


```
[ec2-user@ip-10-0-200-52 ~]$ ping google.com
PING google.com (142.58.267.70) 56(84) bytes of data:
...
google.com ping statistics ...
2 packets transmitted, 0 received, 100% packet loss, time 1822ms
.....
[ec2-user@ip-10-0-200-52 ~]$ dig google.com
; <> ID= 0, 2rc1-AdMqM: 9.8.2-0.0.2.rc1.57, ans=1 <>> google.com
;; global options: <end>
;; Got answer:
;;->HEADER<: opcode: QUERY, status: NOERROR, id: 65196
;; Flags: qr rd ra QRDY, 1, ANSWER: 5, AUTHORITY: 0, ADDITIONAL: 0
;; QUESTION SECTION:
;google.com.
IN A
;; ANSWER SECTION:
google.com.
54 IN A 172.217.22.110
;; Query time: 0 msec
;; SERVER: 10.0.0.253(10.0.0.2)
;; WHEN: Tue Mar 13 17:15:57 2018
;; MSG SIZE rcvd: 44

[ec2-user@ip-10-0-200-52 ~]$ ping google.com
PING google.com (172.217.22.110) 56(84) bytes of data:
64 bytes from fra1518-in-f14.1e100.net (172.217.22.110): icmp_seq=1 ttl=53 time=1.13 ms
64 bytes from fra1518-in-f14.1e100.net (172.217.22.110): icmp_seq=2 ttl=53 time=0.22 ms
64 bytes from fra1518-in-f14.1e100.net (172.217.22.110): icmp_seq=3 ttl=53 time=1.17 ms
...
google.com ping statistics ...
3 packets transmitted, 3 received, 0% packet loss, time 2802ms
rtt min/avg/max/mdev = 1.130/1.177/1.226/0.848 ms
.....
----- DNS Names-----
com.amazonaws.ec-central-1:3 is the service name

The names for the services are:
s3.ec-central-1.amazonaws.com
kms.ec-central-1.amazonaws.com
ec2.ec-central-1.amazonaws.com

----- AWS VPC peering/endpoints-----
VPC Endpoints Gateway (VPC Peering) Name
53
VPC Endpoint Type Interface have the following services:
Cohesity
ec2
ec2messages
elasticloadbalancing
execute-api
kms
servicedcatalog
sns
sqs

To use private DNS names, ensure that the attributes 'Enable DNS hostnames'
and 'Enable DNS Support' are set to 'true' for your VPC

----- SSM from linux to linux using the certificate-----
chmod 0700 /key/frankfort_2.pem
ssh -i /key/frankfort_2.pem ec2-user@ip-10-0-200-52

----- PROXY configuration in linux-----
export http_proxy=http://10.40.202.100:8080/
export https_proxy=https://10.40.202.100:8080/

To verify the proxy:
echo $http_proxy
echo $https_proxy

Remove the proxy config:
unset http_proxy
unset https_proxy

Proxy user Authentication
$ export http_proxy="http://USER:PASSWORD@PROXY_SERVER:PORT"
$ export https_proxy="https://USER:PASSWORD@PROXY_SERVER:PORT"
$ export ftp_proxy="ftp://USER:PASSWORD@PROXY_SERVER:PORT"

How to make it valid for all the users?
How to make it valid after the reboot?

----- NTP General-----
timedatectl status
shor@ip-10-0-110-82:/etc/systemd$ timedatectl status
Local time: wed 2018-03-14 11:35:18 UTC
Universal time: wed 2018-03-14 11:35:18 UTC
RTC time: wed 2018-03-14 11:35:18
Time zone: Etc/UTC (UTC, +0000)
Network time on: yes
NTP synchronized: yes
RTC in local TZ: no

shor@ip-10-0-110-82:/etc/systemd$ systemctl status systemd-timesyncd
systemd-timesyncd.service - Network Time Synchronization
loaded: loaded (/lib/systemd/system/systemd-timesyncd.service; enabled; vendor preset: enabled)
Drop-In: /lib/systemd/systemd-timesyncd.service.d
Disable-with: time-daemon.conf
Active: active (running) since wed 2018-03-14 10:28:35 UTC; 1h 7min ago
Docs: man:systemd-timesyncd.service(8)
Main PID: 530 (systemd-timesyncd)
Status: "Synchronized to time server 91.189.91.125:123 (ntp.ubuntu.com).".
Tasks: 2
Memory: 552.0K
CGroup: /system.slice/systemd-timesyncd.service
└─530 /lib/systemd/systemd-timesyncd

Mar 14 10:29:46 ip-10-0-110-82 systemd-timesyncd[530]: Timed out waiting for reply from 91.189.91.125:123 (ntp.ubu
Mar 14 10:30:10 ip-10-0-110-82 systemd-timesyncd[530]: Timed out waiting for reply from 91.189.91.125:123 (ntp.ubu
Mar 14 10:30:34 ip-10-0-110-82 systemd-timesyncd[530]: Timed out waiting for reply from 91.189.91.125:123 (ntp.ubu
Mar 14 10:30:59 ip-10-0-110-82 systemd-timesyncd[530]: Timed out waiting for reply from 91.189.91.125:123 (ntp.ubu
Mar 14 10:31:23 ip-10-0-110-82 systemd-timesyncd[530]: Timed out waiting for reply from 91.189.91.125:123 (ntp.ubu
Mar 14 10:31:47 ip-10-0-110-82 systemd-timesyncd[530]: Timed out waiting for reply from 91.189.91.125:123 (ntp.ubu
Mar 14 10:32:11 ip-10-0-110-82 systemd-timesyncd[530]: Timed out waiting for reply from 91.189.91.125:123 (ntp.ubu
Mar 14 10:32:35 ip-10-0-110-82 systemd-timesyncd[530]: Timed out waiting for reply from 91.189.91.125:123 (ntp.ubu
Mar 14 10:32:59 ip-10-0-110-82 systemd-timesyncd[530]: Timed out waiting for reply from 91.189.91.125:123 (ntp.ubu
Mar 14 10:33:23 ip-10-0-110-82 systemd-timesyncd[530]: Timed out waiting for reply from 91.189.91.125:123 (ntp.ubu
Mar 14 10:33:47 ip-10-0-110-82 systemd-timesyncd[530]: Timed out waiting for reply from 91.189.91.125:123 (ntp.ubu
Mar 14 10:34:11 ip-10-0-110-82 systemd-timesyncd[530]: Synchronized to time server 91.189.91.125:123 (ntp.ubuntu.c
shor@ip-10-0-110-82:/etc/systemd$ date
wed Mar 14 11:36:14 UTC 2018

Additional NTP config can be done here:
/etc/systemd/timesyncd.conf

----- TEMPLATES-----
### Security Group Templates:
aws ec2 create-security-group --group-name Basic_Svc_SG --description "Basic_Svc_SG" --vpc-id vpc-3f4d5557
{
    "GroupID": "sg-111"
}
aws ec2 authorize-security-group-ingress --group-id sg-111 --protocol icmp --port all --cidr 0.0.0.0/0
aws ec2 revoke-security-group-egress --group-id sg-111 --protocol all --port all --cidr 0.0.0.0/0
aws ec2 authorize-security-group-egress --group-id sg-111 --protocol udp --port 53 --cidr 0.0.0.0/0
aws ec2 authorize-security-group-egress --group-id sg-111 --protocol icmp --port all --cidr 0.0.0.0/0

aws ec2 create-security-group --group-name M3N_Management_SG --description "M3N_Management_SG-Framewrk" --vpc-id vpc-3f4d5557
{
    "GroupID": "sg-211"
}
aws ec2 authorize-security-group-ingress --group-id sg-211 --protocol tcp --port 22 --cidr 10.40.42.0/24
aws ec2 authorize-security-group-ingress --group-id sg-211 --protocol tcp --port 22 --cidr 10.40.42.0/24
aws ec2 authorize-security-group-ingress --group-id sg-211 --protocol tcp --port 22 --cidr 10.40.46.0/24
aws ec2 revoke-security-group-egress --group-id sg-211 --protocol all --port all --cidr 0.0.0.0/0

aws ec2 create-security-group --group-name M3N_Management_SG --description "M3N_Management_SG-Framewrk" --vpc-id vpc-3f4d5557
{
    "GroupID": "sg-212"
}
aws ec2 authorize-security-group-ingress --group-id sg-212 --protocol tcp --port 3389 --cidr 10.40.42.0/24
aws ec2 authorize-security-group-ingress --group-id sg-212 --protocol tcp --port 3389 --cidr 10.40.42.0/24
aws ec2 authorize-security-group-ingress --group-id sg-212 --protocol tcp --port 3389 --cidr 10.40.46.0/24
aws ec2 revoke-security-group-egress --group-id sg-212 --protocol all --port all --cidr 0.0.0.0/0

aws ec2 create-security-group --group-name ReplicationSrvr-CloudEndure-P3C --description "CE_P3C_ReplicationServer_SG" --vpc-id vpc-3f4d5557
{
    "GroupID": "sg-311"
}
aws ec2 authorize-security-group-ingress --group-id sg-311 --protocol tcp --port 1500 --cidr 10.40.4.62/32
aws ec2 authorize-security-group-ingress --group-id sg-311 --protocol tcp --port 1500 --cidr 10.40.4.100/32
aws ec2 authorize-security-group-ingress --group-id sg-311 --protocol tcp --port 1500 --cidr 10.40.6.113/32
aws ec2 authorize-security-group-ingress --group-id sg-311 --protocol tcp --port 1500 --cidr 10.40.6.100/32
aws ec2 authorize-security-group-ingress --group-id sg-311 --protocol tcp --port 1500 --cidr 10.40.13.100/32
aws ec2 revoke-security-group-egress --group-id sg-311 --protocol all --port all --cidr 0.0.0.0/0
aws ec2 authorize-security-group-egress --group-id sg-311 --protocol tcp --port 8080 --cidr 10.40.202.100/32

----- cat /etc/redhat-release-----
cat /etc/redhat-release

To make a process survive reboot:
To auto start a new service:
1.Find out the name of service's script from /etc/init.d/ directory e.g. mysqld or httpd
2.Add it to chkconfig
sudo /sbin/chkconfig --add mysqld
3.Make sure it is in the chkconfig.
sudo /sbin/chkconfig --list mysqld
4.Set it to autostart
sudo /sbin/chkconfig mysqld on

To stop a service from auto starting on boot
sudo /sbin/chkconfig mysqld off

----- M3N-----
cd /usr/share/nginx/html
vi index.html

Configuration file /etc/nginx/conf.d/
Top config file: /etc/nginx
----- Nginx-----
to insert text
is space"
```