

## DAY-6 FINAL PROJECT

### JAVA APPLICATION MINIKUBE DEPLOYMENT

Pipeline script :

```
pipeline {
  agent any

  stages {
    stage('SCM') {
      steps {
        git branch: 'main', url: 'https://github.com/Arulmurugans-19/app.git'
      }
    }

    stage('Build') {
      steps {
        sh "mvn clean"
        sh "mvn install"
      }
    }
  }
}
```

```
stage('Build Docker Image') {  
    steps {  
        script {  
            sh '22csr019/devops_dockerhub_1.'  
        }  
    }  
}
```

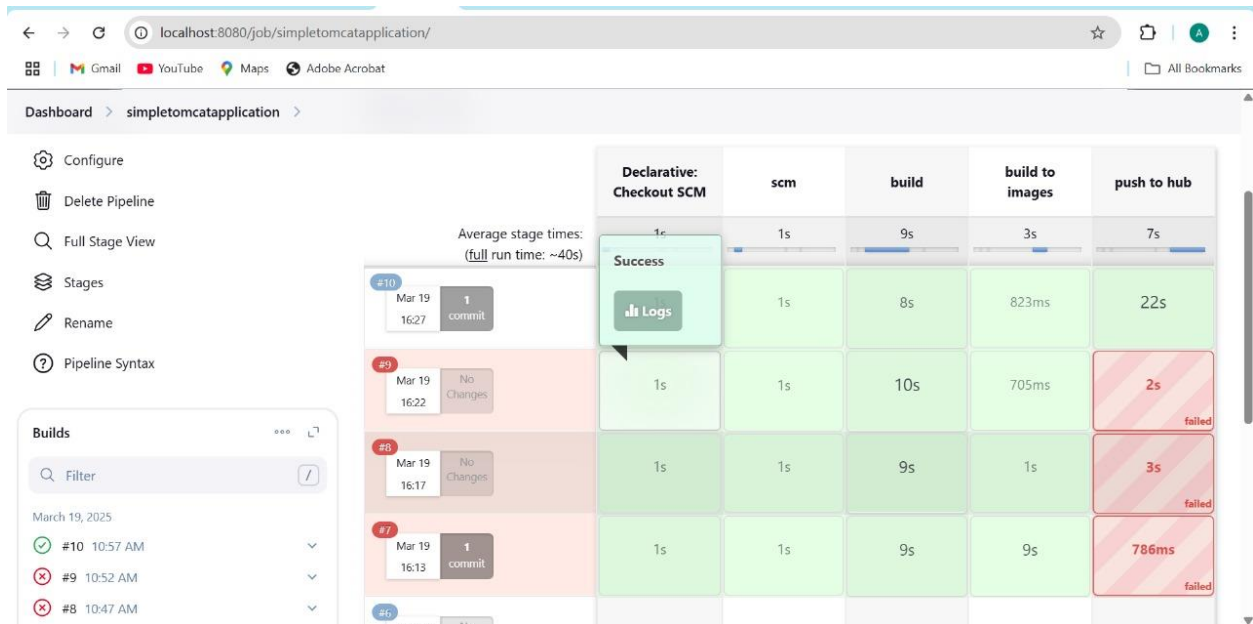
```
stage('Push to Docker Hub') {  
    steps {  
        script {  
            withDockerRegistry(credentialsId: 'Docker_credentials',  
url: 'https://index.docker.io/v1/') {  
                sh '22csr019/devops_dockerhub_1'  
            }  
        }  
    }  
}
```

```
stage('Deploy App') {  
    steps {  
        withKubeConfig(  

```

```
    caCertificate: "",
    clusterName: 'minikube',
    contextName: 'minikube',
    credentialsId: 'myminikube',
    namespace: "",
    restrictKubeConfigAccess: false,
    serverUrl: 'https://192.168.39.226:8443'
  ){
    sh 'sudo apply -f deploy.yaml --validate=false'
  }
}
}
}
```

## Stage View :



```
arulmurugan-19@Arul: ~  
my-deploy-75f9b65756-mzsv4 1/1 Running 0 6m37s  
my-deploy-75f9b65756-zqj98 1/1 Running 0 6m37s  
my-pod 0/1 InvalidImageName 0 8m36s  
my-rs-c4mbz 1/1 Running 0 88s  
my-rs-m2w96 1/1 Running 0 88s  
my-rs-rngt6 1/1 Running 0 88s  
my-rs-wbfs4 1/1 Running 0 88s  
arulmurugan-19@Arul:~$ kubectl get pod -o wide  
NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES  
my-deploy-75f9b65756-7x4w2 1/1 Running 0 6m46s 10.244.0.5 minikube <none> <none>  
my-deploy-75f9b65756-86krf 1/1 Running 0 6m46s 10.244.0.6 minikube <none> <none>  
my-deploy-75f9b65756-gdrxp 1/1 Running 0 6m46s 10.244.0.4 minikube <none> <none>  
my-deploy-75f9b65756-mzsv4 1/1 Running 0 6m46s 10.244.0.8 minikube <none> <none>  
my-deploy-75f9b65756-zqj98 1/1 Running 0 6m46s 10.244.0.7 minikube <none> <none>  
my-pod 0/1 InvalidImageName 0 8m45s 10.244.0.3 minikube <none> <none>  
my-rs-c4mbz 1/1 Running 0 97s 10.244.0.12 minikube <none> <none>  
my-rs-m2w96 1/1 Running 0 97s 10.244.0.9 minikube <none> <none>  
my-rs-rngt6 1/1 Running 0 97s 10.244.0.11 minikube <none> <none>  
my-rs-wbfs4 1/1 Running 0 97s 10.244.0.10 minikube <none> <none>  
arulmurugan-19@Arul:~$ nano deploy.yaml  
arulmurugan-19@Arul:~$ sudo nano deploy.yaml  
arulmurugan-19@Arul:~$ sudo nano re-test.yaml  
arulmurugan-19@Arul:~$ kubectl apply -f deploy.yaml  
deployment.apps/my-deploy configured  
service/my-service unchanged  
arulmurugan-19@Arul:~$ minikube service my-service  
|-----|  
| NAMESPACE | NAME | TARGET PORT | URL |  
|-----|  
| default | my-service | 9000 | http://192.168.49.2:30002 |  
|-----|  
★ Starting tunnel for service my-service.  
|-----|  
| NAMESPACE | NAME | TARGET PORT | URL |  
|-----|  
| default | my-service | | http://127.0.0.1:45085 |  
|-----|  
🔗 Opening service default/my-service in default browser...  
🔗 http://127.0.0.1:45085  
💡 Because you are using a Docker driver on linux, the terminal needs to be open to run it.  
minikube service my-service
```

```
arulmurugan-19@Arul:~$ nano deploy.yaml
arulmurugan-19@Arul:~$ sudo nano deploy.yaml
arulmurugan-19@Arul:~$ sudo nano re-test.yaml
arulmurugan-19@Arul:~$ kubectl apply -f deploy.yaml
deployment.apps/my-deploy configured
service/my-service unchanged
arulmurugan-19@Arul:~$ minikube service my-service
|-----|
| NAMESPACE | NAME | TARGET PORT | URL |
|-----|
| default | my-service | 9080 | http://192.168.49.2:30082 |
|-----|
★ Starting tunnel for service my-service.
|-----|
| NAMESPACE | NAME | TARGET PORT | URL |
|-----|
| default | my-service | | http://127.0.0.1:45085 |
|-----|
🌐 Opening service default/my-service in default browser...
🔗 http://127.0.0.1:45085
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.
minikube service my-service^C Stopping tunnel for service my-service.
arulmurugan-19@Arul:~$ kubectl delete all --all
pod "my-deploy-786f8cf94b-7f6hp" deleted
pod "my-deploy-786f8cf94b-dlm28" deleted
pod "my-deploy-786f8cf94b-s7gdt" deleted
pod "my-deploy-786f8cf94b-vpr6x" deleted
pod "my-deploy-786f8cf94b-xcql" deleted
pod "my-pod" deleted
pod "my-rs-c4mbz" deleted
pod "my-rs-m2w96" deleted
pod "my-rs-rngt6" deleted
pod "my-rs-wbfs4" deleted
service "kubernetes" deleted
service "my-service" deleted
deployment.apps "my-deploy" deleted
replicaset.apps "my-rs" deleted
arulmurugan-19@Arul:~$ sudo useradd \
--system \
--no-create-home \
--shell /bin/false prometheus
```

```
[sudo] password for arulmurugan-19:
arulmurugan-19@Arul:~$ wget https://github.com/prometheus/prometheus/releases/download/v2.47.1/prometheus-2.47.1.linux-amd64.tar.gz
tar -xvf prometheus-2.47.1.linux-amd64.tar.gz
sudo mkdir -p /data /etc/prometheus
cd prometheus-2.47.1.linux-amd64/
sudo mv prometheus promtool /usr/local/bin/
sudo mv consoles/ console Libraries/ /etc/prometheus/
sudo mv prometheus.yml /etc/prometheus/prometheus.yml
sudo chown -R prometheus:prometheus /etc/prometheus/ /data/
--2025-03-22 06:37:47-- https://github.com/prometheus/prometheus/releases/download/v2.47.1/prometheus-2.47.1.linux-amd64.tar.gz
Resolving github.com (github.com)... 20.207.73.82
Connecting to github.com (github.com)[20.207.73.82]:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://objects.githubusercontent.com/github-production-release-asset-2e65be/6838921/2f9b7b37-63a0-428b-adb5-0294482fd743?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20250322%2Fus-east-1%2Faws4_request&X-Amz-Date=20250322T063746Z&X-Amz-Expires=300&X-Amz-Signature=01c09d6fc719494460d839f4f9ae01c7b3d735024a6a113d9b8190bd6b6335066X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3Dprometheus-2.47.1.linux-amd64.tar.gz&response-content-type=application%2Foctet-stream [following]
--2025-03-22 06:37:48-- https://objects.githubusercontent.com/github-production-release-asset-2e65be/6838921/2f9b7b37-63a0-428b-adb5-0294482fd743?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20250322%2Fus-east-1%2Faws4_request&X-Amz-Date=20250322T063746Z&X-Amz-Expires=300&X-Amz-Signature=01c09d6fc719494460d839f4f9ae01c7b3d735024a6a113d9b8190bd6b6335066X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3Dprometheus-2.47.1.linux-amd64.tar.gz&response-content-type=application%2Foctet-stream
Resolving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.110.133, 185.199.109.133, 185.199.111.133, ...
Connecting to objects.githubusercontent.com (objects.githubusercontent.com)[185.199.110.133]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 95713066 (91M) [application/octet-stream]
Saving to: 'prometheus-2.47.1.linux-amd64.tar.gz'

prometheus-2.47.1.linux-amd64.tar.gz 100%[=====] 91.28M 3.42MB/s in 26s

2025-03-22 06:38:13 (3.57 MB/s) - 'prometheus-2.47.1.linux-amd64.tar.gz' saved [95713066/95713066]

prometheus-2.47.1.linux-amd64/
prometheus-2.47.1.linux-amd64/LICENSE
prometheus-2.47.1.linux-amd64/NOTICE
prometheus-2.47.1.linux-amd64/prometheus.yml
prometheus-2.47.1.linux-amd64/consoles/
prometheus-2.47.1.linux-amd64/consoles/prometheus.html
prometheus-2.47.1.linux-amd64/consoles/prometheus-overview.html
prometheus-2.47.1.linux-amd64/consoles/node-cpu.html
prometheus-2.47.1.linux-amd64/consoles/index.html.example
prometheus-2.47.1.linux-amd64/consoles/node.html
```

```

arulmurugan-19@Arul: ~
prometheus-2.47.1-linux-amd64/conssoles/node-disk.html
prometheus-2.47.1-linux-amd64/conssoles/node-overview.html
prometheus-2.47.1-linux-amd64/promtool
prometheus-2.47.1-linux-amd64/console_libraries/
prometheus-2.47.1-linux-amd64/console_libraries/prom.lib
prometheus-2.47.1-linux-amd64/console_libraries/menu.lib
prometheus-2.47.1-linux-amd64/prometheus
arulmurugan-19@Arul:~/prometheus-2.47.1-linux-amd64$ cd
rm -rf prometheus-2.47.1-linux-amd64.tar.gz
prometheus --version
prometheus, version 2.47.1 (branch: HEAD, revision: c4d1a8beff37cc084f1dc4ab9d2e73193f51aaeb)
  build user: root@4829330363be
  build date: 20231004-10:31:16
  go version: go1.21.1
  platform: linux/amd64
tags:
  netgo, builtinassets, stringlabels
arulmurugan-19@Arul:~$ sudo vim /etc/systemd/system/prometheus.service
arulmurugan-19@Arul:~$ sudo systemctl enable prometheus
sudo systemctl start prometheus
sudo systemctl status prometheus
journalctl -u prometheus -f --no-pager
Created symlink /etc/systemd/system/multi-user.target.wants/prometheus.service → /etc/systemd/system/prometheus.service.
● prometheus.service - Prometheus
   Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: enabled)
   Active: active (running) since Sat 2025-03-22 06:41:58 UTC; 717ms ago
   Main PID: 31719 (prometheus)
   Tasks: 11 (limit: 4615)
   Memory: 15.5M (0)
   CGroup: /system.slice/prometheus.service
           └─31719 /usr/local/bin/prometheus --config.file=/etc/prometheus/prometheus.yml --storage.tsdb.path=/data --web.console.templates=/etc/prometheu
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.512Z caller=head.go:681 level=info component=tsdb msg="On-disk memory mappable chunks replay"
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.512Z caller=head.go:689 level=info component=tsdb msg="Replaying WAL, this may take a while"
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.513Z caller=head.go:760 level=info component=tsdb msg="WAL segment loaded" segment=0 maxSeg=
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.513Z caller=head.go:797 level=info component=tsdb msg="WAL replay completed" checkpoint_repla
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.521Z caller=main.go:1045 level=info fs.type=EXT4_SUPER_MAGIC
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.521Z caller=main.go:1048 level=info msg="TSDB started"
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.521Z caller=main.go:1229 level=info msg="Loading configuration file" filename=/etc/prometheu
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.522Z caller=main.go:1266 level=info msg="Completed loading of configuration file" filename=/e
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.522Z caller=main.go:1009 level=info msg="Server is ready to receive web requests."
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.522Z caller=manager.go:1009 level=info component="rule manager" msg="Starting rule manager."

```

```

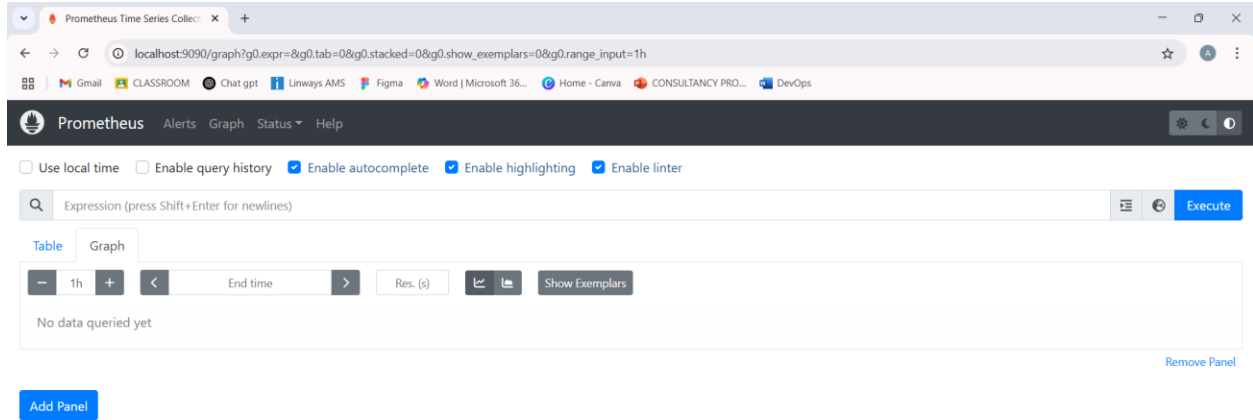
arulmurugan-19@Arul: ~
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.522Z caller=manager.go:1089 level=info component="rule manager" msg="Starting rule manager."
lines 1-19/19 (END)
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.512Z caller=head.go:681 level=info component=tsdb msg="On-disk memory mappable chunks replay
completed" durations=5.123µs
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.512Z caller=head.go:689 level=info component=tsdb msg="Replaying WAL, this may take a while"
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.513Z caller=head.go:760 level=info component=tsdb msg="WAL segment loaded" segment=0 maxSegme
nt=8
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.513Z caller=head.go:797 level=info component=tsdb msg="WAL replay completed" checkpoint_repla
y_duration=40.977µs wal_replay_duration=891.736µs wbl_replay_duration=299ns total_replay_duration=977.557µs
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.521Z caller=main.go:1045 level=info fs_type=EXT4_SUPER_MAGIC
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.521Z caller=main.go:1048 level=info msg="TSDB started"
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.521Z caller=main.go:1229 level=info msg="Loading configuration file" filename=/etc/prometheus
/prometheus.yml
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.522Z caller=main.go:1266 level=info msg="Completed loading of configuration file" filename=/e
tc/prometheus/prometheus.yml totalDuration=938.776µs db_storage=2.083µs remote_storage=2.974µs web_handler=838ns query_engine=1.226µs scrape=444.041µs scrap
e_sd=43.828µs notify=55.401µs notify_sd=12.545µs rules=2.138µs tracing=29.289µs
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.522Z caller=main.go:1089 level=info msg="Server is ready to receive web requests."
Mar 22 06:41:59 Arul prometheus[31719]: ts=2025-03-22T06:41:59.522Z caller=manager.go:1089 level=info component="rule manager" msg="Starting rule manager..."
"
^C
arulmurugan-19@Arul:~$ sudo useradd \
--system \
--no-create-home \
--shell /bin/false node_exporter
arulmurugan-19@Arul:~$ wget https://github.com/prometheus/node_exporter/releases/download/v1.6.1/node_exporter-1.6.1.linux-amd64.tar.gz
tar -xvf node_exporter-1.6.1.linux-amd64.tar.gz
--2025-03-22 06:44:22-- https://github.com/prometheus/node_exporter/releases/download/v1.6.1/node_exporter-1.6.1.linux-amd64.tar.gz
Resolving github.com (github.com)... 20.207.73.82
Connecting to github.com (github.com)|20.207.73.82|:443... connected.
HTTP request sent, awaiting response... 202 OK
Location: https://objects.githubusercontent.com/github-production-release-asset-2656be/9524057/5509b569-5c34-471e-8598-c05c0733bb7f?X-Amz-Algorithm=AWS4-HMAC
-SHA256&X-Amz-Credential=releaseassetproduction%2F20250322%2Fus-east-1%2F3%2Faws%40request%2F-X-Amz-Date=20250322T064215Z&X-Amz-Expires=300&X-Amz-Signature=6
7294c67dd9efbed2866f75ba9f49f7fbb4081c3194a4b7386f94b1c405256&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3Dnode_exporte
r-1.6.1.linux-amd64.tar.gz&response-content-type=application%2Foctet-stream [following]
--2025-03-22 06:44:23-- https://objects.githubusercontent.com/github-production-release-asset-2656be/9524057/5509b569-5c34-471e-8598-c05c0733bb7f?X-Amz-Alg
orithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20250322%2Fus-east-1%2F3%2Faws%40request%2F-X-Amz-Date=20250322T064215Z&X-Amz-Expires=300&X-A
mz-Signature=67294c67dd9efbed2866f75ba9f49f7fbb4081c3194a4b7386f94b1c405256&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename
%3Dnode_exporter-1.6.1.linux-amd64.tar.gz&response-content-type=application%2Foctet-stream
Resolving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.108.133, 185.199.110.133, 185.199.109.133, ...
Connecting to objects.githubusercontent.com (objects.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK

```

```
arulmurugan-19@Arul: ~  
HTTP request sent, awaiting response... 200 OK  
Length: 10368103 (9.9M) [application/octet-stream]  
Saving to: 'node_exporter-1.6.1.linux-amd64.tar.gz'  
  
node_exporter-1.6.1.linux-amd64.tar.gz 100%[=====] 9.89M 2.08MB/s in 5.4s  
  
2025-03-22 06:44:30 (1.82 MB/s) - 'node_exporter-1.6.1.linux-amd64.tar.gz' saved [10368103/10368103]  
  
node_exporter-1.6.1.linux-amd64/  
node_exporter-1.6.1.linux-amd64/NOTICE  
node_exporter-1.6.1.linux-amd64/node_exporter  
node_exporter-1.6.1.linux-amd64/LICENSE  
arulmurugan-19@Arul:~$ sudo mv \  
node_exporter-1.6.1.linux-amd64/node_exporter \  
/usr/local/bin/  
arulmurugan-19@Arul:~$ rm -rf node_exporter*  
arulmurugan-19@Arul:~$ node_exporter --version  
node_exporter, version 1.6.1 (branch: HEAD, revision: 4a1b77608c1873a8233f3ffb55afcedbb63b8d84)  
build user: root@586879db11e5  
build date: 20230717-12:10:52  
go version: go1.20.6  
platform: linux/amd64  
tags: netgo osusergo static_build  
arulmurugan-19@Arul:~$ sudo vim /etc/systemd/system/node_exporter.service  
arulmurugan-19@Arul:~$ sudo systemctl enable node_exporter  
sudo systemctl start node_exporter  
sudo systemctl status node_exporter  
journalctl -u node_exporter -f --no-pager  
Created symlink /etc/systemd/system/multi-user.target.wants/node_exporter.service → /etc/systemd/system/node_exporter.service.  
● node_exporter.service - Node Exporter  
Loaded: loaded (/etc/systemd/system/node_exporter.service; enabled; preset: enabled)  
Active: active (running) since Sat 2025-03-22 06:45:53 UTC; 25ms ago  
Main PID: 32747 (node_exporter)  
Tasks: 5 (limit: 4615)  
Memory: 2.9M ()  
CGroup: /system.slice/node_exporter.service  
└─32747 /usr/local/bin/node_exporter --collector.logind  
  
Mar 22 06:45:53 Arul node_exporter[32747]: ts=2025-03-22T06:45:53.805Z caller=node_exporter.go:117 level=info collector=thermal_zone  
Mar 22 06:45:53 Arul node_exporter[32747]: ts=2025-03-22T06:45:53.805Z caller=node_exporter.go:117 level=info collector=time  
Mar 22 06:45:53 Arul node_exporter[32747]: ts=2025-03-22T06:45:53.805Z caller=node_exporter.go:117 level=info collector=timex
```

```
arulmurugan-19@Arul: ~  
Mar 22 06:45:53 Arul node_exporter[32747]: ts=2025-03-22T06:45:53.805Z caller=node_exporter.go:117 level=info collector=time  
Mar 22 06:45:53 Arul node_exporter[32747]: ts=2025-03-22T06:45:53.805Z caller=node_exporter.go:117 level=info collector=timex  
Mar 22 06:45:53 Arul node_exporter[32747]: ts=2025-03-22T06:45:53.805Z caller=node_exporter.go:117 level=info collector=udp_queues  
Mar 22 06:45:53 Arul node_exporter[32747]: ts=2025-03-22T06:45:53.805Z caller=node_exporter.go:117 level=info collector=uname  
Mar 22 06:45:53 Arul node_exporter[32747]: ts=2025-03-22T06:45:53.806Z caller=node_exporter.go:117 level=info collector=vmstat  
Mar 22 06:45:53 Arul node_exporter[32747]: ts=2025-03-22T06:45:53.806Z caller=node_exporter.go:117 level=info collector=xfs  
Mar 22 06:45:53 Arul node_exporter[32747]: ts=2025-03-22T06:45:53.806Z caller=node_exporter.go:117 level=info collector=zfs  
Mar 22 06:45:53 Arul node_exporter[32747]: ts=2025-03-22T06:45:53.807Z caller=tls_config.go:274 level=info msg="Listening on" address=[::]:9100  
Mar 22 06:45:53 Arul node_exporter[32747]: ts=2025-03-22T06:45:53.807Z caller=tls_config.go:277 level=info msg="TLS is disabled." http2=false address=[::]:9100  
100  
^C  
arulmurugan-19@Arul:~$ sudo vim /etc/prometheus/prometheus.yml  
arulmurugan-19@Arul:~$ promtool check config /etc/prometheus/prometheus.yml  
Checking /etc/prometheus/prometheus.yml  
FAILED: parsing YAML file /etc/prometheus/prometheus.yml: yaml: line 29: did not find expected key  
  
arulmurugan-19@Arul:~$ sudo vim /etc/prometheus/prometheus.yml  
arulmurugan-19@Arul:~$ sudo systemctl restart prometheus  
sudo systemctl status prometheus  
● prometheus.service - Prometheus  
Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: enabled)  
Active: active (running) since Sat 2025-03-22 06:58:56 UTC; 158ms ago  
Main PID: 35653 (prometheus)  
Tasks: 1 (limit: 4615)  
Memory: 128.0K ()  
CGroup: /system.slice/prometheus.service  
└─35653 /usr/local/bin/prometheus --config.file=/etc/prometheus/prometheus.yml --storage.tsdb.path=/data --web.console.templates=/etc/promethe  
  
Mar 22 06:58:56 Arul systemd[1]: Started prometheus.service - Prometheus.  
[lines 1-10/10 (END)]
```





```
kubectll port-forward svc/my-service 9000:9000
```

```
sudo useradd \
```

```
--system \
```

```
--no-create-home \  
--shell /bin/false prometheus
```

```
wget  
https://github.com/prometheus/prometheus/releases/download/v2.47.1/prometheus-  
2.47.1.linux-amd64.tar.gz  
  
tar -xvf prometheus-2.47.1.linux-amd64.tar.gz  
  
sudo mkdir -p /data /etc/prometheus  
  
cd prometheus-2.47.1.linux-amd64/  
  
sudo mv prometheus promtool /usr/local/bin/  
  
sudo mv consoles/ console_libraries/ /etc/prometheus/  
  
sudo mv prometheus.yml /etc/prometheus/prometheus.yml  
  
sudo chown -R prometheus:prometheus /etc/prometheus/ /data/  
  
  
cd  
  
rm -rf prometheus-2.47.1.linux-amd64.tar.gz  
  
prometheus --version  
  
sudo vim /etc/systemd/system/prometheus.service
```

[Unit]

Description=Prometheus

Wants=network-online.target

After=network-online.target

StartLimitIntervalSec=500

StartLimitBurst=5

### [Service]

User=prometheus

Group=prometheus

Type=simple

Restart=on-failure

RestartSec=5s

ExecStart=/usr/local/bin/prometheus \

--config.file=/etc/prometheus/prometheus.yml \

--storage.tsdb.path=/data \

--web.console.templates=/etc/prometheus/consoles \

--web.console.libraries=/etc/prometheus/console\_libraries \

--web.listen-address=0.0.0.0:9090 \

--web.enable-lifecycle

### [Install]

WantedBy=multi-user.target

sudo systemctl enable node\_exporter

sudo systemctl start node\_exporter

sudo systemctl status node\_exporter

journalctl -u node\_exporter -f --no-pager

sudo vim /etc/prometheus/prometheus.yml

promtool check config /etc/prometheus/prometheus.yml

```
sudo vim /etc/prometheus/prometheus.yml
```

```
rule_files:
```

```
scrape_configs:
```

```
  job_name: "prometheus" static_configs:
```

```
    targets: ["localhost:9090"]
```

```
  job_name: "node_exporter" static_configs:
```

```
    targets: ["localhost:9100"]
```

```
  job_name: "jenkins" metrics_path: "/prometheus" static_configs:
```

```
    targets: [":8080"]
```

```
sudo systemctl restart prometheus
```

```
sudo systemctl status prometheus
```