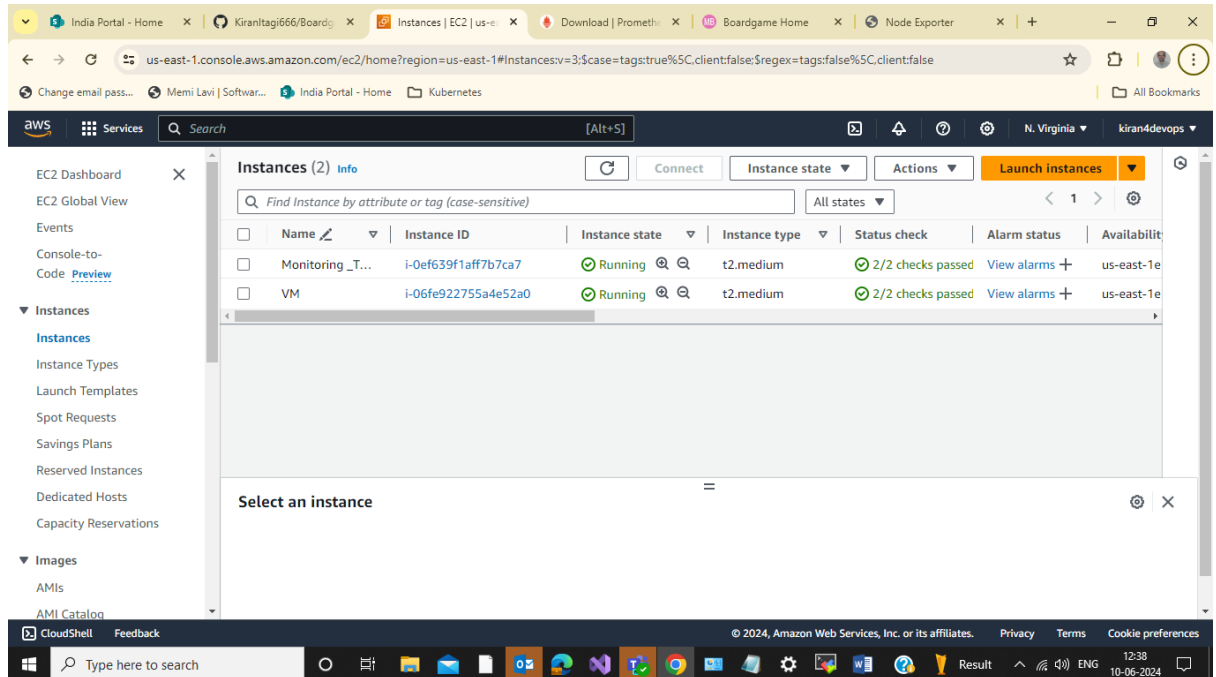
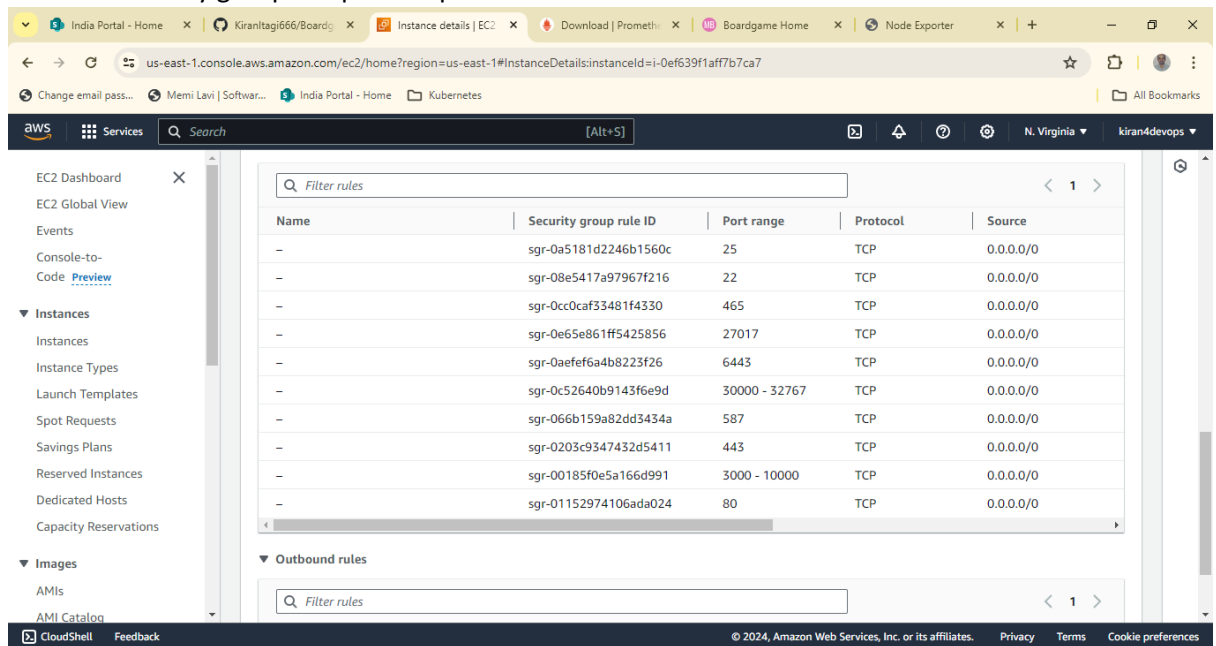



## 1. Set up two Virtual Machines



## 2. Create a Security group to open the ports



## 3. On one VM download the tools i. Prometheus ii. Blackbox exporter iii. Alert-Manager from <https://prometheus.io/download/>



prometheus

2.53.0-rc.0 / 2024-06-06

Pre-release

Release notes


File name	OS	Arch	Size	SHA256 Checksum
<a href="#">prometheus-2.53.0-rc.0.darwin-amd64.tar.gz</a>	darwin	amd64	99.82 MiB	54134f66a3bf6b5441efadac880973720f427821ee3bed788aa9460594a501
<a href="#">prometheus-2.53.0-rc.0.linux-amd64.tar.gz</a>	linux	amd64	99.37 MiB	1870b982081cf895599752eb7d5f64bc3bae2fc16ab39c30107cf7a6d6d2161
<a href="#">prometheus-2.53.0-rc.0.windows-amd64.zip</a>	windows	amd64	101.63 MiB	e62935983e5c8535fd343d52143c4241da7ecbcb8a6b3a9ae95850229f07888

2.52.0 / 2024-05-07

Release notes

File name	OS	Arch	Size	SHA256 Checksum
<a href="#">prometheus-2.52.0.darwin-amd64.tar.gz</a>	darwin	amd64	100.34 MiB	6c5c95d6670d7ade127004dcedebdac331309b16964e325211c6f1a25c1f1826
<a href="#">prometheus-2.52.0.linux-amd64.tar.gz</a>	linux	amd64	99.81 MiB	7f313c86474bbff3e514e627e0b7a7fbdbd5cea3f315fd0b76cad58cd1ba31
<a href="#">prometheus-2.52.0.windows-amd64.zip</a>	windows	amd64	102.02 MiB	9306f4c0a2f47a108e076976b9a001117082007c7c540408048a7e61c77f2e64b3

India Portal - Home | Kiranitag166/Board | Instance details | EC2 | Download | Prometheus | MB | Boardgame Home | Node Exporter | prometheus.io/download/ | Change email pass... | Memi Lavi | Software... | India Portal - Home | Kubernetes | All Bookmarks

Prometheus Alertmanager  [prometheus/alertmanager](https://github.com/prometheus/alertmanager)

## blackbox\_exporter

<b>0.25.0 / 2024-04-09</b> <a href="#">Release notes</a>				
File name	OS	Arch	Size	SHA256 Checksum
<a href="#">blackbox_exporter-0.25.0.darwin-amd64.tar.gz</a>	darwin	amd64	10.70 MiB	279a31e2257940da08b0db856fa3f7a6958c82810313864828eb9e9359
<a href="#">blackbox_exporter-0.25.0.linux-amd64.tar.gz</a>	linux	amd64	10.75 MiB	c053c0e6485c5ebc0292a480af47ae9b3f431f16c7b0b89ba7bc03187f18164668
<a href="#">blackbox_exporter-0.25.0.windows-amd64.zip</a>	windows	amd64	11.02 MiB	0d72779a6764f4e0dc5854808b2284c59e7557d2c3695744a261087b39987a995

Install them in machine named Monitoring\_Tools

#### 4. On another machine name VM download and install the node exporter

The screenshot shows the Prometheus.io download page. It lists download links for mysql\_exporter, node\_exporter, and promlens. The node\_exporter section is highlighted.

File name	OS	Arch	Size	SHA256 Checksum
mysql_exporter-0.15.1.darwin-amd64.tar.gz	darwin	amd64	7.77 MIB	b278a988be7c3e273277198280540844f5368725dc8acc051f8882a3f39f7f9
mysql_exporter-0.15.1.linux-amd64.tar.gz	linux	amd64	7.90 MIB	85ee53cc08e109f466c1d9f8f816652a1218071d42245e8128876265e89ae29d
mysql_exporter-0.15.1.windows-amd64.zip	windows	amd64	8.18 MIB	556a0f78838378b4631a059c8b4375e4296472a3af68366217c979f68b0c0f5c4de

**node\_exporter**  
Exporter for machine metrics [prometheus/node\\_exporter](#)

File name	OS	Arch	Size	SHA256 Checksum
node_exporter-1.8.1.darwin-amd64.tar.gz	darwin	amd64	4.83 MIB	21732bc4ba4833f18af3a50f624a1349a105984ef889d5209442ef914236387a8
node_exporter-1.8.1.linux-amd64.tar.gz	linux	amd64	10.18 MIB	fbadb376af7c1883f87f78795788a8a208f7f645412532cc1938a24a41878811

**promlens**  
PromLens – The query builder, analyzer, and explainer for PromQL [prometheus/promlens](#)

File name	OS	Arch	Size	SHA256 Checksum
promlens-0.3.0.darwin-amd64.tar.gz	darwin	amd64	16.90 MIB	a9d9e174d57f6decf94456db2a71610e3d49f72c48bdc132855497c89f462382db

Verify by copying the public ip:9100

The screenshot shows the Node Exporter web interface. It displays the version information and a link to the metrics.

**Node Exporter**

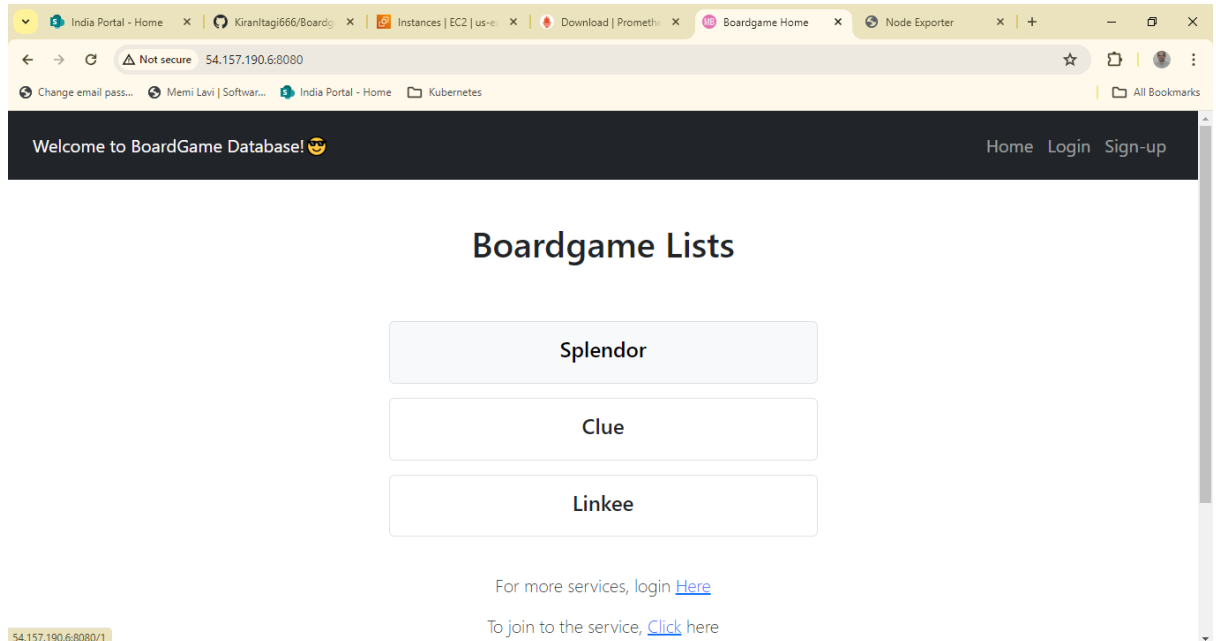
**Prometheus Node Exporter**

Version: (version=1.8.1, branch=HEAD, revision=400c3979931613db930ea035f39ce7b377cdbb5b)

- [Metrics](#)

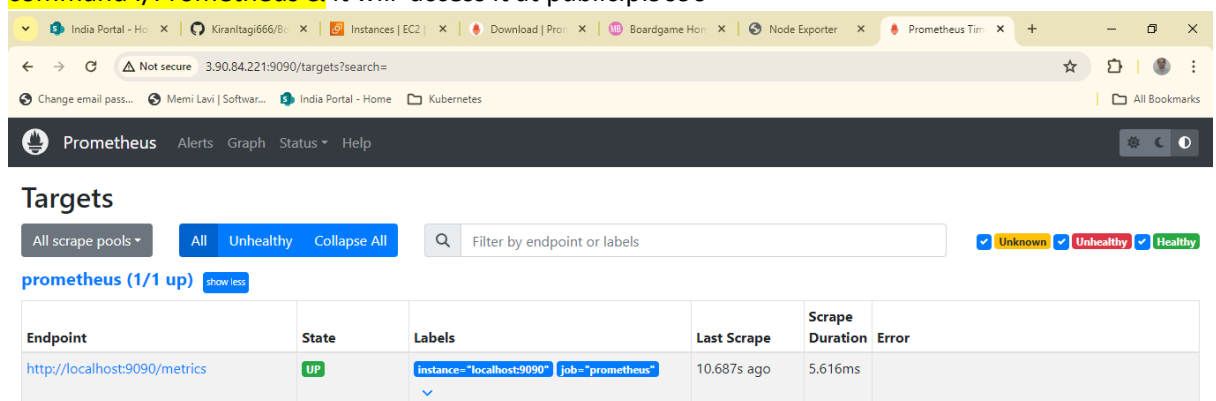
5. Install java and maven on this machine, clone the Board-game application and build it using **mvn package command**, after that go to the target folder where the .jar application is present, run the application using command **java-jar name of the jar file**

verify by copying publicip:8080



6. Next switch to the Monitoring\_Tools machine

Run Prometheus in the background by going to the Prometheus directory and running the command `./Prometheus &` it will access it at publicip:9090



7. Create a file alert\_rules.yml in Prometheus

```
---
groups:
- name: alert_rules
  rules:
- alert: InstanceDown
  expr: up == 0
  for: 1m
  labels:
```

```

    severity: critical
  annotations:
    summary: Endpoint {{ $labels.instance }} down
    description: "{{ $labels.instance }} of job {{ $labels.job }} has been down for
      more than 1 minute."
- alert: WebsiteDown
  expr: probe_success == 0
  for: 1m
  labels:
    severity: critical
  annotations:
    description: The website at {{ $labels.instance }} is down.
    summary: Website down
- alert: HostOutOfMemory
  expr: node_memory_MemAvailable / node_memory_MemTotal * 100 < 25
  for: 5m
  labels:
    severity: warning
  annotations:
    summary: Host out of memory (instance {{ $labels.instance }})
    description: |-
      Node memory is filling up (< 25% left)
      VALUE = {{ $value }}
      LABELS: {{ $labels }}
- alert: HostOutOfDiskSpace
  expr: (node_filesystem_avail{mountpoint="/" * 100) /
    node_filesystem_size{mountpoint="/" * 100} < 50
  for: 1s
  labels:
    severity: warning
  annotations:
    summary: Host out of disk space (instance {{ $labels.instance }})
    description: |-
      Disk is almost full (< 50% left)
      VALUE = {{ $value }}
      LABELS: {{ $labels }}
- alert: HostHighCpuLoad
  expr: (sum by (instance)
    (irate(node_cpu{job="node_exporter_metrics",mode="idle"}[5m]))) > 80
  for: 5m
  labels:
    severity: warning
  annotations:
    summary: Host high CPU load (instance {{ $labels.instance }})
    description: |-
      CPU load is > 80%
      VALUE = {{ $value }}
      LABELS: {{ $labels }}

```

```

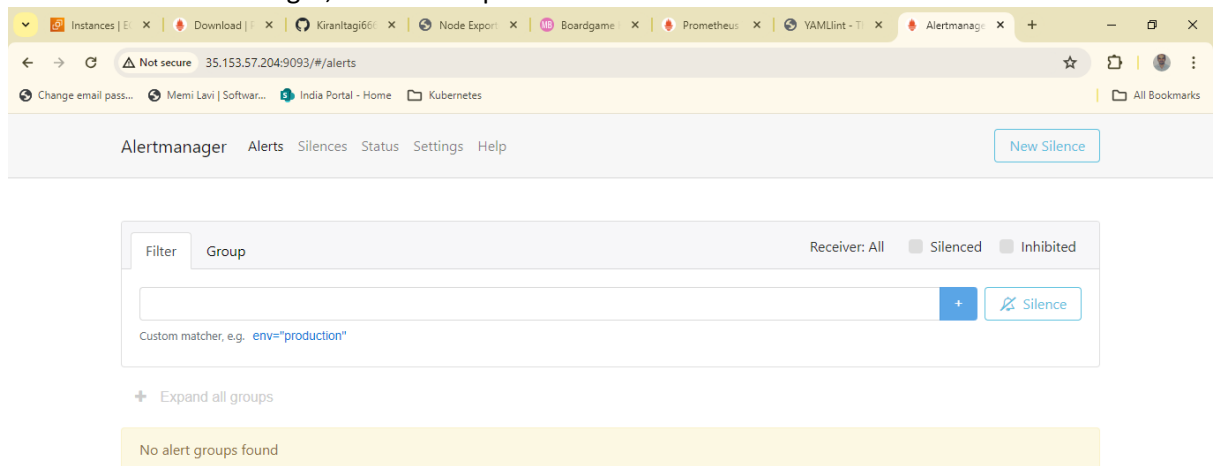
- alert: ServiceUnavailable
  expr: up{job="node_exporter"} == 0
  for: 2m
  labels:
    severity: critical
  annotations:
    summary: Service Unavailable (instance {{ $labels.instance }})
    description: |-
      The service {{ $labels.job }} is not available
      VALUE = {{ $value }}
      LABELS: {{ $labels }}
- alert: HighMemoryUsage
  expr: (node_memory_Active / node_memory_MemTotal) * 100 > 90
  for: 10m
  labels:
    severity: critical
  annotations:
    summary: High Memory Usage (instance {{ $labels.instance }})
    description: |-
      Memory usage is > 90%
      VALUE = {{ $value }}
      LABELS: {{ $labels }}
- alert: FileSystemFull
  expr: (node_filesystem_avail / node_filesystem_size) * 100 < 10
  for: 5m
  labels:
    severity: critical
  annotations:
    summary: File System Almost Full (instance {{ $labels.instance }})
    description: |-
      File system has < 10% free space
      VALUE = {{ $value }}
      LABELS: {{ $labels }}
save it

```

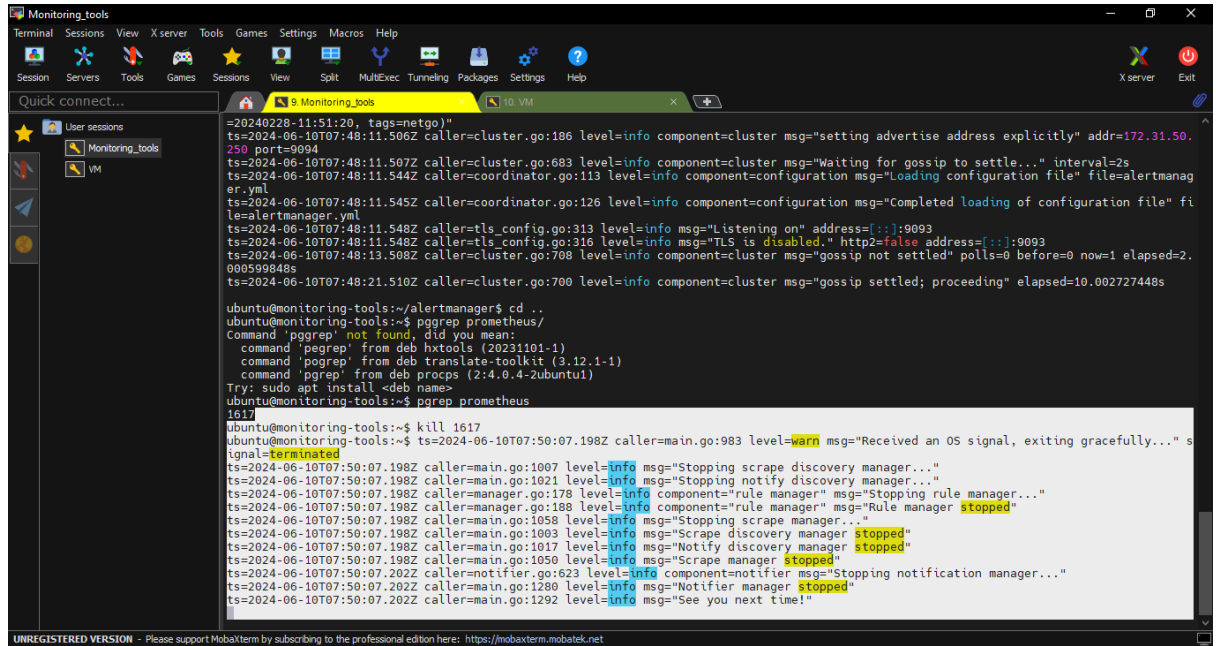
8. Open Prometheus.yml file and define the rule\_files: with alert\_rules.yml

[illegible]

9. Now run the alertmanager, access it on port 9093



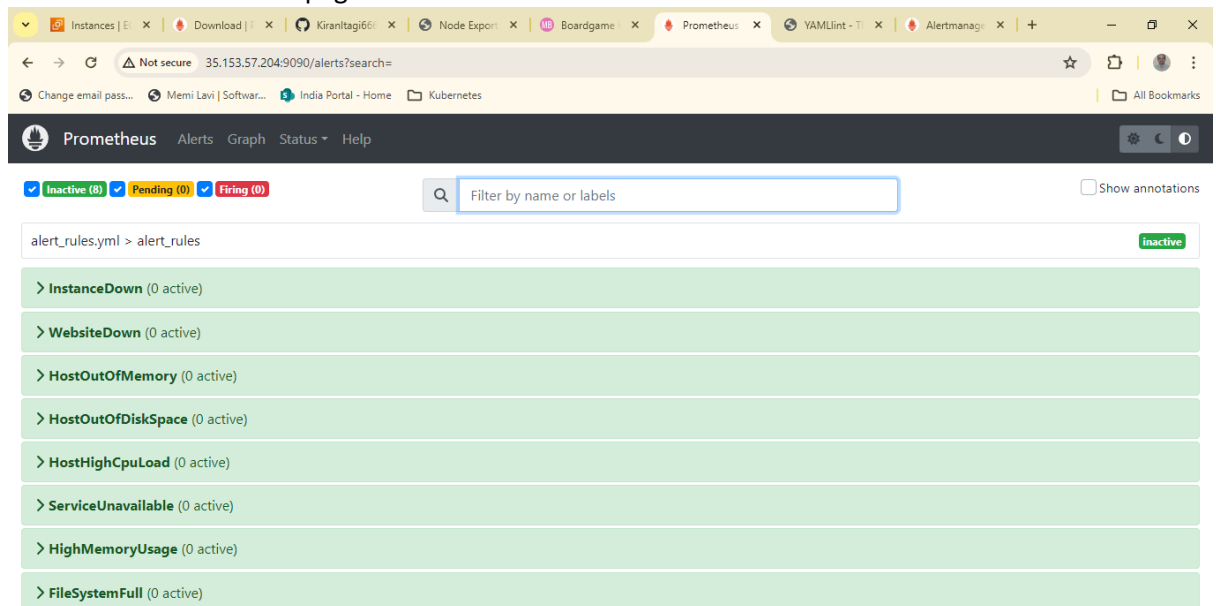
## 10. Restart prometheus



```
Monitoring_tools
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MUXExec Tunneling Packages Settings Help
Quick connect...
Monitoring_tools
VM
=20240228-11:51:20. tags=netgo)"
ts=2024-06-10T07:48:11.506Z caller=cluster.go:186 level=info component=cluster msg="setting advertise address explicitly" addr=172.31.50.250 port=9094
ts=2024-06-10T07:48:11.507Z caller=cluster.go:683 level=info component=cluster msg="Waiting for gossip to settle..." interval=2s
ts=2024-06-10T07:48:11.544Z caller=coordinator.go:113 level=info component=configuration msg="Loading configuration file" file=alertmanager.yml
ts=2024-06-10T07:48:11.545Z caller=coordinator.go:126 level=info component=configuration msg="Completed loading of configuration file" file=alertmanager.yml
ts=2024-06-10T07:48:11.548Z caller=tls_config.go:313 level=info msg="Listening on" address=[::]:9093
ts=2024-06-10T07:48:11.548Z caller=tls_config.go:316 level=info msg="TLS is disabled." http2=false address=[::]:9093
ts=2024-06-10T07:48:13.508Z caller=cluster.go:708 level=info component=cluster msg="gossip not settled" polls=0 before=0 now=1 elapsed=2.00059848s
ts=2024-06-10T07:48:21.510Z caller=cluster.go:700 level=info component=cluster msg="gossip settled; proceeding" elapsed=10.002727448s

ubuntu@monitoring-tools:~/alertmanager$ cd ..
ubuntu@monitoring-tools:~$ pgrep prometheus/
Command 'pgrep' not found, did you mean:
  Command 'pgrep' from deb hxttools (20231101-1)
  Command 'pgrep' from deb translate-toolkit (3.12.1-1)
  Command 'pgrep' from deb procs (2:4.0.4-2ubuntu1)
Try: sudo apt install <deb name>
ubuntu@monitoring-tools:~$ pgrep prometheus
1617
ubuntu@monitoring-tools:~$ kill 1617
ubuntu@monitoring-tools:~$ ts=2024-06-10T07:50:07.198Z caller=main.go:983 level=warn msg="Received an OS signal, exiting gracefully..." signal=terminated
ts=2024-06-10T07:50:07.198Z caller=main.go:1007 level=info msg="Stopping scrape discovery manager..."
ts=2024-06-10T07:50:07.198Z caller=main.go:1021 level=info msg="Stopping notify discovery manager..."
ts=2024-06-10T07:50:07.198Z caller=manager.go:178 level=info component="rule manager" msg="Stopping rule manager..."
ts=2024-06-10T07:50:07.198Z caller=manager.go:188 level=info component="rule manager" msg="Rule manager stopped"
ts=2024-06-10T07:50:07.198Z caller=main.go:1058 level=info msg="Stopping scrape manager..."
ts=2024-06-10T07:50:07.198Z caller=main.go:1003 level=info msg="Scrape discovery manager stopped"
ts=2024-06-10T07:50:07.198Z caller=main.go:1017 level=info msg="Notify discovery manager stopped"
ts=2024-06-10T07:50:07.198Z caller=main.go:1050 level=info msg="Scrape manager stopped"
ts=2024-06-10T07:50:07.202Z caller=notifier.go:623 level=info component=notifier msg="Stopping notification manager..."
ts=2024-06-10T07:50:07.202Z caller=main.go:1280 level=info msg="Notifier manager stopped"
ts=2024-06-10T07:50:07.202Z caller=main.go:1292 level=info msg="See you next time!"
```

## 11. Refresh the Prometheus page





alert_rules		Interval: 15.0s	4.915s ago	1.232ms
Rule	State	Error	Last Evaluation	Evaluation Time
<b>alert:</b> InstanceDown <b>expr:</b> up == 0 <b>for:</b> 1m <b>labels:</b> severity: critical <b>annotations:</b> description: {{ \$labels.instance }} of job {{ \$labels.job }} has been down for more than 1 minute. summary: Endpoint {{ \$labels.instance }} down	OK		4.916s ago	0.291ms
<b>alert:</b> WebsiteDown <b>expr:</b> probe_success == 0 <b>for:</b> 1m <b>labels:</b> severity: critical <b>annotations:</b>	OK		4.916s ago	0.103ms

12. Inside Prometheus we have to mention the information of blackbox exporter and node exporter, so

i. Provide the IP address of alert manager in the Prometheus.yml file, in the targets menu

```
# Alertmanager configuration
alerting:
  alertmanagers:
    - static_configs:
      - targets:
        - 5.153.57.204:9093

# Load rules once and periodically evaluate them according to the global 'evaluation_interval'.
rule_files:
  - "alert_rules.yml"
  # - "second_rules.yml"

# A scrape configuration containing exactly one endpoint to scrape:
# Here it's Prometheus itself.
scrape_configs:
  # The job name is added as a label `job=<job_name>` to any timeseries scraped from this config.
  - job_name: "prometheus"

    # metrics_path defaults to '/metrics'
    -- INSERT --
```

ii. Node exporter and blackbox exporter are scraping metrics which are to be given Prometheus that configuration is done by adding 3 jobs (Prometheus, node exporter, blackbox exporter)

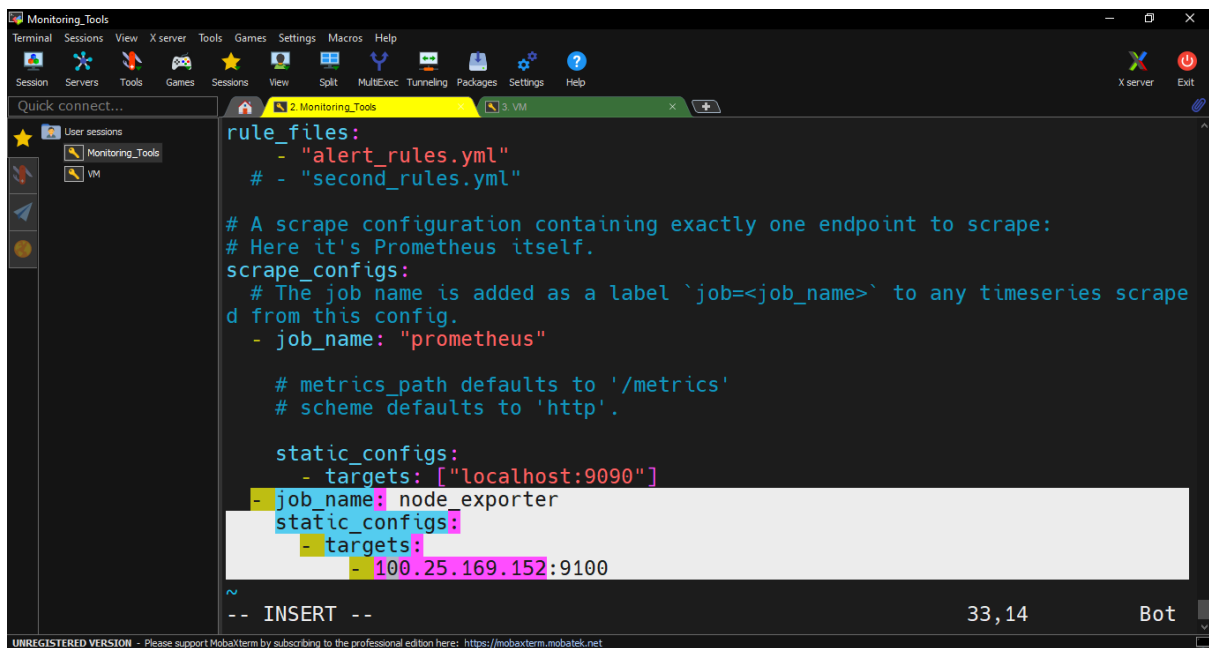
- job\_name: node\_exporter

static\_configs:

- targets:

- 3.110.195.114:9100

Add a job under Prometheus job



The screenshot shows a MobaXterm terminal window with a dark theme. The terminal is displaying the configuration for Prometheus. The configuration includes rule files, scrape configurations for Prometheus itself and a node exporter, and static configurations for targets. The node exporter target is highlighted in yellow.

```
rule_files:
- "alert_rules.yml"
# - "second_rules.yml"

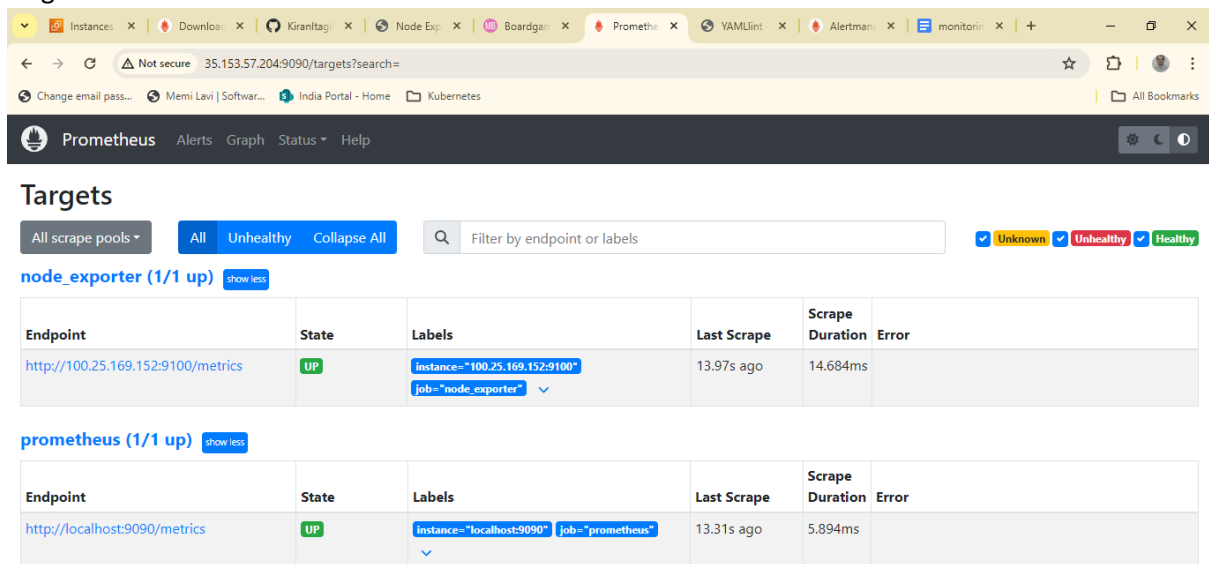
# A scrape configuration containing exactly one endpoint to scrape:
# Here it's Prometheus itself.
scrape_configs:
# The job name is added as a label `job=<job_name>` to any timeseries scrape
d from this config.
- job_name: "prometheus"

# metrics_path defaults to '/metrics'
# scheme defaults to 'http'.

static_configs:
- targets: ["localhost:9090"]
- job_name: node_exporter
static_configs:
- targets:
- 100.25.169.152:9100

-- INSERT --
```

Restart Prometheus and refresh the Prometheus page you can see the node exporter added in the targets

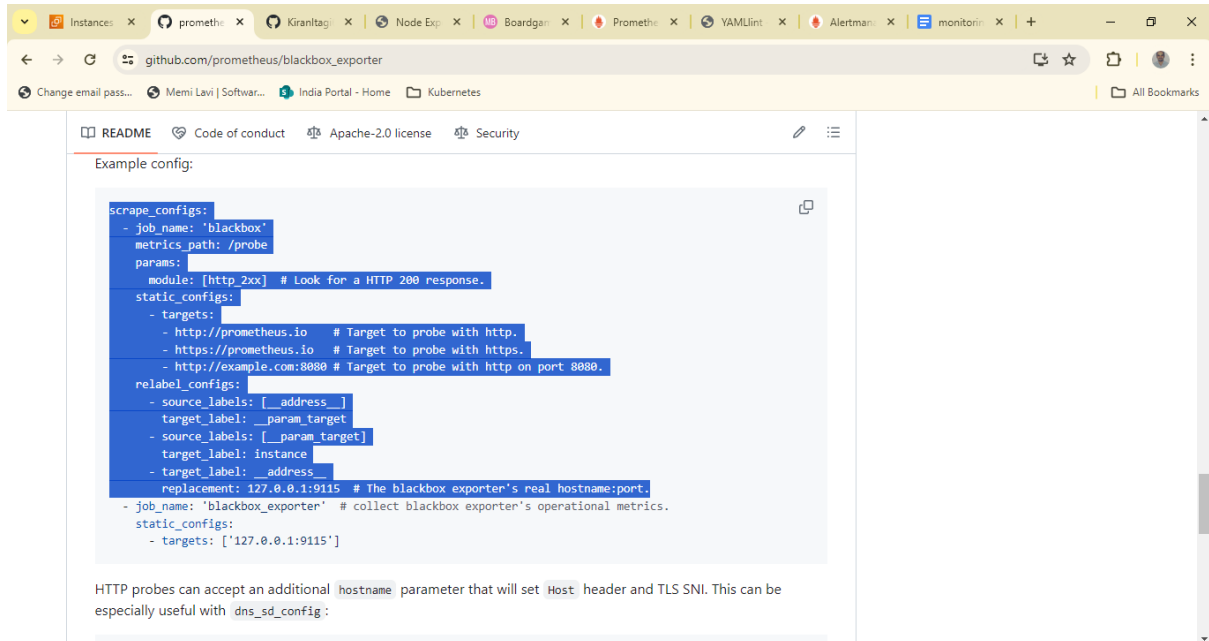


The screenshot shows the Prometheus web interface. The 'Targets' tab is selected, displaying a table of scrape targets. The table has columns for Endpoint, State, Labels, Last Scrape, Scrape Duration, and Error. Two targets are listed: 'node\_exporter' and 'prometheus'. Both are in a 'UP' state.

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://100.25.169.152:9100/metrics	UP	instance="100.25.169.152:9100" job="node_exporter"	13.97s ago	14.684ms	
http://localhost:9090/metrics	UP	instance="localhost:9090" job="prometheus"	13.31s ago	5.894ms	

Next add blackbox exporter, go to the Prometheus.io page, click on the git hub repo link

Scroll down and copy this part

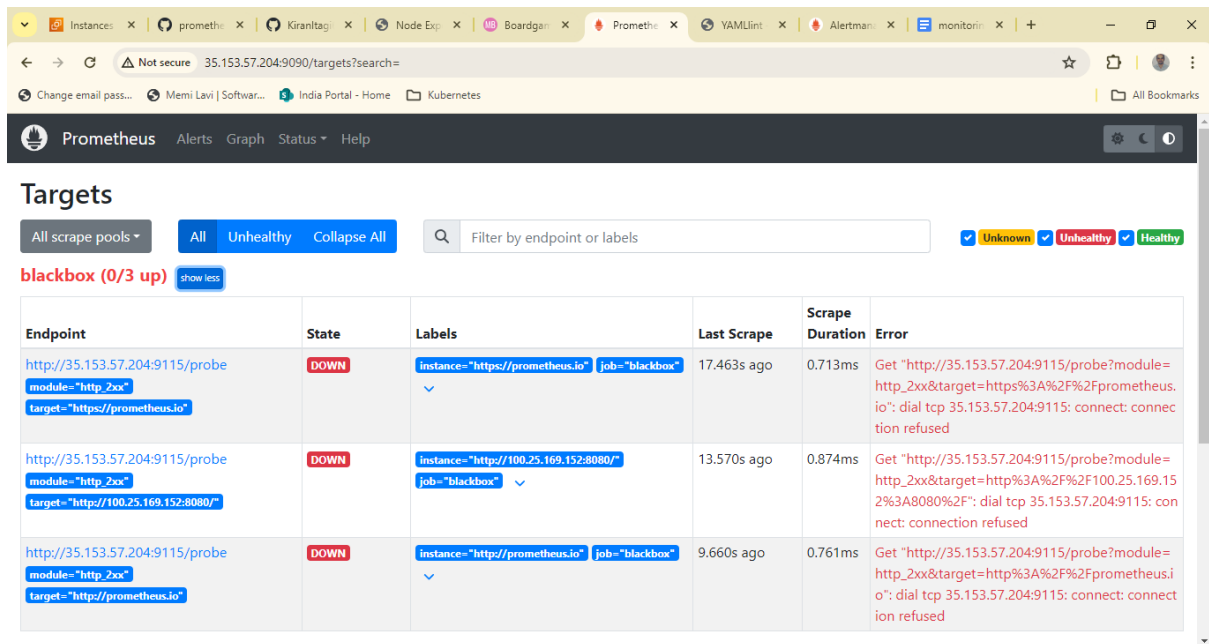


in targets under static configs: paste the address where the application is running and in replacement paste the address where the blackbox is running

```
- job_name: blackbox
metrics_path: /probe
params:
  module:
    - http_2xx
static_configs:
  - targets:
    - http://prometheus.io
    - https://prometheus.io
    - http://100.25.169.152:8080/ (application to monitotred)
```

```
relabel_configs:
  - source_labels:
    - __address__
    target_label: __param_target
  - source_labels:
    - __param_target
    target_label: instance
  - target_label: __address__
    replacement: 35.153.57.204:9115 (blackbox address)
```

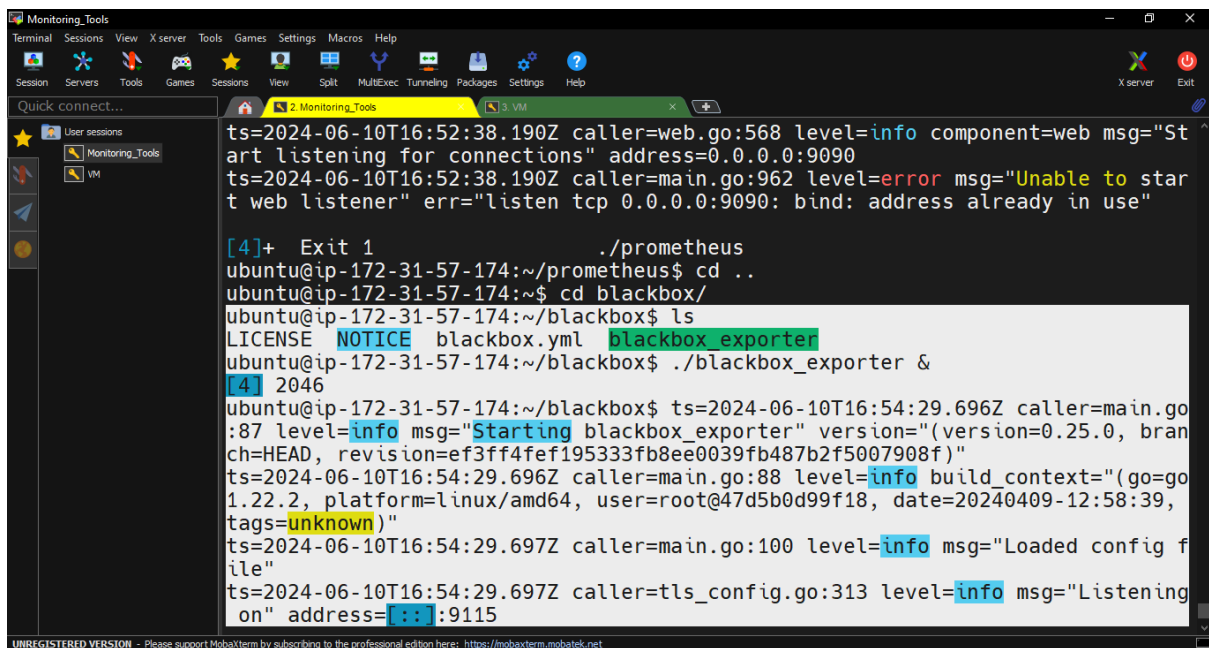
restart prometheus commands: 1. pgrep prometheus 2. kill pid 3. ./prometheus &  
refresh Prometheus page



The screenshot shows the Prometheus web interface with the 'Targets' tab selected. It displays three targets in a 'DOWN' state. Each target has a URL, labels, last scrape time, duration, and an error message. The error messages indicate connection refused errors.

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
<a href="http://35.153.57.204:9115/probe?module=http_2xx&amp;target=https://prometheus.io">http://35.153.57.204:9115/probe?module=http_2xx&amp;target=https://prometheus.io</a>	DOWN	instance="https://prometheus.io" job="blackbox"	17.463s ago	0.713ms	Get "http://35.153.57.204:9115/probe?module=http_2xx&target=https://prometheus.io": dial tcp 35.153.57.204:9115: connect: connection refused
<a href="http://35.153.57.204:9115/probe?module=http_2xx&amp;target=http://100.25.169.152:8080/">http://35.153.57.204:9115/probe?module=http_2xx&amp;target=http://100.25.169.152:8080/</a>	DOWN	instance="http://100.25.169.152:8080/" job="blackbox"	13.570s ago	0.874ms	Get "http://35.153.57.204:9115/probe?module=http_2xx&target=http://100.25.169.152:8080/": dial tcp 35.153.57.204:9115: connect: connection refused
<a href="http://35.153.57.204:9115/probe?module=http_2xx&amp;target=http://prometheus.io">http://35.153.57.204:9115/probe?module=http_2xx&amp;target=http://prometheus.io</a>	DOWN	instance="http://prometheus.io" job="blackbox"	9.660s ago	0.761ms	Get "http://35.153.57.204:9115/probe?module=http_2xx&target=http://prometheus.io": dial tcp 35.153.57.204:9115: connect: connection refused

Blackbox will be down so go to blackbox exporter and execute and access it at port 9115



The screenshot shows a terminal window with the following commands and output:

```

ts=2024-06-10T16:52:38.190Z caller=web.go:568 level=info component=web msg="Starting web listener" address=0.0.0.0:9090
ts=2024-06-10T16:52:38.190Z caller=main.go:962 level=error msg="Unable to start web listener" err="listen tcp 0.0.0.0:9090: bind: address already in use"

[4]+  Exit 1                  ./prometheus
ubuntu@ip-172-31-57-174:~/prometheus$ cd ..
ubuntu@ip-172-31-57-174:~$ cd blackbox/
ubuntu@ip-172-31-57-174:~/blackbox$ ls
LICENSE NOTICE blackbox.yml blackbox_exporter
ubuntu@ip-172-31-57-174:~/blackbox$ ./blackbox_exporter &
[4] 2046
ubuntu@ip-172-31-57-174:~/blackbox$ ts=2024-06-10T16:54:29.696Z caller=main.go:87 level=info msg="Starting blackbox_exporter" version="(version=0.25.0, branch=HEAD, revision=ef3ff4fef195333fb8ee0039fb487b2f5007908f)"
ts=2024-06-10T16:54:29.696Z caller=main.go:88 level=info build_context="(go=go1.22.2, platform=linux/amd64, user=root@47d5b0d99f18, date=20240409-12:58:39, tags=unknown)"
ts=2024-06-10T16:54:29.697Z caller=main.go:100 level=info msg="Loaded config file"
ts=2024-06-10T16:54:29.697Z caller=tls_config.go:313 level=info msg="Listening on" address=[::]:9115

```

Blackbox Exporter

[Probe prometheus.io for http\\_2xx](#)

[Debug probe prometheus.io for http\\_2xx](#)

[Metrics](#)

[Configuration](#)

Recent Probes

Module	Target	Result	Debug
http_2xx	https://prometheus.io	Success	<a href="#">Logs</a>
http_2xx	http://prometheus.io	Success	<a href="#">Logs</a>
http_2xx	http://100.25.169.152:8080	Success	<a href="#">Logs</a>
http_2xx	https://prometheus.io	Success	<a href="#">Logs</a>
http_2xx	http://prometheus.io	Success	<a href="#">Logs</a>
http_2xx	http://100.25.169.152:8080	Success	<a href="#">Logs</a>
http_2xx	https://prometheus.io	Success	<a href="#">Logs</a>
http_2xx	http://prometheus.io	Success	<a href="#">Logs</a>
http_2xx	http://100.25.169.152:8080	Success	<a href="#">Logs</a>
http_2xx	https://prometheus.io	Success	<a href="#">Logs</a>
http_2xx	http://prometheus.io	Success	<a href="#">Logs</a>
http_2xx	http://100.25.169.152:8080	Success	<a href="#">Logs</a>
http_2xx	https://prometheus.io	Success	<a href="#">Logs</a>
http_2xx	http://prometheus.io	Success	<a href="#">Logs</a>

And in Prometheus after refreshing

Prometheus Alerts Graph Status Help

Targets

All scrape pools All Unhealthy Collapse All Filter by endpoint or labels Unknown Unhealthy Healthy

blackbox (3/3 up) show less

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
<a href="#">http://35.153.57.204:9115/probe</a> <a href="#">module="http_2xx"</a> <a href="#">target="http://prometheus.io"</a>	UP	<a href="#">instance="http://prometheus.io"</a> <a href="#">job="blackbox"</a>	8.671s ago	131.950ms	
<a href="#">http://35.153.57.204:9115/probe</a> <a href="#">module="http_2xx"</a> <a href="#">target="https://prometheus.io"</a>	UP	<a href="#">instance="https://prometheus.io"</a> <a href="#">job="blackbox"</a>	1.475s ago	44.245ms	
<a href="#">http://35.153.57.204:9115/probe</a> <a href="#">module="http_2xx"</a> <a href="#">target="http://100.25.169.152:8080/"</a>	UP	<a href="#">instance="http://100.25.169.152:8080/"</a> <a href="#">job="blackbox"</a>	12.581s ago	13.246ms	

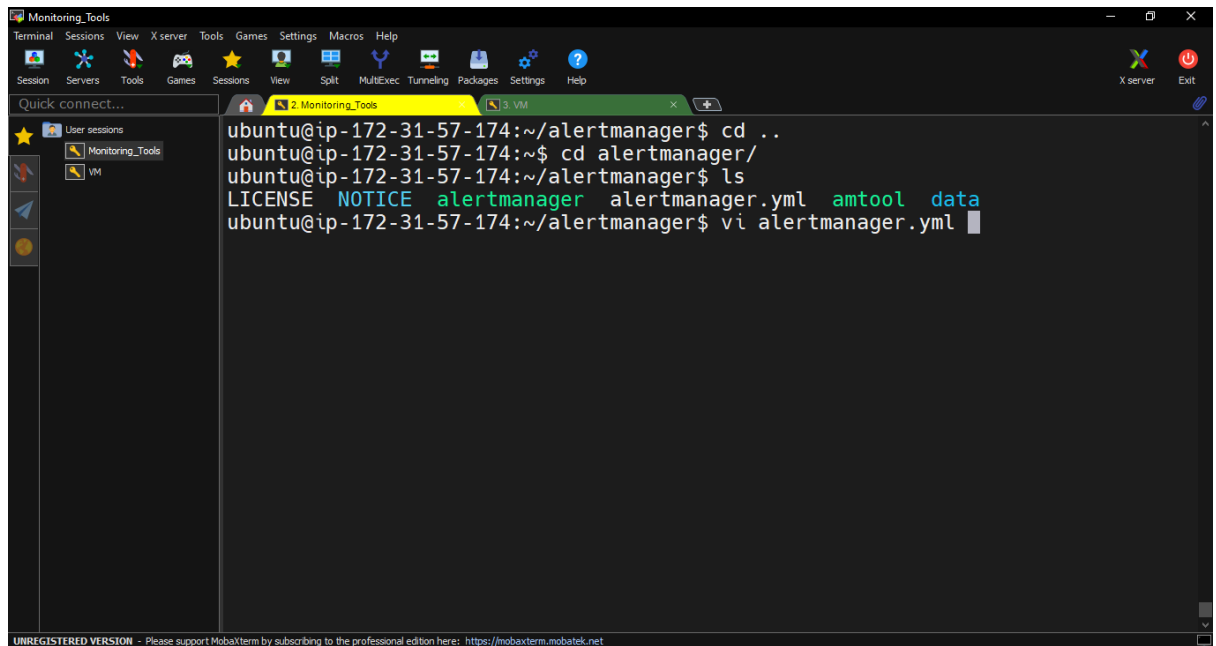
node\_exporter (1/1 up) show less

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error

Monitoring part is now done all the data from the VM and application(board game) are now being scraped to the Prometheus.

Now we need to do the configuration to receive email notifications

13. Goto alertmanager and edit alertmanager.yml



route:

group\_by:

- alertname

group\_wait: 30s

group\_interval: 5m

repeat\_interval: 1h

receiver: email-notification

receivers:

- name: email-notifications

email\_configs:

- to: kiranitag09121988@gmail.com

from: test@gmail.com

smarthost: smtp.gmail.com:587

auth\_username: kiranitag09121988@gmail.com

auth\_identity: kiranitag09121988@gmail.com

auth\_password: bmsi pksm vint bnrc

send\_resolved: true

inhibit\_rules:

- source\_match:

severity: critical

target\_match:

severity: warning

equal:

- alertname

go to alertmanager directly and 1. pgrep alertmanage 2. kill 'pid'  
3. ./alertmanager &

commands: 1. pgrep prometheus 2. kill pid 3. ./prometheus &

Restart alertmanager  
Restart Prometheus

Prometheus Alerts				
<b>annotations:</b> description: {{ \$labels.instance }} of job {{ \$labels.job }} has been down for more than 1 minute. summary: Endpoint {{ \$labels.instance }} down				
<b>alert:</b> WebsiteDown <b>expr:</b> probe_success == 0 <b>for:</b> 1m <b>labels:</b> severity: critical <b>annotations:</b> description: The website at {{ \$labels.instance }} is down. summary: Website down	OK		12.247s ago	0.116ms
<b>alert:</b> HostOutOfMemory <b>expr:</b> node_memory_MemAvailable / node_memory_MemTotal * 100 < 25 <b>for:</b> 5m <b>labels:</b> severity: warning <b>annotations:</b> description: Node memory is filling up (< 25% left) VALUE = {{ \$value }} LABELS: {{ \$labels }} summary: Host out of memory (instance {{ \$labels.instance }})	OK		12.247s ago	0.155ms
<b>alert:</b> HostOutOfDiskSpace <b>expr:</b> node_filesystem_free / node_filesystem_size * 100 < 10 <b>for:</b> 5m <b>labels:</b> severity: warning <b>annotations:</b> description: Node filesystem is filling up (< 10% left) VALUE = {{ \$value }} LABELS: {{ \$labels }} summary: Host out of disk space (instance {{ \$labels.instance }})	OK		12.247s ago	0.136ms

Let us check for website down,

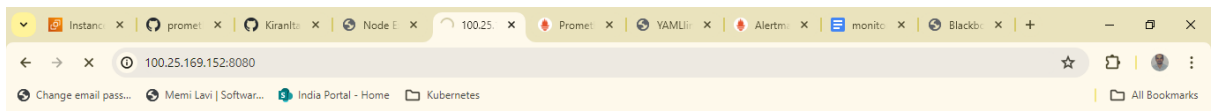
Press `ctrl + c` where the application is running

```

work.security.web.header.HeaderWriterFilter@60e9df3c, org.springframework.security.web.authentication.logout.
LogoutFilter@1059754c, org.springframework.security.web.authentication.UsernamePasswordAuthenticationFilter@7
5504cef, org.springframework.security.web.savedrequest.RequestCacheAwareFilter@6f815e7f, org.springframework.
security.web.servletapi.SecurityContextHolderAwareRequestFilter@107e5441, org.springframework.security.web.au
thentication.AnonymousAuthenticationFilter@28c88600, org.springframework.security.web.session.SessionManagemen
tFilter@435ce306, org.springframework.security.web.access.ExceptionTranslationFilter@261d8190, org.springfra
mework.security.web.access.intercept.FilterSecurityInterceptor@6a9287b1]
2024-06-10 16:04:08.761 INFO 2687 --- [main] o.s.b.a.w.s.WelcomePageHandlerMapping : Adding we
lcome page template: index
2024-06-10 16:04:09.063 INFO 2687 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat st
arted on port(s): 8080 (http) with context path ''
2024-06-10 16:04:09.081 INFO 2687 --- [main] c.j.DatabaseServiceProjectApplication : Started D
atabaseServiceProjectApplication in 5.55 seconds (JVM running for 6.23)
2024-06-10 16:05:13.169 INFO 2687 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializ
ing Spring DispatcherServlet 'dispatcherServlet'
2024-06-10 16:05:13.170 INFO 2687 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializ
ing Servlet 'dispatcherServlet'
2024-06-10 16:05:13.174 INFO 2687 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed
initialization in 4 ms

^C2024-06-10 17:33:04.634 INFO 2687 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing
JPA EntityManagerFactory for persistence unit 'default'
2024-06-10 17:33:04.635 INFO 2687 --- [ionShutdownHook] .SchemaDropperImpl$DelayedDropActionImpl : HHH000477
: Starting delayed evictData of schema as part of SessionFactory shut-down'
2024-06-10 17:33:04.638 INFO 2687 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPoo
l-1 - Shutdown initiated...
2024-06-10 17:33:04.641 INFO 2687 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPoo
l-1 - Shutdown completed.
ubuntu@ip-172-31-58-27:~/Boardgame/target$

```



## This site can't be reached

100.25.169.152 refused to connect.

Try:

- Checking the connection
- [Checking the proxy and the firewall](#)

ERR\_CONNECTION\_REFUSED

Reload

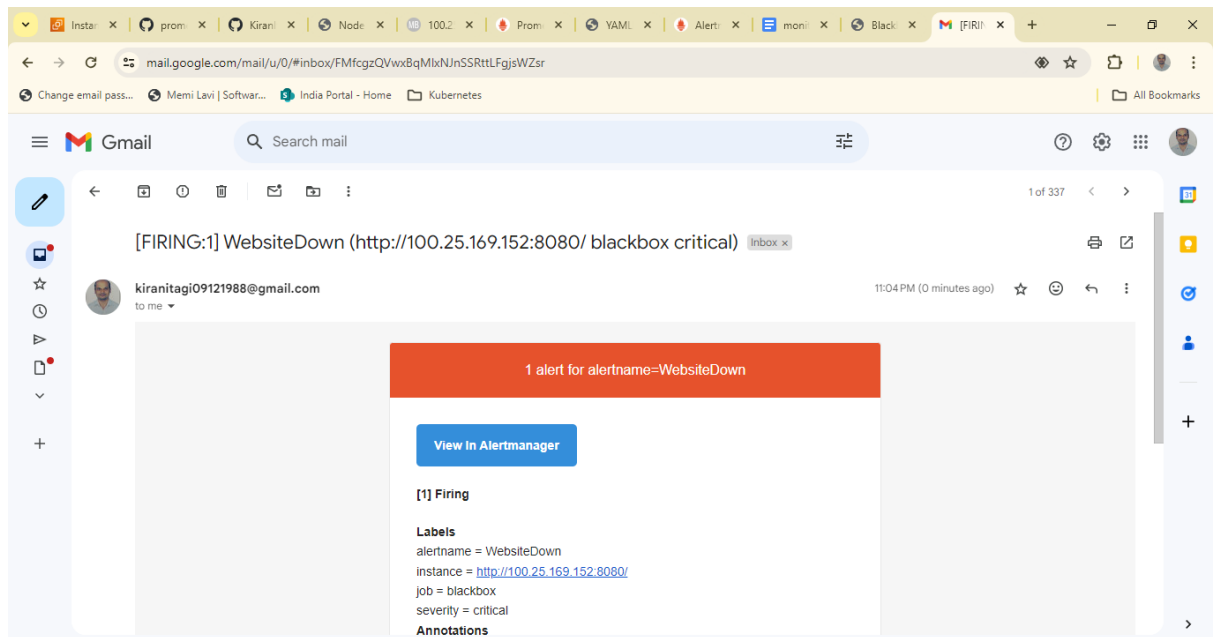
Details

chrome-error://chromewebdata/#buttons

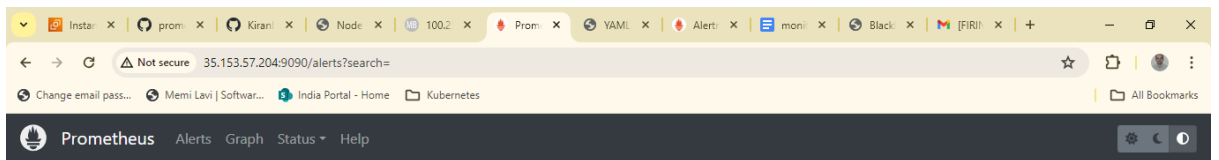
## When the state is firing we receive a email notification

A screenshot of the Prometheus Alerts page. The page shows a list of alerts. The 'alert\_rules.yml &gt; alert\_rules' section is expanded, showing a 'WebsiteDown' alert. The alert is in a 'FIRING' state. The alert details include the name 'WebsiteDown', the expression 'probe\_success == 0', the for time '1m', and the labels 'severity: critical'. The annotations show the description 'The website at {{ \$labels.instance }} is down.' and the summary 'Website down'. A table at the bottom shows the alert's state as 'FIRING' and the active time as '2024-06-10T17:33:11.661690604Z'.

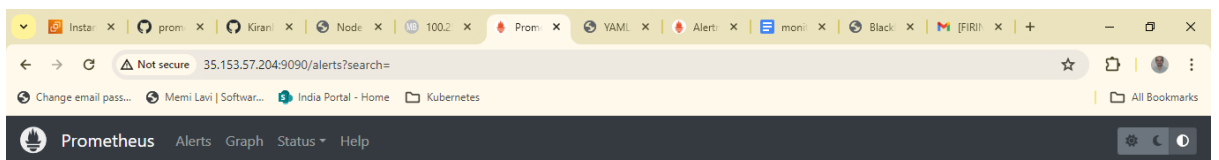




Next kill node exporter this will make the alarm service unavailable and instance down to fire



alert_rules.yml > alert_rules		inactive firing (3)
> InstanceDown	(1 active)	
> WebsiteDown	(1 active)	
> HostOutOfMemory	(0 active)	
> HostOutOfDiskSpace	(0 active)	
> HostHighCpuLoad	(0 active)	
> ServiceUnavailable	(1 active)	
> HighMemoryUsage	(0 active)	
> FileSystemFull	(0 active)	



alert_rules.yml > alert_rules		inactive pending (2) firing (1)
> InstanceDown	(1 active)	
> WebsiteDown	(1 active)	
> HostOutOfMemory	(0 active)	
> HostOutOfDiskSpace	(0 active)	
> HostHighCpuLoad	(0 active)	
> ServiceUnavailable	(1 active)	
> HighMemoryUsage	(0 active)	
> FileSystemFull	(0 active)	

After 2 min we will get email notification

Insta x prom x Kiran x Node x 100.2 x Prom x YAMI x Alert x moni x Black x Inbo x

mail.google.com/mail/u/0/#inbox

Change email pass... Memi Lavi | Softwar... India Portal - Home Kubernetes

Gmail

Search mail

1-50 of 339

Primary

Promotions 9 new

Social 9 new

me

[FIRING:1] ServiceUnavailable (100.25.169.152:9100 node\_exporter critical) - 1 alert for alertname=ServiceUnavailable View in...

11:09 PM

me

[FIRING:1] InstanceDown (100.25.169.152:9100 node\_exporter critical) - 1 alert for alertname=InstanceDown View i...

11:04 PM

me

[FIRING:1] WebsiteDown (http://100.25.169.152:8080/ blackbox critical) - 1 alert for alertname=WebsiteDown View in Alertmanager [...]

11:04 PM

LinkedIn

Actalent shared a new post - Simulations are helping manufacturers maximize productivity and achieve...

7:49 PM

LinkedIn Job Alerts

"senior software engineer": Microsoft, Senior Software Engineer and more - Microsoft Senior Software Engineer: 6 company ...

11:30 AM

Quora Digest

How shameless is Narendra Modi? - Very Shameless ! 1. Even after Being the most influential and powerful person of the countr...

Jun 9

LinkedIn Job Alerts

"senior software engineer": Course Hero, Senior Software Engineer - Front End and more - Actively recruiting

Jun 9

Quora Digest

My boyfriend is Muslim and I am Hindu, and his mom wants him to marry a Muslim. How d...? - Indirectly he is telling you th...

Jun 8

Instahyre.com 2

Job | DevOps Engineer - GCP at Quantiphi Analytics - Hi Kiran, Here are some new job openings we have that match your profi...

Jun 8

HSBC India

Statements for Accounts under Customer ID 074-XXXXXX - Dear Customer,We enclose the statement for your account in the ...

Jun 8

LinkedIn Job Alerts

"senior software engineer": BrightEdge - Senior Software Engineer and more - BrightEdge Senior Software Engineer: As the i...

Jun 8

mail.google.com/mail/u/0/#inbox/FMfcgZQVwx8qMxplDSfsLVkfQJfDqrV

Change email pass... Memi Lavi | Softwar... India Portal - Home Kubernetes

Gmail

Search mail

2 of 339

[FIRING:1] InstanceDown (100.25.169.152:9100 node\_exporter critical)

kiranitagi09121988@gmail.com

11:08 PM (1 minute ago)

1 alert for alertname=InstanceDown

View in Alertmanager

[1] Firing

Labels

alertname = InstanceDown

instance = 100.25.169.152:9100

job = node\_exporter

severity = critical

Annotations

Browser tabs: Insta, prom, Kiran, Node, 100.2, Prom, YAMI, Alert, moni, Black, [FIRI]

Address bar: mail.google.com/mail/u/0/#inbox/FMfcgzQVwxBqMlxpsrGVDnwDkMhFLizq

Change email pass... | Memi Lavi | Softwar... | India Portal - Home | Kubernetes | All Bookmarks

Gmail Search mail

[FIRING:1] ServiceUnavailable (100.25.169.152:9100 node\_exporter critical) Inbox x

kiranitagi09121988@gmail.com to me 11:09 PM (0 minutes ago)

1 alert for alertname=ServiceUnavailable

[View in Alertmanager](#)

**[1] Firing**

**Labels**

alertname = ServiceUnavailable  
instance = [100.25.169.152:9100](#)  
job = node\_exporter  
severity = critical

**Annotations**