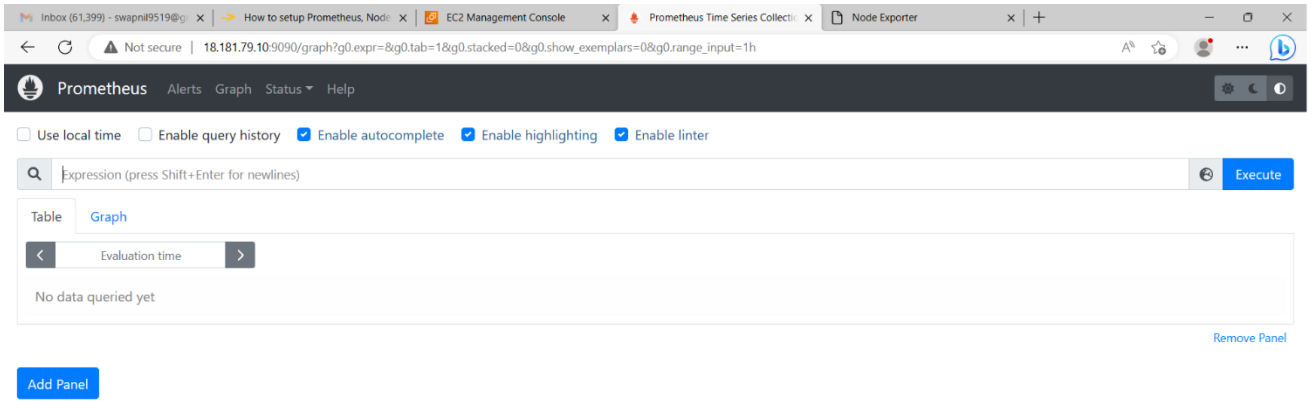
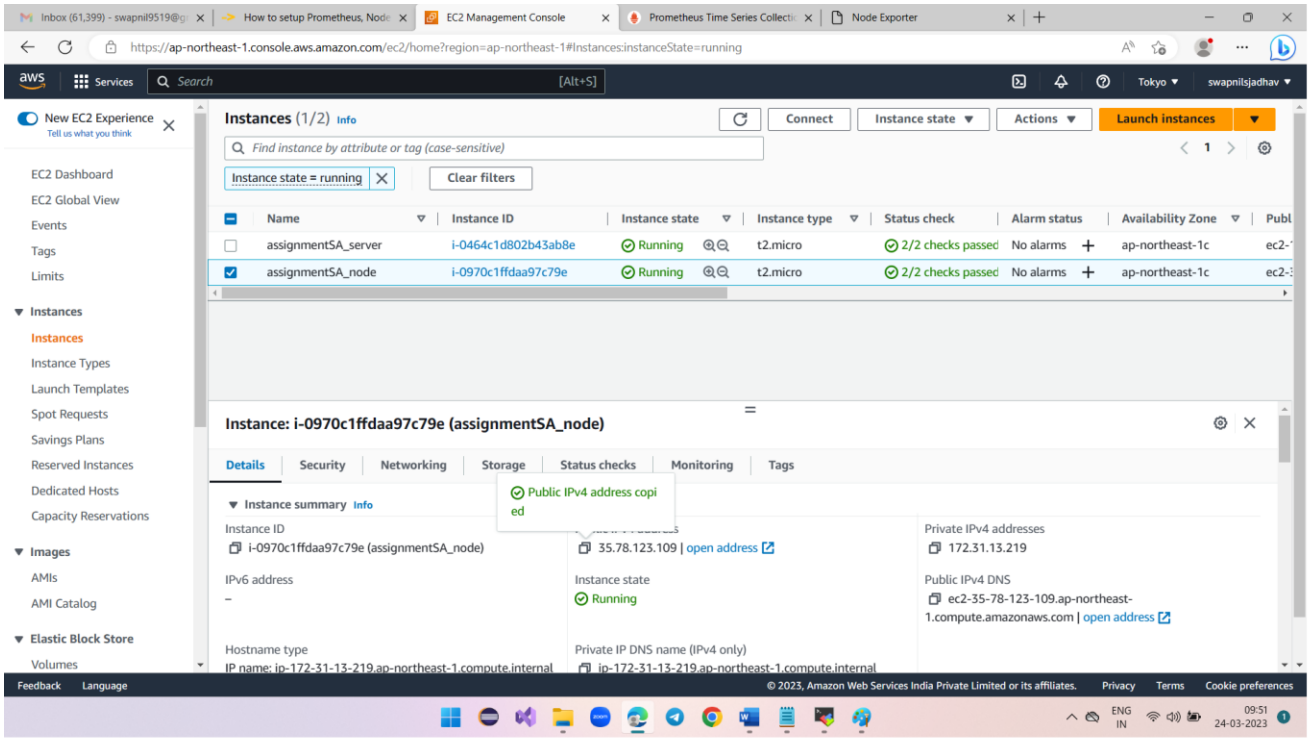
Prometheus Assignment 1

BY Swapnil Jadhav

You have been working with the CICD pipeline for so long and you have deployed your application to the production environment, But the organization is struggling in maintaining the environment as there is no automated monitoring solution in place, which can report the issue earlier and preventive measures can be taken on time. you are requested to implement the continuous monitoring using Prometheus for one of the customer applications landscapes.
You are required to execute following task.

1. Setup the monitoring server and install Prometheus on it.
2. setup another node which needs to be monitored.
3. Install and Start Docker Engine on both the machines.
4. Run node-exporter and cadvisor on another node.
5. Configure Prometheus to scrape target node-exporter and cadvisor for monitoring statistics.
6. Verify the health of the added targets using Prometheus UI.


Inbox (61,399) - swapnil9519@g
How to setup Prometheus, Node
EC2 Management Console
Prometheus Time Series Collecti
Node Exporter
Not secure | 18.181.79.10:9090/graph?g0.expr=&g0.tab=1&g0.stacked=0&g0.show_exemplars=0&g0.range_input=1h
Prometheus
Alerts
Graph
Status
Help
Use local time
Enable query history
Enable autocomplete
Enable highlighting
Enable linter
Expression (press Shift+Enter for newlines)
Execute
Table
Graph
Evaluation time
No data queried yet
Remove Panel
Add Panel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EC2 Management Console
Prometheus Time Series Collecti
Node Exporter
https://ap-northeast-1.console.aws.amazon.com/ec2/home?region=ap-northeast-1#Instances:instanceState=running
aws
Services
Search
[Alt+S]
Tokyo
swapnilsjadhav
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
assignmentSA_server
i-0464c1d802b43ab8e
Running
t2.micro
2/2 checks passed
No alarms
ap-northeast-1c
assignmentSA_node
i-0970c1ffdaa97c79e
Running
t2.micro
2/2 checks passed
No alarms
ap-northeast-1c
Instance: i-0970c1ffdaa97c79e (assignmentSA_node)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Public IPv4 address copied
Instance summary Info
Instance ID
i-0970c1ffdaa97c79e (assignmentSA_node)
35.78.123.109 | open address
Private IPv4 addresses
172.31.13.219
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-35-78-123-109.ap-northeast-1.compute.amazonaws.com | open address
Hostname type
IP name: ip-172-31-13-219.ap-northeast-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-13-219.ap-northeast-1.compute.internal
Feedback
Language
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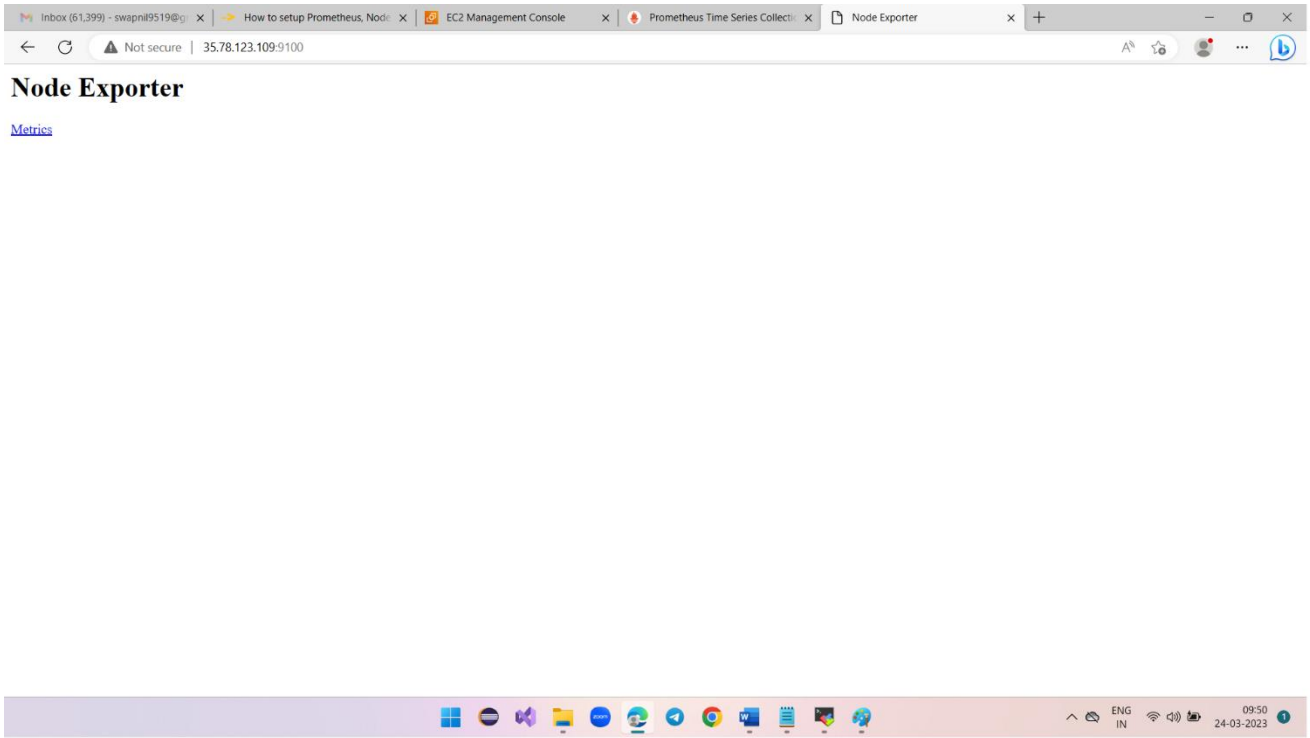
Privacy
Terms
Cookie preferences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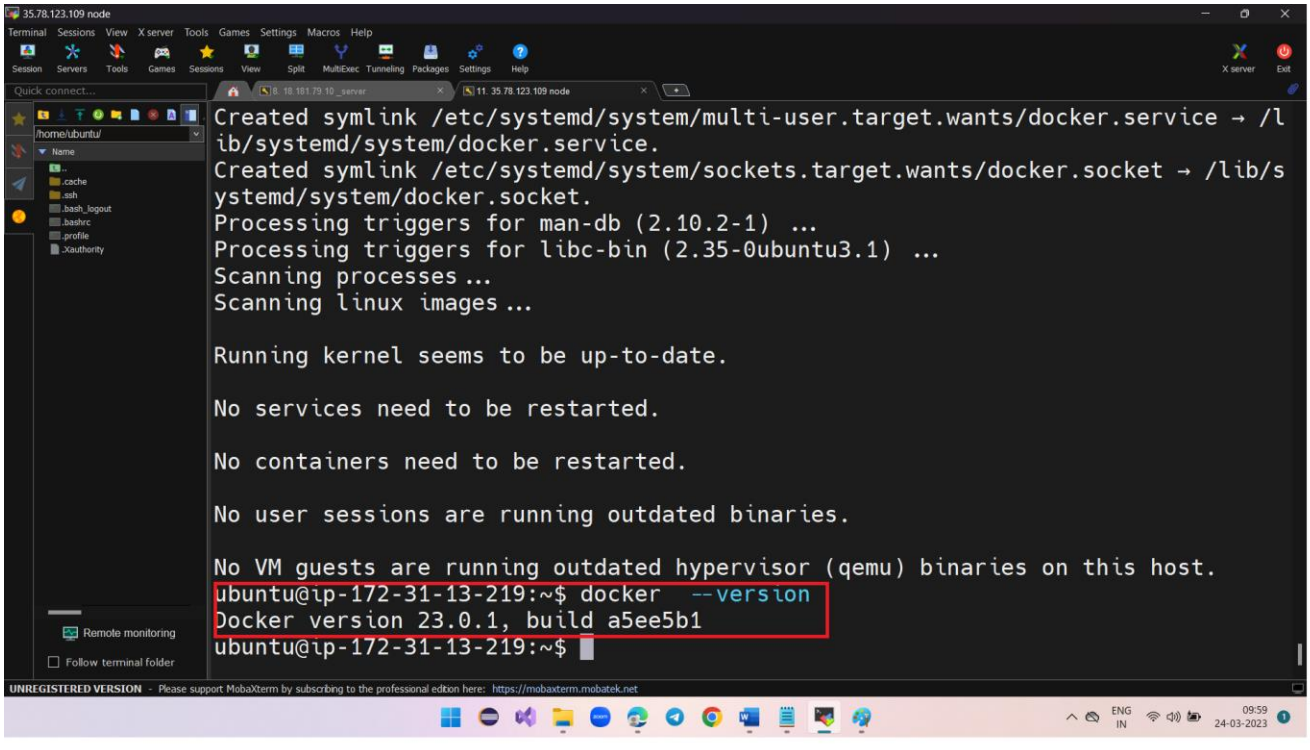
How to setup Prometheus, Node
EC2 Management Console
Prometheus Time Series Collecti
Node Exporter
Not secure | 35.78.123.109:9100
Node Exporter
Metrics


35.78.123.109 node
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
8. 10.181.79.10 _server
11. 35.78.123.109 node
/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Remote monitoring
Follow terminal folder
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-13-219:~$ docker --version
Docker version 23.0.1, build a5ee5b1
ubuntu@ip-172-31-13-219:~$
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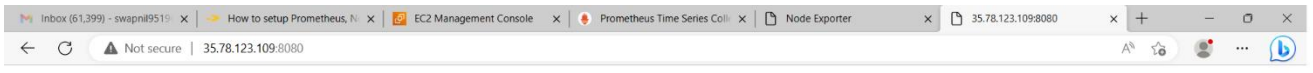
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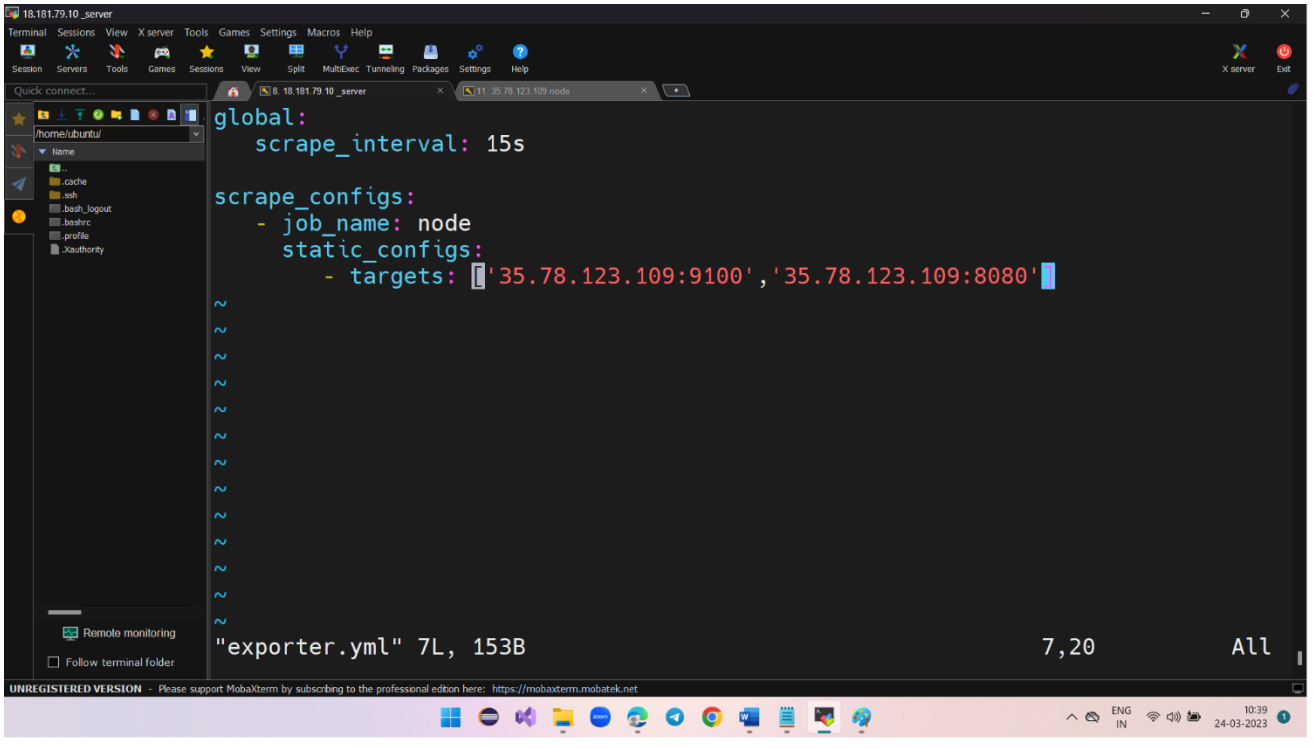
How to setup Prometheus, N
EC2 Management Console
Prometheus Time Series Coll
Node Exporter
35.78.123.109:8080
Not secure | 35.78.123.109:8080
cadvisor from Debian package doesn't support Web UI

ENG
IN
10:08
24-03-2023


18.181.79.10 _server
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Remote monitoring
Follow terminal folder
global:
scrape_interval: 15s
scrape_configs:
- job_name: node
static_configs:
- targets: ['35.78.123.109:9100','35.78.123.109:8080']
"exporter.yml" 7L, 153B
7,20
All
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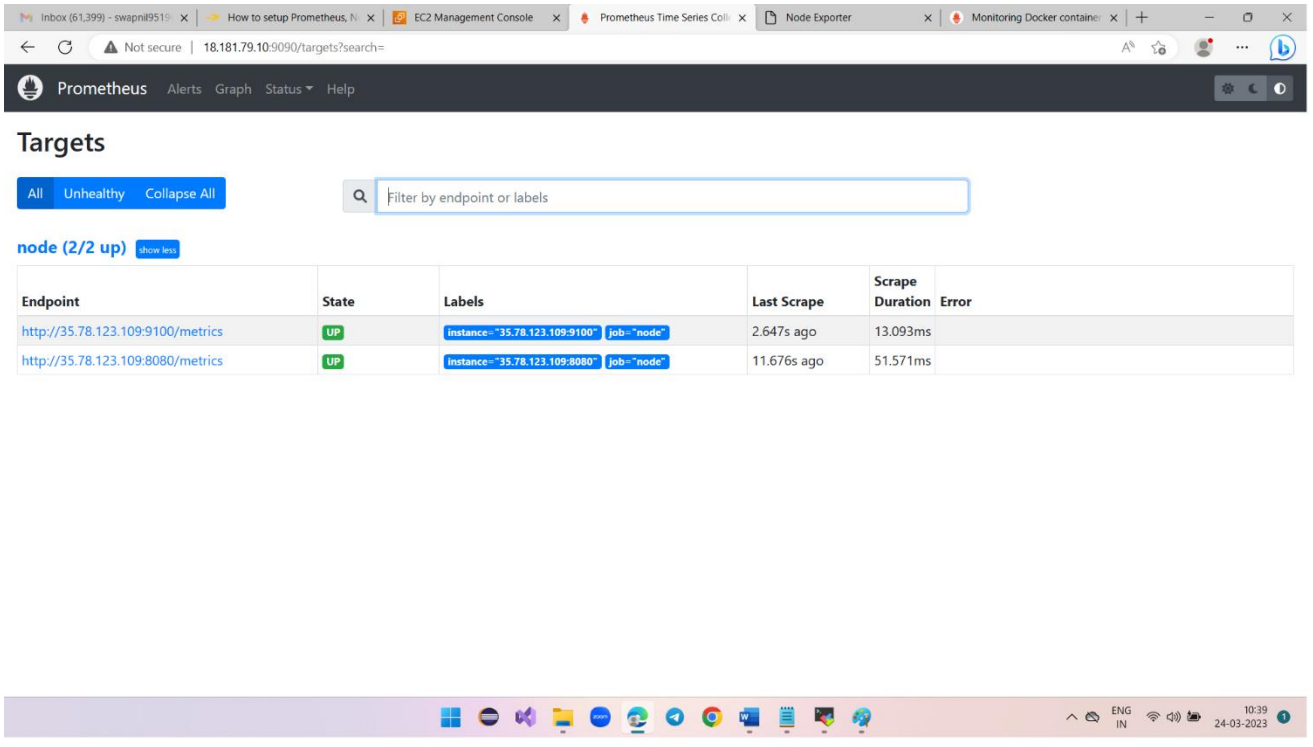
ENG
IN
10:39
24-03-2023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How to setup Prometheus, N
EC2 Management Console
Prometheus Time Series Colli
Node Exporter
Monitoring Docker containe
Not secure | 18.181.79.10:9090/targets?search=
Prometheus
Alerts
Graph
Status
Help
Targets
All
Unhealthy
Collapse All
Filter by endpoint or labels
node (2/2 up)
show less
Endpoint
State
Labels
Last Scrape
Scrape Duration
Error
http://35.78.123.109:9100/metrics
UP
instance="35.78.123.109:9100"
job="node"
2.647s ago
13.093ms
http://35.78.123.109:8080/metrics
UP
instance="35.78.123.109:8080"
job="node"
11.676s ago
51.571ms
ENG
IN
10:39
24-03-2023