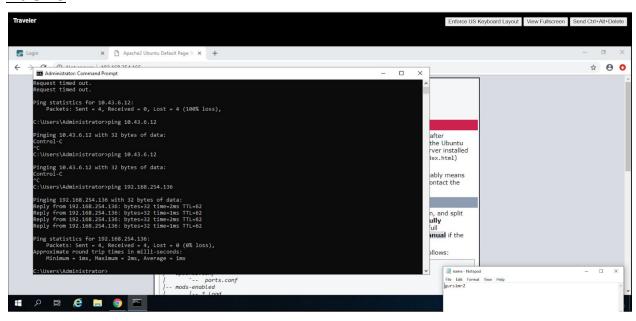
**Checking Internet Connection** 





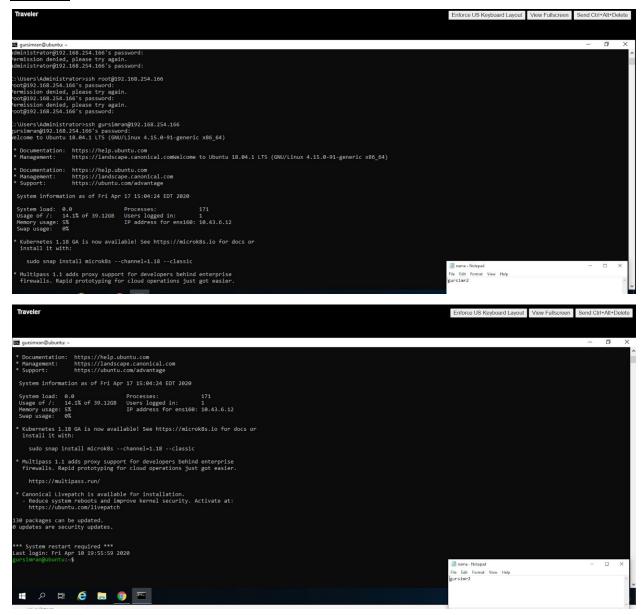
Connecting to webserver using publicIP from outside zone.





Pinging to Database Server to check Connectivity.

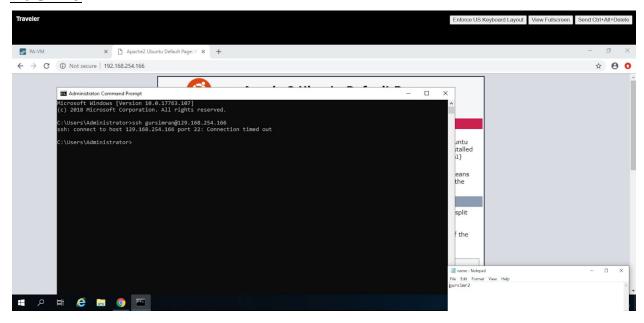




SSH into Webserver with a user(or root if permitted) and getting the remote shell to check ssh working.

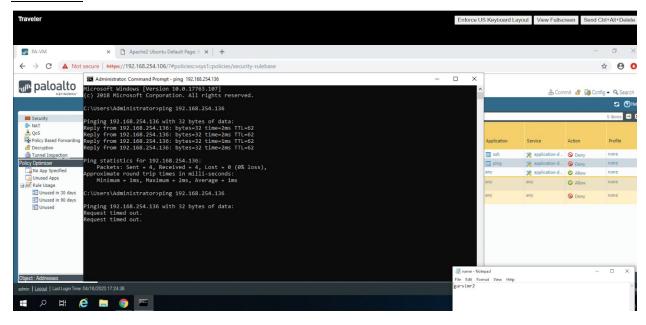


## <u>Task10</u>

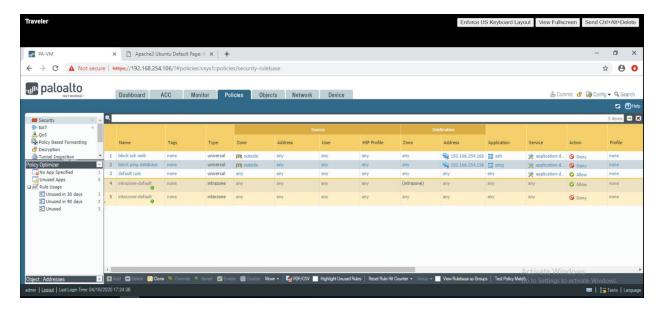


SSH Blocked from outside to Public IP of Webserver by Firewall





#### Blocked Ping to Database Server from Outside



Security Policies







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