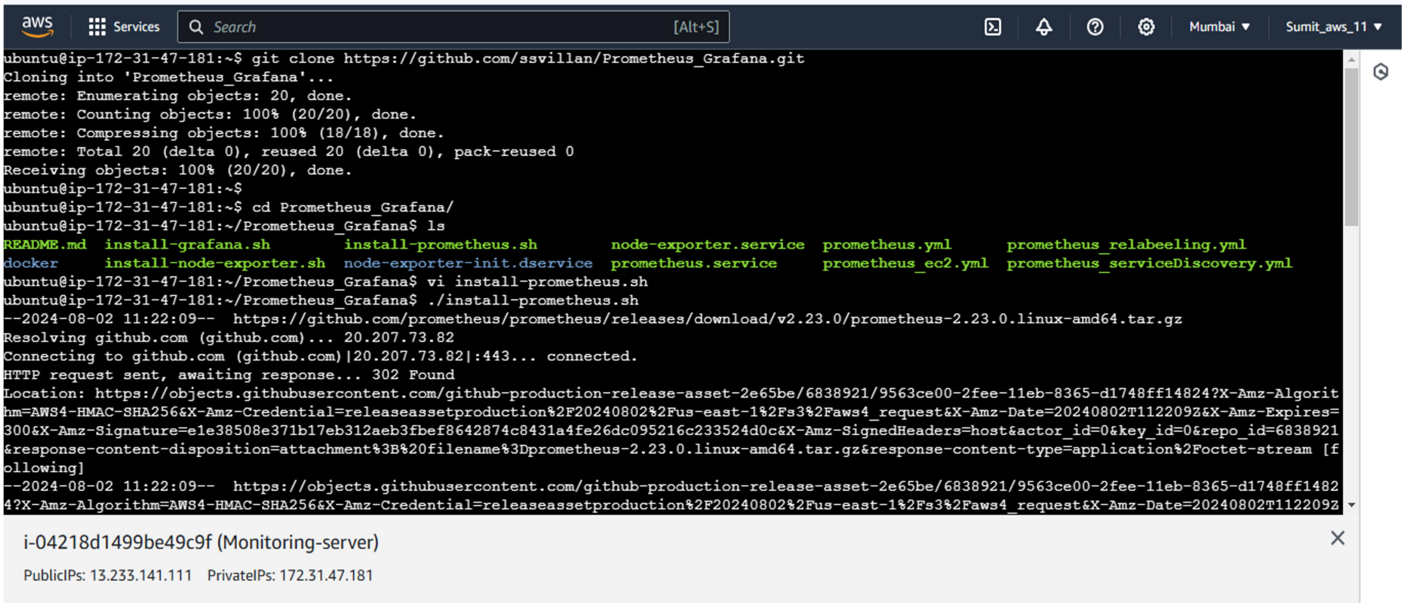
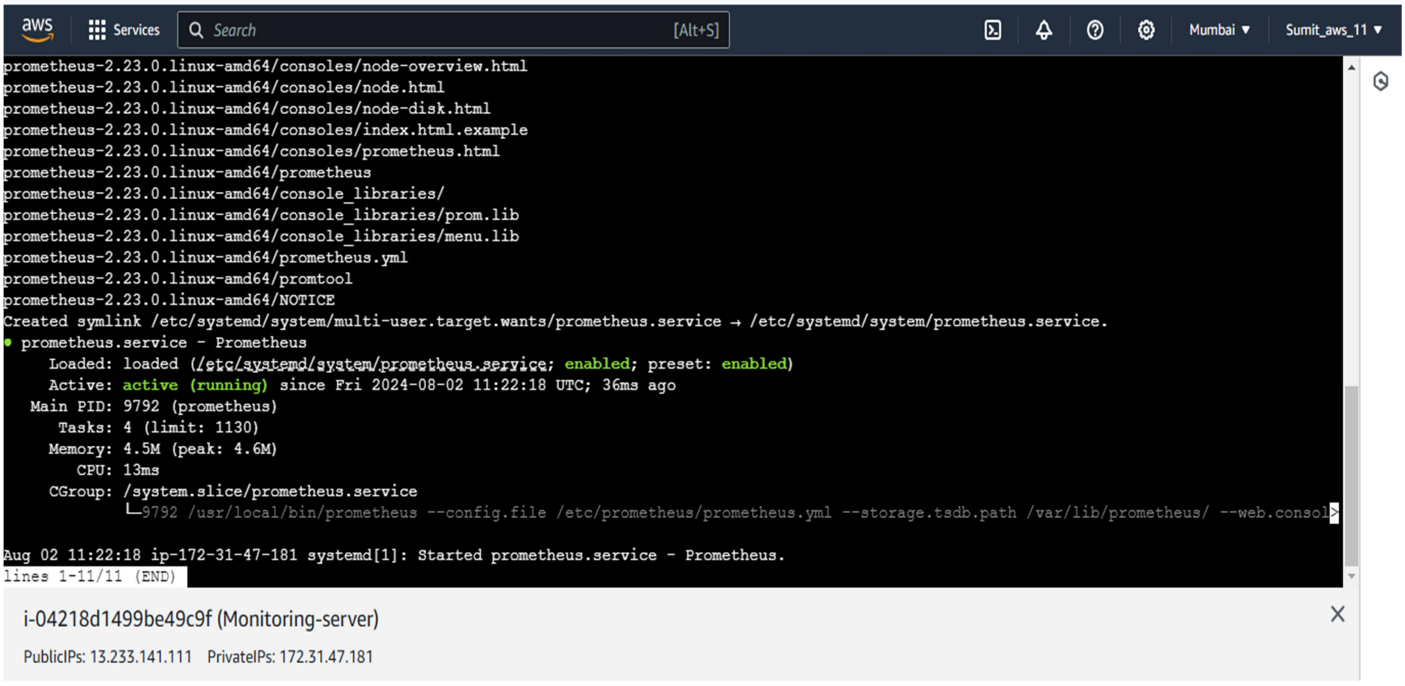
[Guvi Task]

Day 2 - Monitoring Tool -Prometheus & Grafana

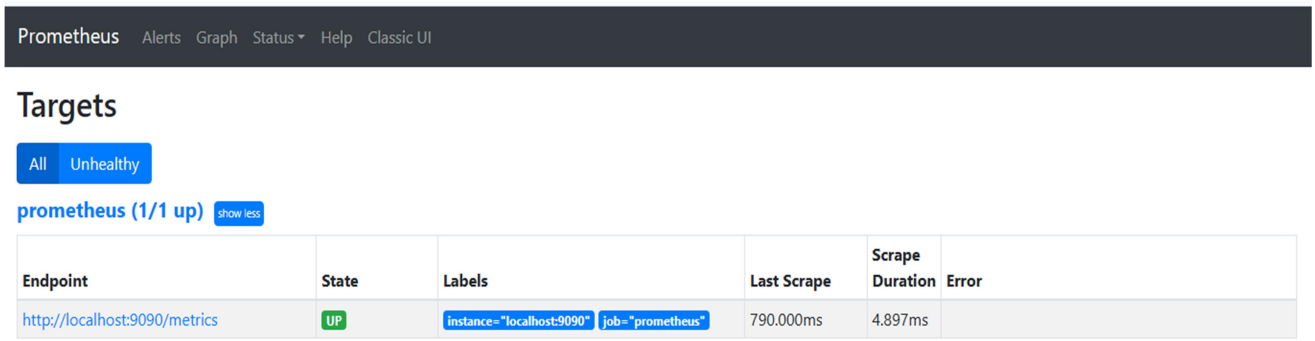
TASK: Install Prometheus and Grafana on a Linux EC2 machine, connect Prometheus to Grafana, and create a dashboard to view metrics.

- **Install Prometheus**

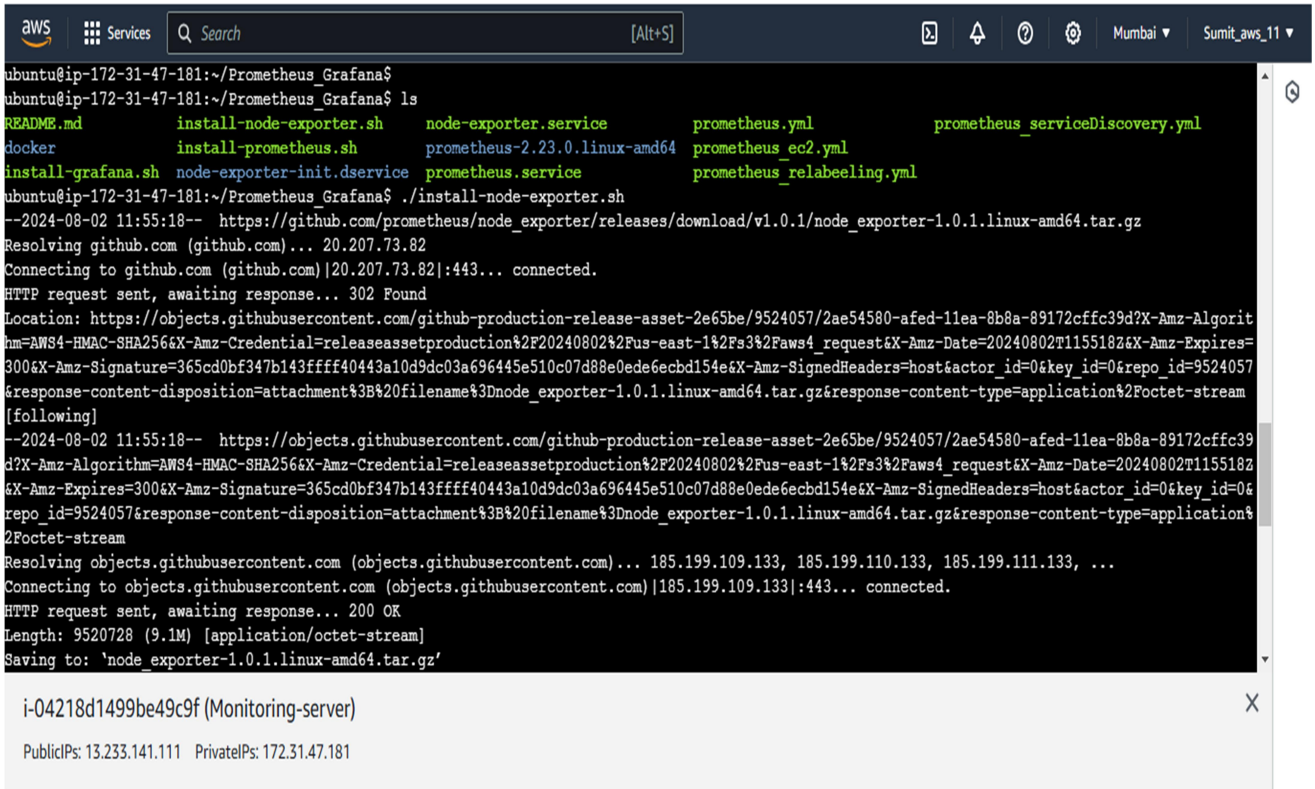


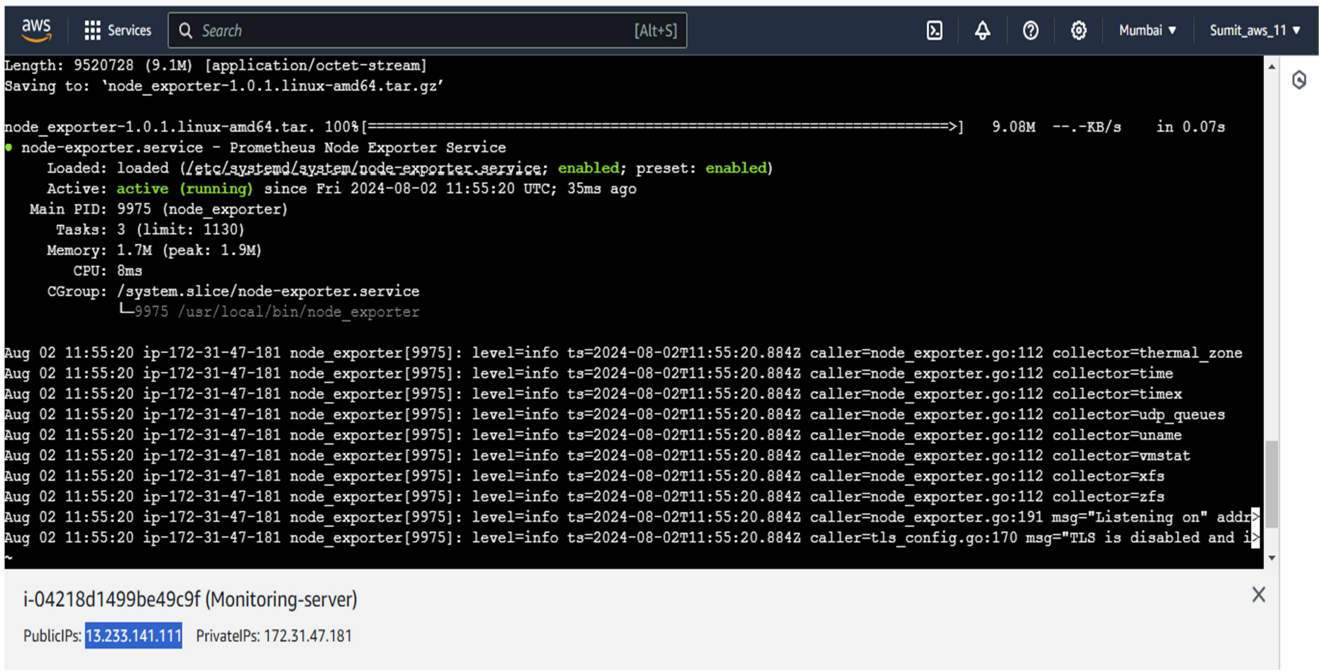


- go to Security Groups and open port Number 9090 for Prometheus page
- Then you take that Local IP id with port Number (13.233.141.111:9090) and open the Prometheus page.



- **Install Node Export**



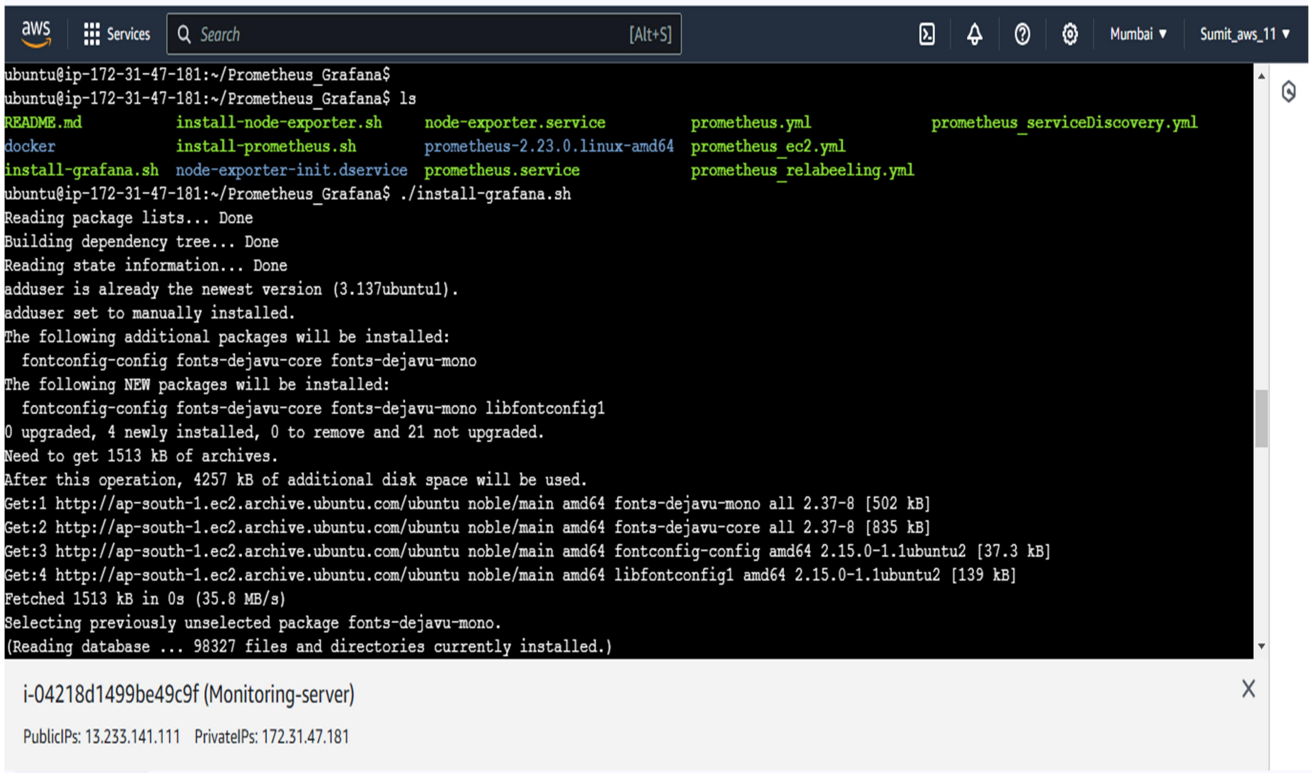


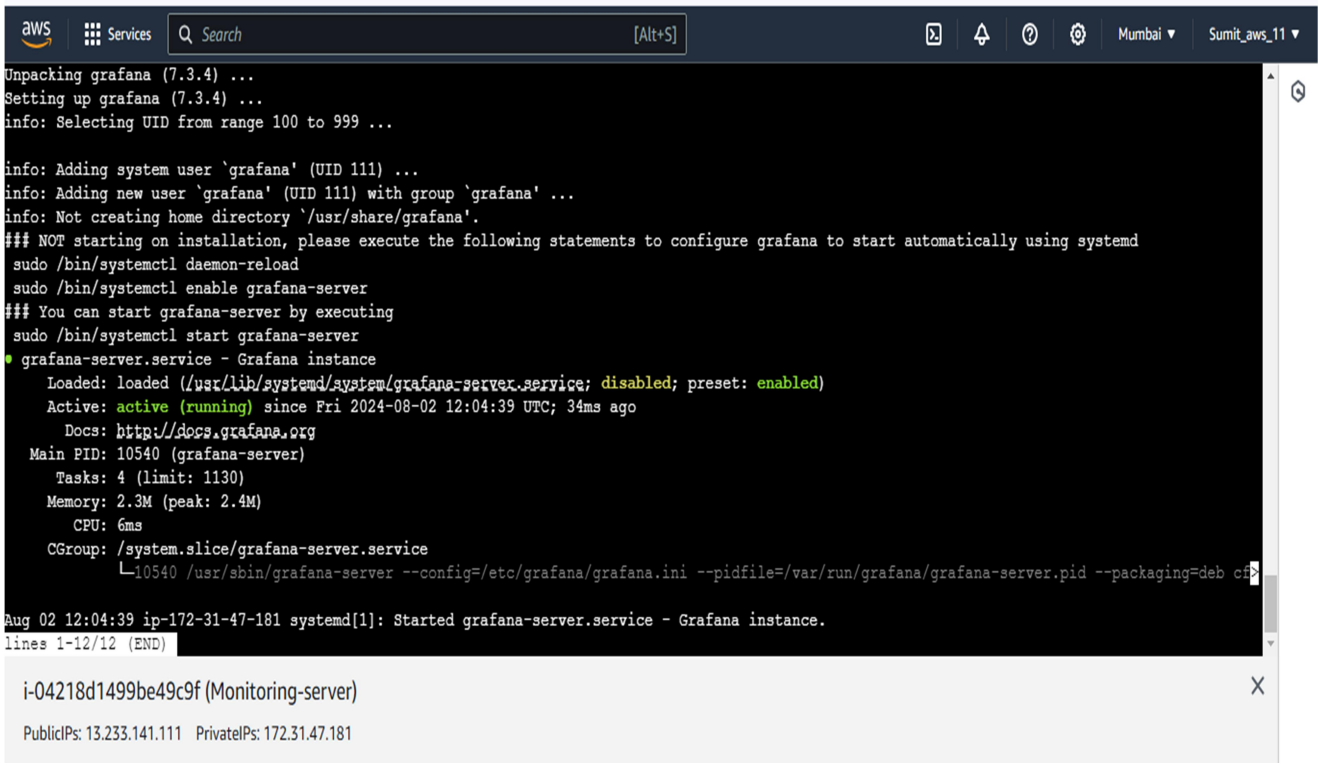
- go to Security Groups and open port Number 9100 for Node Export page
  Then you take that Local IP id with port Number (13.233.141.111:9100) and search

Node Exporter

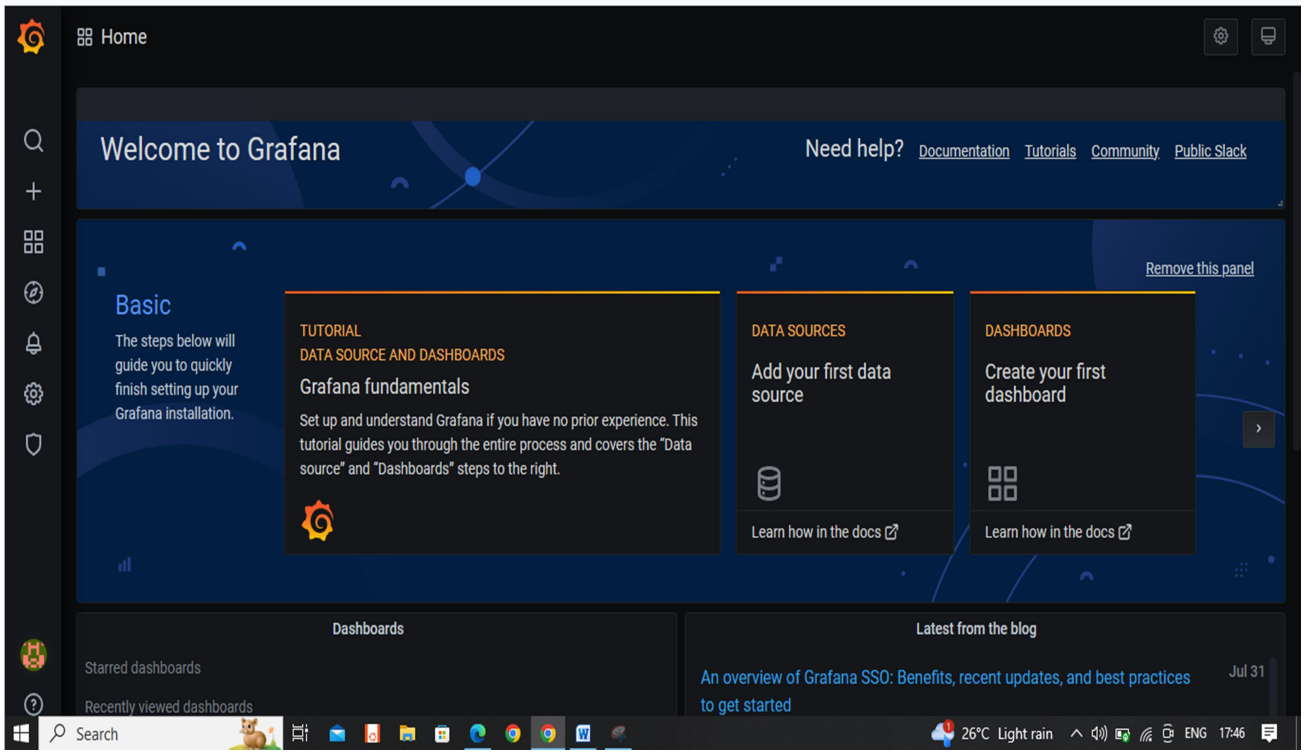
Metrics

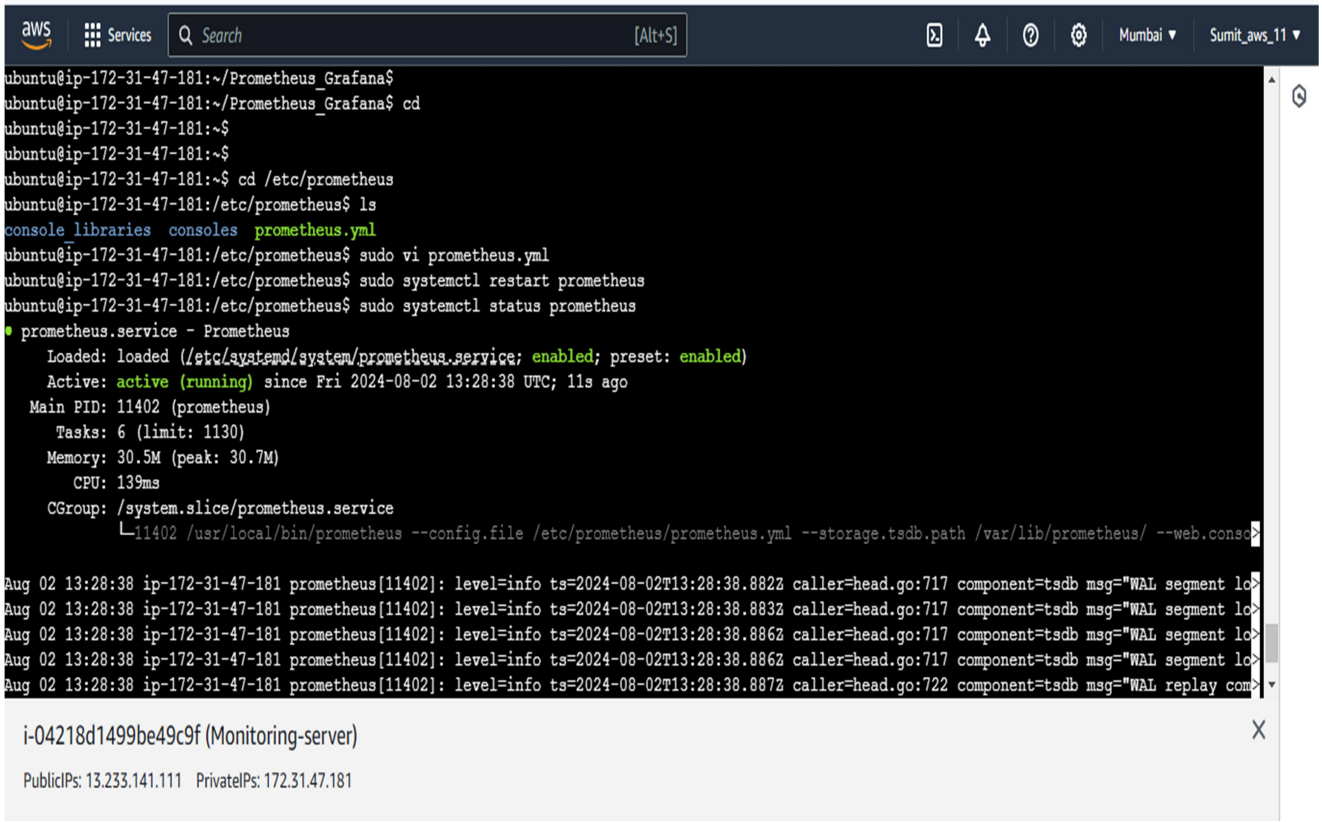
- **Install Grafana**

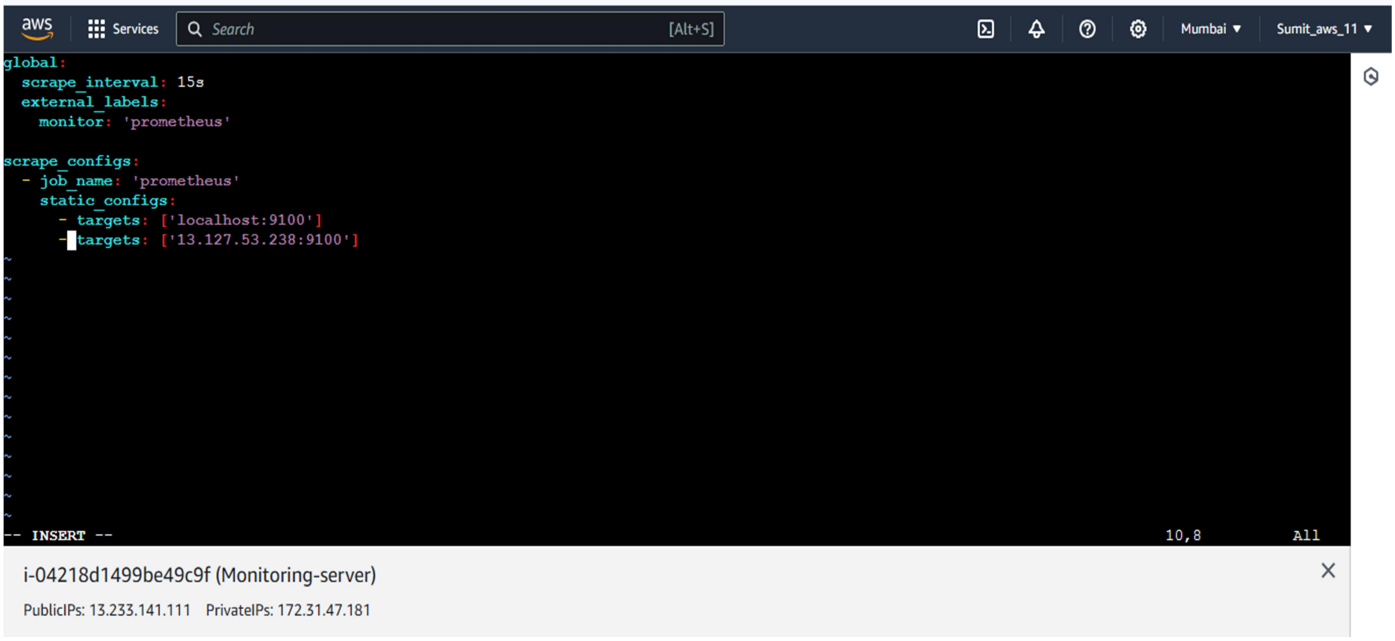




- go to Security Groups and open port Number 3000 for Grafana page
- Then you take that Local IP id with port Number (13.233.141.111:3000) and search








```
# HELP go_gc_duration_seconds A summary of the pause duration of garbage collection cycles.
# TYPE go_gc_duration_seconds summary
go_gc_duration_seconds{quantile="0"} 9.623e-06
go_gc_duration_seconds{quantile="0.25"} 9.929e-06
go_gc_duration_seconds{quantile="0.5"} 1.0319e-05
go_gc_duration_seconds{quantile="0.75"} 1.1104e-05
go_gc_duration_seconds{quantile="1"} 5.9061e-05
go_gc_duration_seconds_sum 0.000520644
go_gc_duration_seconds_count 35
# HELP go_goroutines Number of goroutines that currently exist.
# TYPE go_goroutines gauge
go_goroutines 8
# HELP go_info Information about the Go environment.
# TYPE go_info gauge
go_info{version="go1.14.4"} 1
# HELP go_memstats_alloc_bytes Number of bytes allocated and still in use.
# TYPE go_memstats_alloc_bytes gauge
go_memstats_alloc_bytes 3.341728e+06
# HELP go_memstats_alloc_bytes_total Total number of bytes allocated, even if freed.
# TYPE go_memstats_alloc_bytes_total counter
go_memstats_alloc_bytes_total 8.4610008e+07
# HELP go_memstats_buck_hash_sys_bytes Number of bytes used by the profiling bucket hash table.
# TYPE go_memstats_buck_hash_sys_bytes gauge
go_memstats_buck_hash_sys_bytes 1.470023e+06
# HELP go_memstats_frees_total Total number of frees.
# TYPE go_memstats_frees_total counter
go_memstats_frees_total 888957
# HELP go_memstats_gc_cpu_fraction The fraction of this program's available CPU time used by the GC since the program started.
# TYPE go_memstats_gc_cpu_fraction gauge
go_memstats_gc_cpu_fraction 9.493580540467087e-06
# HELP go_memstats_gc_sys_bytes Number of bytes used for garbage collection system metadata.
# TYPE go_memstats_gc_sys_bytes gauge
go_memstats_gc_sys_bytes 3.574024e+06
# HELP go_memstats_heap_alloc_bytes Number of heap bytes allocated and still in use.
# TYPE go_memstats_heap_alloc_bytes gauge
go_memstats_heap_alloc_bytes 3.341728e+06
# HELP go_memstats_heap_idle_bytes Number of heap bytes waiting to be used.
# TYPE go_memstats_heap_idle_bytes gauge
go_memstats_heap_idle_bytes 6.2660608e+07
```

- Go to the Grafana page and click to the data base or data source inside the data source Prometheus is the inside the Prometheus give URL http://13.233.141.111:9090 and save
- Create the Dashboard click on add on panel click on metric and select node inside the node select node_cpu_sec
- Next click on visualization and select one stat graph and save the dashboard