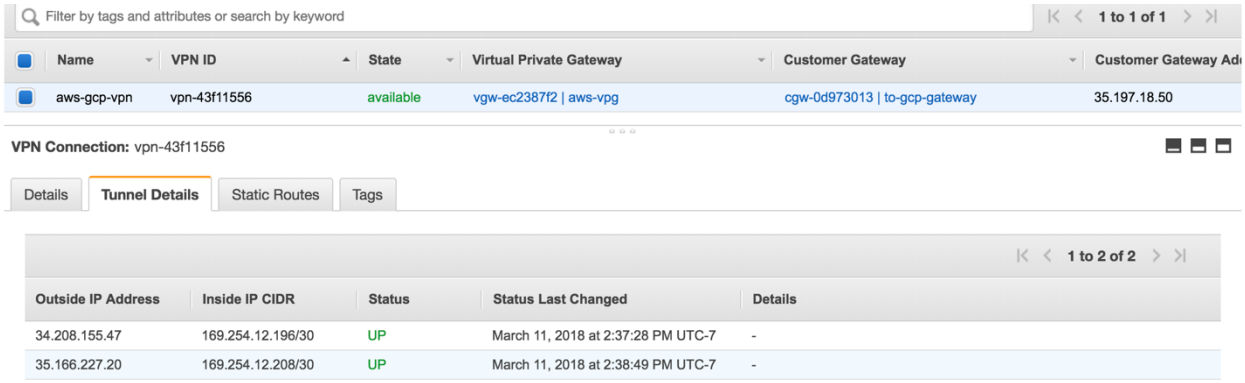
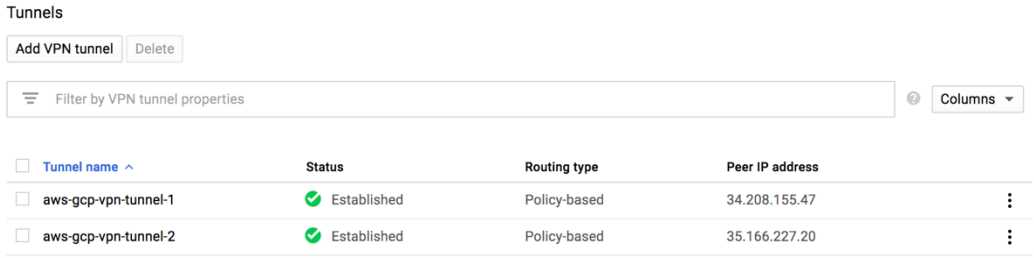
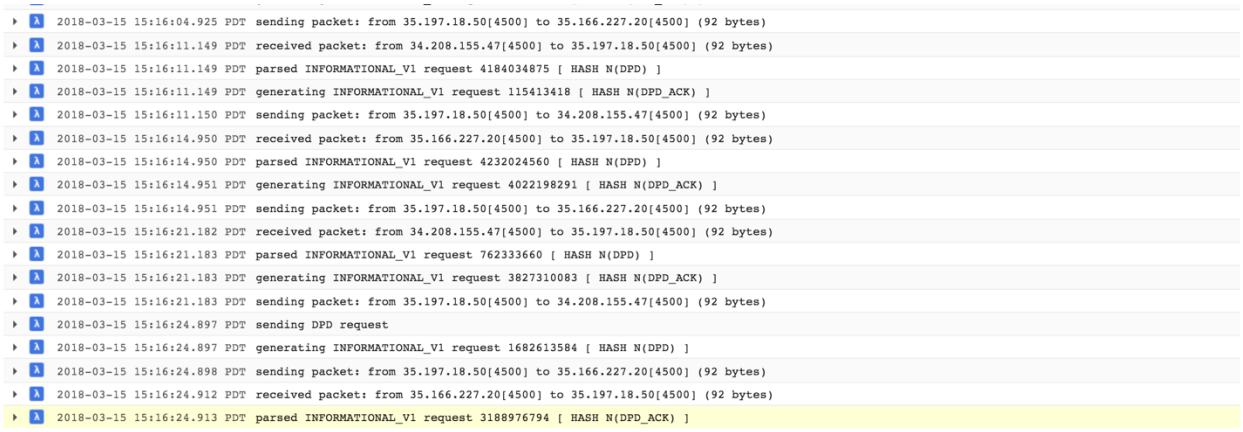
Screenshots

→ Configuring VPN tunnel and testing on GCP and AWS







→ Testing the Vpn tunnel

```
kaizercharania_ck@instance-1:/$ ping 172.31.19.173
PING 172.31.19.173 (172.31.19.173) 56(84) bytes of data.
64 bytes from 172.31.19.173: icmp_seq=1 ttl=64 time=14.4 ms
64 bytes from 172.31.19.173: icmp_seq=2 ttl=64 time=14.3 ms
64 bytes from 172.31.19.173: icmp_seq=3 ttl=64 time=14.3 ms
64 bytes from 172.31.19.173: icmp_seq=4 ttl=64 time=14.4 ms
64 bytes from 172.31.19.173: icmp_seq=5 ttl=64 time=14.4 ms
64 bytes from 172.31.19.173: icmp_seq=6 ttl=64 time=14.4 ms
^C
--- 172.31.19.173 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5008m
rtt min/avg/max/mdev = 14.340/14.428/14.487/0.088 ms
kaizercharania_ck@instance-1:/$
```

```
kaizercharania_ck@instance-1:/$ ping 172.31.16.143
PING 172.31.16.143 (172.31.16.143) 56(84) bytes of data.
64 bytes from 172.31.16.143: icmp_seq=1 ttl=254 time=16.4 ms
64 bytes from 172.31.16.143: icmp_seq=2 ttl=254 time=15.3 ms
64 bytes from 172.31.16.143: icmp_seq=3 ttl=254 time=15.2 ms
64 bytes from 172.31.16.143: icmp_seq=4 ttl=254 time=15.2 ms
^C
--- 172.31.16.143 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 15.206/15.580/16.459/0.526 ms
kaizercharania_ck@instance-1:/$
```

```
ubuntu@ip-172-31-19-173:~$ ping 10.138.0.2
PING 10.138.0.2 (10.138.0.2) 56(84) bytes of data.
64 bytes from 10.138.0.2: icmp_seq=1 ttl=64 time=15.4 ms
64 bytes from 10.138.0.2: icmp_seq=2 ttl=64 time=14.4 ms
64 bytes from 10.138.0.2: icmp_seq=3 ttl=64 time=14.2 ms
64 bytes from 10.138.0.2: icmp_seq=4 ttl=64 time=14.2 ms
^C
--- 10.138.0.2 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 14.244/14.616/15.450/0.496 ms
ubuntu@ip-172-31-19-173:~$
```

```
[ec2-user@ip-172-31-16-143 /]$ ping 10.138.0.2
PING 10.138.0.2 (10.138.0.2) 56(84) bytes of data.
64 bytes from 10.138.0.2: icmp_seq=1 ttl=64 time=15.3 ms
64 bytes from 10.138.0.2: icmp_seq=2 ttl=64 time=14.6 ms
64 bytes from 10.138.0.2: icmp_seq=3 ttl=64 time=14.5 ms
64 bytes from 10.138.0.2: icmp_seq=4 ttl=64 time=14.5 ms
64 bytes from 10.138.0.2: icmp_seq=5 ttl=64 time=14.5 ms
^C
--- 10.138.0.2 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
rtt min/avg/max/mdev = 14.503/14.732/15.394/0.358 ms
[ec2-user@ip-172-31-16-143 /]$
```

→ Load Balancer Registered Instances

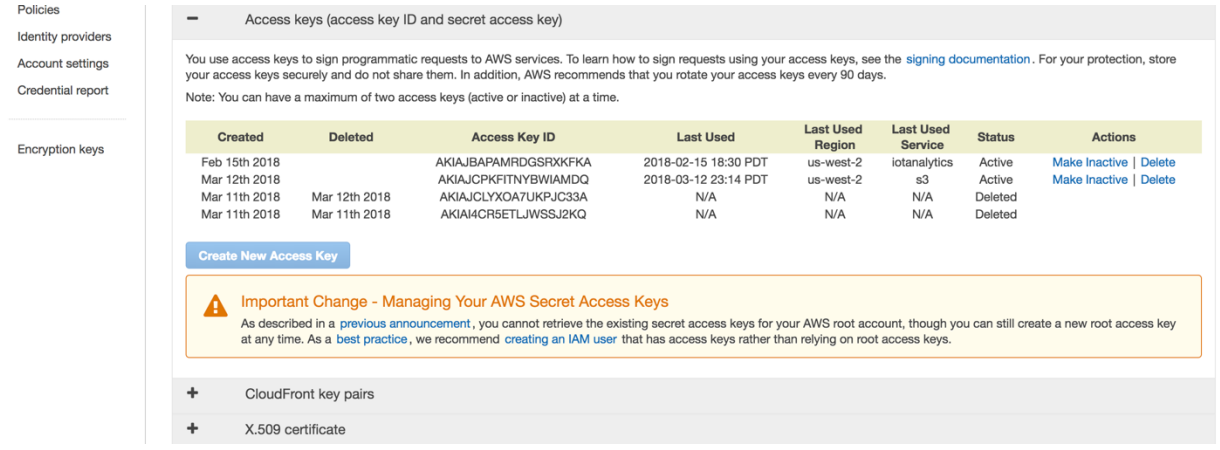
Registered targets

IP address	Port	Availability Zone	Status
10.138.0.2	80	all	healthy
172.31.16.143	80	us-west-2b	healthy
172.31.19.173	80	us-west-2b	healthy

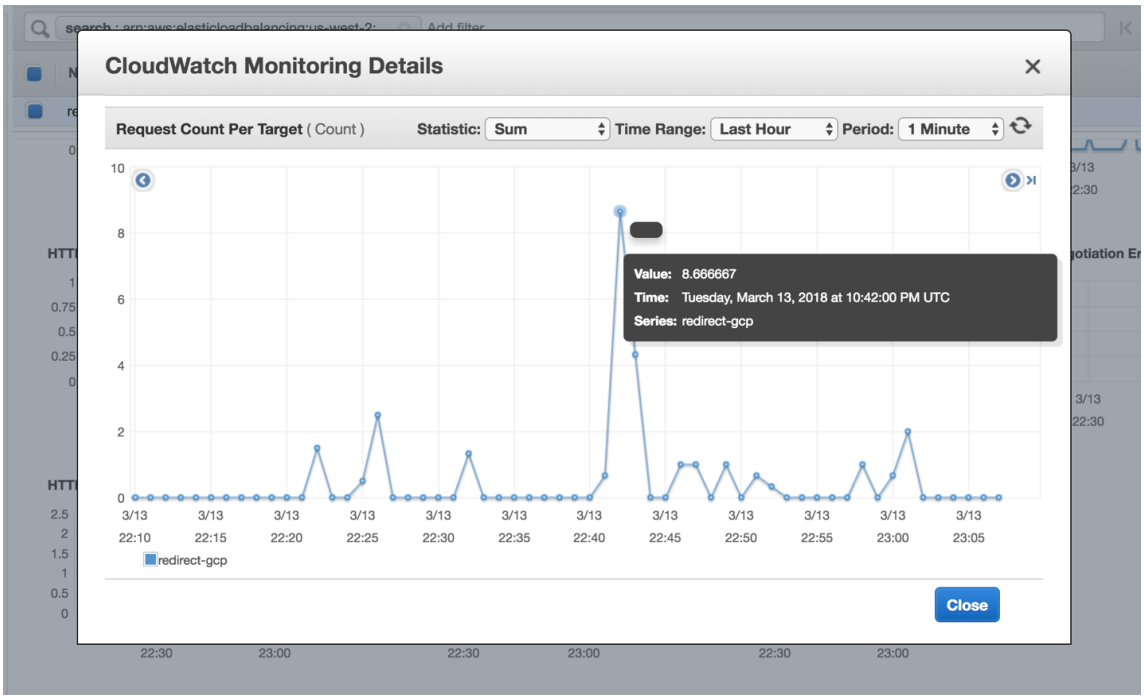
Availability Zones

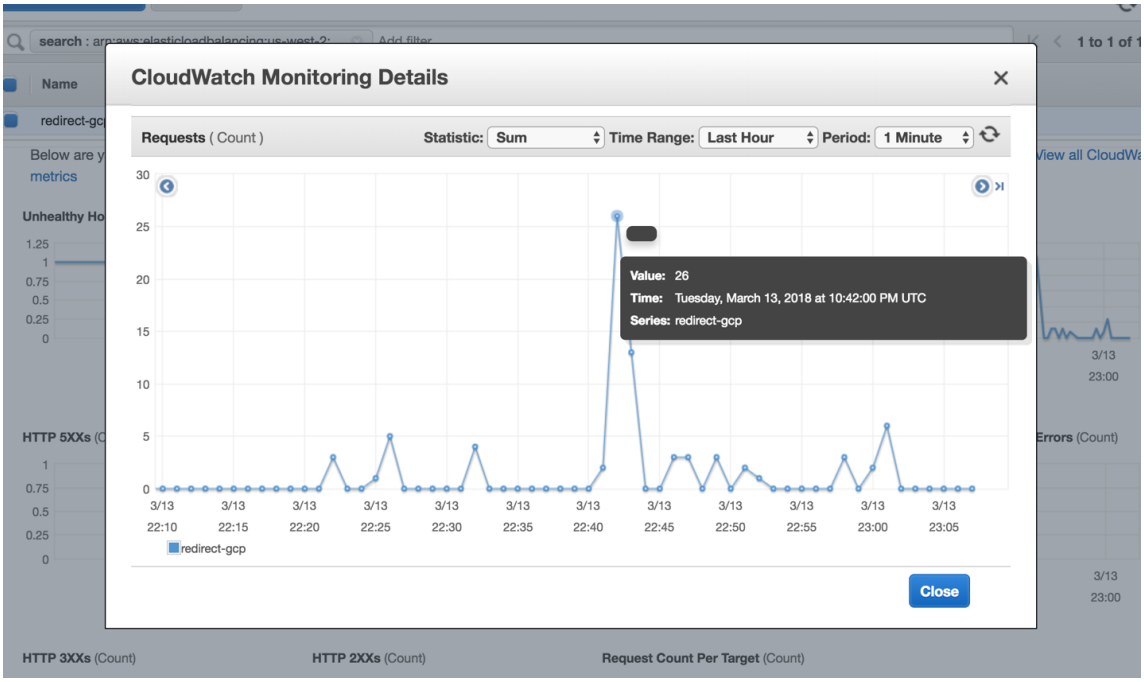
Availability Zone	Target count	Healthy?
us-west-2b	2	Yes
all	1	Yes

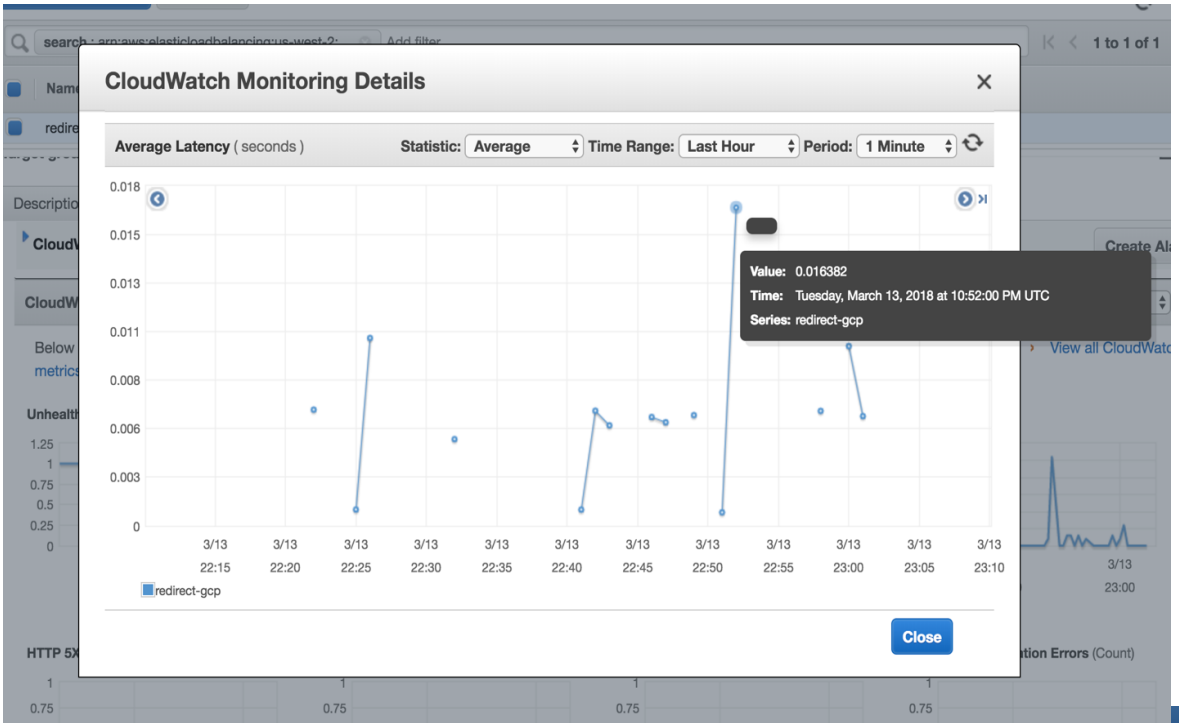
→ Creating Policies for web app and Load Balancer Log files



→ Testing the Load Balancer and Verifying it using Log Files








```
http 2018-03-13T22:32:23.286758Z app/aws-gcp-loadbalancer/b82d0c3b705f3022 129.210.115.112:1182 172.31.19.173:80 0.001 0.001 0.000 200 200 559 1593 "GET http://aws-gcp-loadbalancer-1503451061.us-
west-2.elb.amazonaws.com:80/ HTTP/1.1" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_3) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/64.0.3282.186 Safari/537.36" - - arn:aws:elasticloadbalancing:us-
west-2:629762031643:targetgroup/redirect-gcp/abbd3608f9d976a0 "Root=1-5aa85177-d0cd70bd0c5ee7c381439722" "-" "-" 0
http 2018-03-13T22:32:25.840290Z app/aws-gcp-loadbalancer/b82d0c3b705f3022 129.210.115.112:1182 172.31.16.143:80 0.001 0.001 0.000 200 200 559 3116 "GET http://aws-gcp-loadbalancer-1503451061.us-
west-2.elb.amazonaws.com:80/ HTTP/1.1" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_3) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/64.0.3282.186 Safari/537.36" - - arn:aws:elasticloadbalancing:us-
west-2:629762031643:targetgroup/redirect-gcp/abbd3608f9d976a0 "Root=1-5aa85179-0c37c7111762e8fc5aff9f41" "-" "-" 0
http 2018-03-13T22:32:28.482243Z app/aws-gcp-loadbalancer/b82d0c3b705f3022 129.210.115.112:1182 10.138.0.2:80 0.015 0.015 0.000 200 200 554 1602 "GET http://aws-gcp-loadbalancer-1503451061.us-
west-2.elb.amazonaws.com:80/ HTTP/1.1" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_3) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/64.0.3282.186 Safari/537.36" - - arn:aws:elasticloadbalancing:us-
west-2:629762031643:targetgroup/redirect-gcp/abbd3608f9d976a0 "Root=1-5aa8517c-d3c71b59cc872e32c9efaa61" "-" "-" 0
http 2018-03-13T22:32:48.491323Z app/aws-gcp-loadbalancer/b82d0c3b705f3022 129.210.115.112:1182 172.31.19.173:80 0.001 0.001 0.000 200 200 559 1593 "GET http://aws-gcp-loadbalancer-1503451061.us-
west-2.elb.amazonaws.com:80/ HTTP/1.1" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_3) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/64.0.3282.186 Safari/537.36" - - arn:aws:elasticloadbalancing:us-
west-2:629762031643:targetgroup/redirect-gcp/abbd3608f9d976a0 "Root=1-5aa85190-33b977a9d4ac9e14959b89f0" "-" "-" 0
```