

```
54.91.22.201 [ec2-user]
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split Multitasking Tuning Packages Settings Help

Quick connect...
54.91.22.201 [ec2-user]
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split Multitasking Tuning Packages Settings Help

[ec2-user@ip-172-31-44-24 ~]$ sudo -i
[ec2-user@ip-172-31-44-24 ~]$ sudo -i
[ec2-user@ip-172-31-44-24 ~]$ sudo yum update -y
Last metadata expiration check: 0:00:30 ago on Fri Feb 16 09:11:49 2024.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-44-24 ~]$ wget https://github.com/prometheus/prometheus/releases/download/v2.38.0/prometheus-2.38.0-linux-amd64.tar.gz
2024-02-16 09:12:52 -- https://github.com/prometheus/prometheus/releases/download/v2.38.0/prometheus-2.38.0-linux-amd64.tar.gz
Resolving github.com (github.com)... 159.99.114.6
Connecting to github.com (github.com)[159.99.114.6]:443... connected.
HTTP request sent, awaiting response... 302 found
location: https://objects.githubusercontent.com/github-production-release-asset-2e65be/6838921/803fc51b-dbf2-4ca0-9101-f3a0b687ed77X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAVCOTLSAS3PK8ZAS2F2624021632AS-east-152f332fawd_request&X-Amz-Date=20240216101253Z&X-Amz-Expires=1000&X-Amz-Signature=28d23e35362c117bc07283627f64f672e7905432e118a0e46c491af436&X-Amz-SignedHeaders=shest6actor_id=60key_id=60key_id=60389216response-content-disposition=application%2Foctet-stream
[ec2-user@ip-172-31-44-24 ~]$ tar -xvf prometheus-2.38.0-linux-amd64.tar.gz
prometheus-2.38.0-linux-amd64/
prometheus-2.38.0-linux-amd64/console/
prometheus-2.38.0-linux-amd64/console/index.html.example
prometheus-2.38.0-linux-amd64/console/node-cpu.html
prometheus-2.38.0-linux-amd64/console/node-disk.html
prometheus-2.38.0-linux-amd64/console/node-overview.html
prometheus-2.38.0-linux-amd64/console/node.html
prometheus-2.38.0-linux-amd64/console/prometheus-overview.html
prometheus-2.38.0-linux-amd64/console/prometheus.html
prometheus-2.38.0-linux-amd64/console/libraries/prom.lib
prometheus-2.38.0-linux-amd64/console/libraries/prometheus.yml
prometheus-2.38.0-linux-amd64/LICENSE
prometheus-2.38.0-linux-amd64/prometheus
prometheus-2.38.0-linux-amd64/promtool
[ec2-user@ip-172-31-44-24 ~]$ ls
prometheus-2.38.0-linux-amd64 prometheus-2.38.0-linux-amd64.tar.gz
[ec2-user@ip-172-31-44-24 ~]$ cd prometheus-2.38.0-linux-amd64/
[ec2-user@ip-172-31-44-24 prometheus-2.38.0-linux-amd64]$ ls
LICENSE NOTICE console libraries consoles prometheus.yml promtool
[ec2-user@ip-172-31-44-24 prometheus-2.38.0-linux-amd64]$ cat prometheus.yml
# my global config
global:
  scrape_interval: 15s # Set the scrape interval to every 15 seconds. Default is every 1 minute.
  evaluation_interval: 15s # Evaluate rules every 15 seconds. The default is every 1 minute.
  # scrape_timeout is set to the global default (10s).

# Alertmanager configuration
alerting:
  alertmanagers:
    - static_configs:
      - targets:
        # - alertmanager:9093

# Load rules once and periodically evaluate them according to the global 'evaluation_interval'.
rule_files:
  # - "first_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'
    # scheme defaults to 'http'.

    static_configs:
      - targets: ["localhost:9090"]
[ec2-user@ip-172-31-44-24 prometheus-2.38.0-linux-amd64]$ cd ..
```

```
54.91.22.201 [ec2-user]
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Session Servers Tools Games Sessions View Split Multitasking Tuning Packages Settings Help

Quick connect...
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prometheus-2.38.0-linux-amd64/console/libraries/prom.lib
prometheus-2.38.0-linux-amd64/prometheus.yml
prometheus-2.38.0-linux-amd64/LICENSE
prometheus-2.38.0-linux-amd64/prometheus
prometheus-2.38.0-linux-amd64/promtool
[ec2-user@ip-172-31-44-24 ~]$ ls
prometheus-2.38.0-linux-amd64 prometheus-2.38.0-linux-amd64.tar.gz
[ec2-user@ip-172-31-44-24 ~]$ cd prometheus-2.38.0-linux-amd64/
[ec2-user@ip-172-31-44-24 prometheus-2.38.0-linux-amd64]$ ls
LICENSE NOTICE console libraries consoles prometheus.yml promtool
[ec2-user@ip-172-31-44-24 prometheus-2.38.0-linux-amd64]$ cat prometheus.yml
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  evaluation_interval: 15s # Evaluate rules every 15 seconds. The default is every 1 minute.
  # scrape_timeout is set to the global default (10s).

# Alertmanager configuration
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  alertmanagers:
    - static_configs:
      - targets:
        # - alertmanager:9093

# Load rules once and periodically evaluate them according to the global 'evaluation_interval'.
rule_files:
  # - "first_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'
    # scheme defaults to 'http'.

    static_configs:
      - targets: ["localhost:9090"]
[ec2-user@ip-172-31-44-24 prometheus-2.38.0-linux-amd64]$ cd ..
```

```
54.91.22.201 (ec2-user)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Servers View Split Multitask Tunneling Packages Settings Help

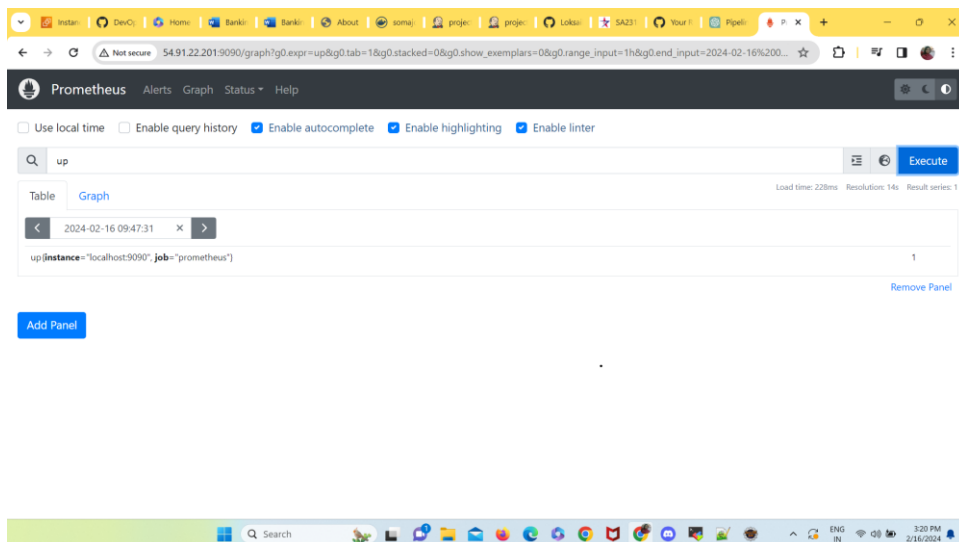
Quick connect:
- Name
- ash
- bash_input
- bash_profile
- admin

Feb 16 09:24:47 ip-172-31-44-24.ec2.internal prometheus[2905]: ts=2024-02-16T09:24:47.766Z caller=head.go:790 level=info component=tssdb msg="MML replay comp
Feb 16 09:24:47 ip-172-31-44-24.ec2.internal prometheus[2905]: ts=2024-02-16T09:24:47.769Z caller=main.go:1045 level=info fs_type=XFS_SUPER_MAGIC
Feb 16 09:24:47 ip-172-31-44-24.ec2.internal prometheus[2905]: ts=2024-02-16T09:24:47.769Z caller=main.go:1046 level=info msg="SDB started"
Feb 16 09:24:47 ip-172-31-44-24.ec2.internal prometheus[2905]: ts=2024-02-16T09:24:47.769Z caller=main.go:1229 level=info msg="Loading configuration file" f
Feb 16 09:24:47 ip-172-31-44-24.ec2.internal prometheus[2905]: ts=2024-02-16T09:24:47.774Z caller=main.go:1266 level=info msg="Completed loading of configura
Feb 16 09:24:47 ip-172-31-44-24.ec2.internal prometheus[2905]: ts=2024-02-16T09:24:47.774Z caller=main.go:1089 level=info msg="Server is ready to receive web
Feb 16 09:24:47 ip-172-31-44-24.ec2.internal prometheus[2905]: ts=2024-02-16T09:24:47.774Z caller=manager.go:1012 level=info component="rule manager" msg="St
[lines 1-21/21 (END)]

[root@ip-172-31-44-24 ~]# ls
prometheus-2.38.0-linux-amd64 prometheus-2.48.0-rc.0-linux-amd64 prometheus-2.49.0-rc.1-linux-amd64.tar.gz
prometheus-2.38.0-linux-amd64.tar.gz prometheus-2.48.0-rc.0-linux-amd64.tar.gz
[root@ip-172-31-44-24 ~]# cd prometheus-2.48.0-rc.0-linux-amd64/
[root@ip-172-31-44-24 prometheus-2.48.0-rc.0-linux-amd64]# ls
LICENSE NOTICE console_libraries console prometheus prometheus.yml pruntool
[root@ip-172-31-44-24 prometheus-2.48.0-rc.0-linux-amd64]# vi prometheus
[root@ip-172-31-44-24 prometheus-2.48.0-rc.0-linux-amd64]# vi prometheus.yml
[root@ip-172-31-44-24 prometheus-2.48.0-rc.0-linux-amd64]# systemctl restart prometheus
[root@ip-172-31-44-24 prometheus-2.48.0-rc.0-linux-amd64]# systemctl status prometheus
● prometheus.service - Prometheus Server
   Loaded: loaded (/etc/systemd/system/prometheus.service; disabled; preset: disabled)
   Active: active (running) since Fri 2024-02-16 10:25:57 UTC; 33s ago
     Docs: https://prometheus.io/docs/introduction/overview/
   Main PID: 4606 (prometheus)
     Tasks: 6 (limit: 1114)
    Memory: 27.0M
       CPU: 11ms
   CGroup: /system.slice/prometheus.service
           └─4606 /root/prometheus-2.48.0-rc.0-linux-amd64/prometheus --config.file=/root/prometheus-2.48.0-rc.0-linux-amd64/prometheus.yml

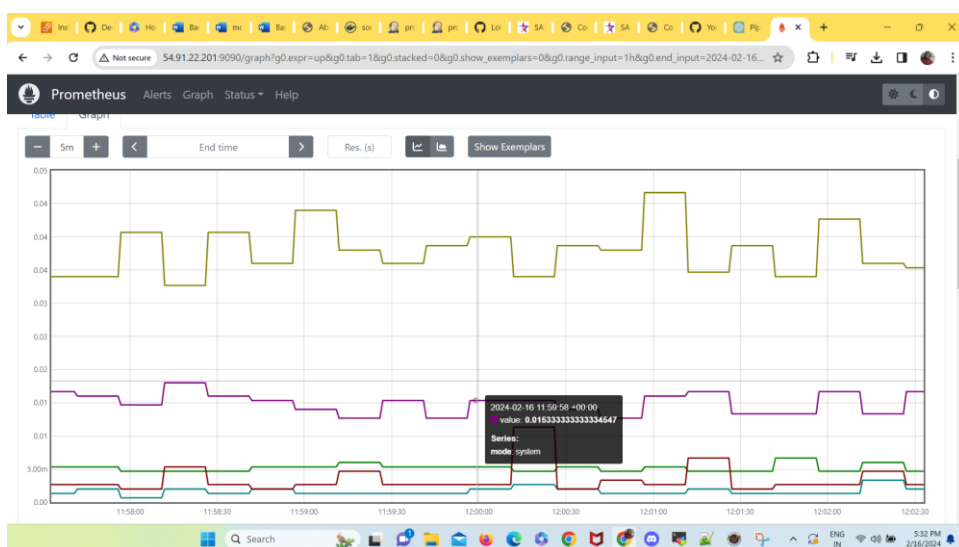
Feb 16 10:25:57 ip-172-31-44-24.ec2.internal prometheus[4606]: ts=2024-02-16T10:25:57.737Z caller=rules_config.go:277 level=info component=mb msg="TLS is disa
Feb 16 10:25:57 ip-172-31-44-24.ec2.internal prometheus[4606]: ts=2024-02-16T10:25:57.767Z caller=head.go:761 level=info component=tssdb msg="MML segment load
Feb 16 10:25:57 ip-172-31-44-24.ec2.internal prometheus[4606]: ts=2024-02-16T10:25:57.767Z caller=head.go:761 level=info component=tssdb msg="MML segment load
Feb 16 10:25:57 ip-172-31-44-24.ec2.internal prometheus[4606]: ts=2024-02-16T10:25:57.767Z caller=head.go:790 level=info component=tssdb msg="MML replay comp
Feb 16 10:25:57 ip-172-31-44-24.ec2.internal prometheus[4606]: ts=2024-02-16T10:25:57.770Z caller=main.go:1045 level=info fs_type=XFS_SUPER_MAGIC
Feb 16 10:25:57 ip-172-31-44-24.ec2.internal prometheus[4606]: ts=2024-02-16T10:25:57.770Z caller=main.go:1046 level=info msg="SDB started"
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Feb 16 10:25:57 ip-172-31-44-24.ec2.internal prometheus[4606]: ts=2024-02-16T10:25:57.775Z caller=manager.go:1012 level=info component="rule manager" msg="St
[lines 1-21/21 (END)]

[root@ip-172-31-44-24 prometheus-2.48.0-rc.0-linux-amd64]#
```

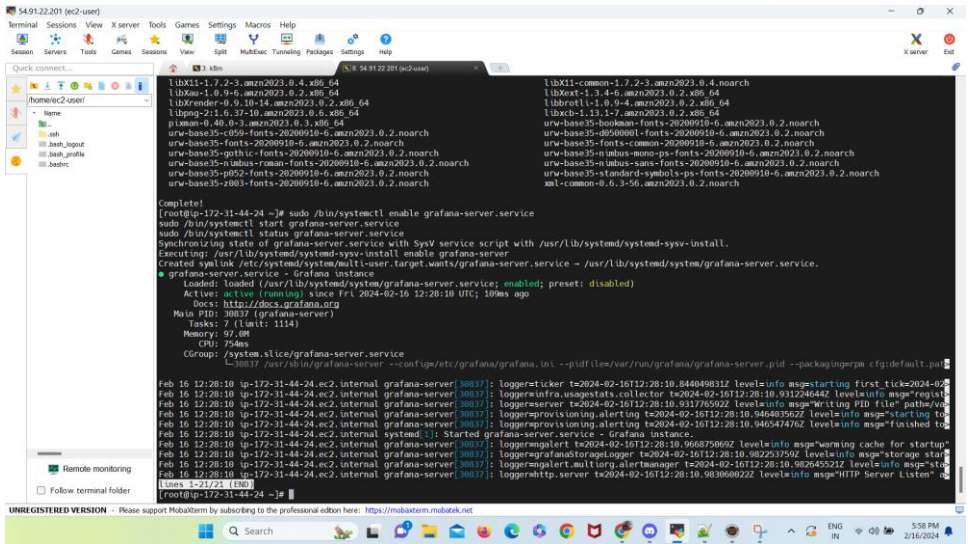


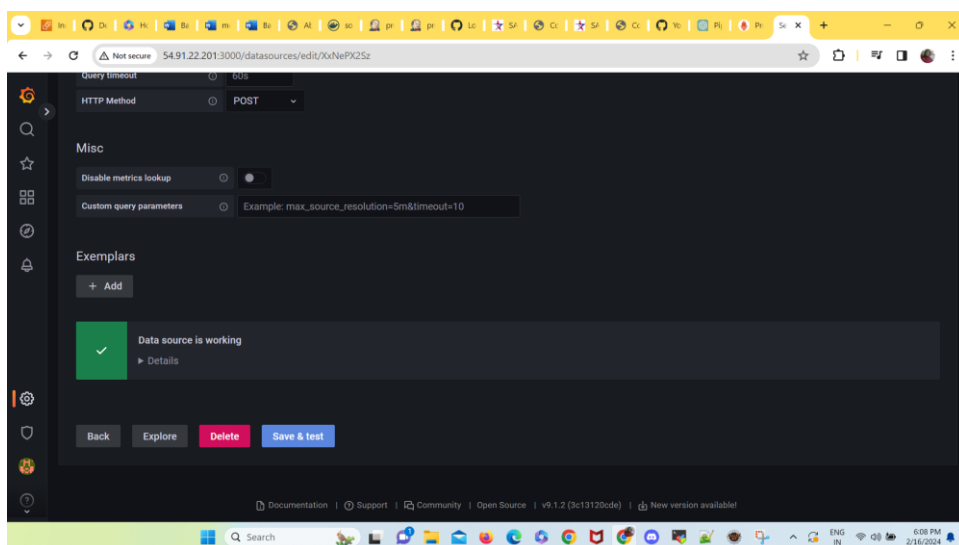
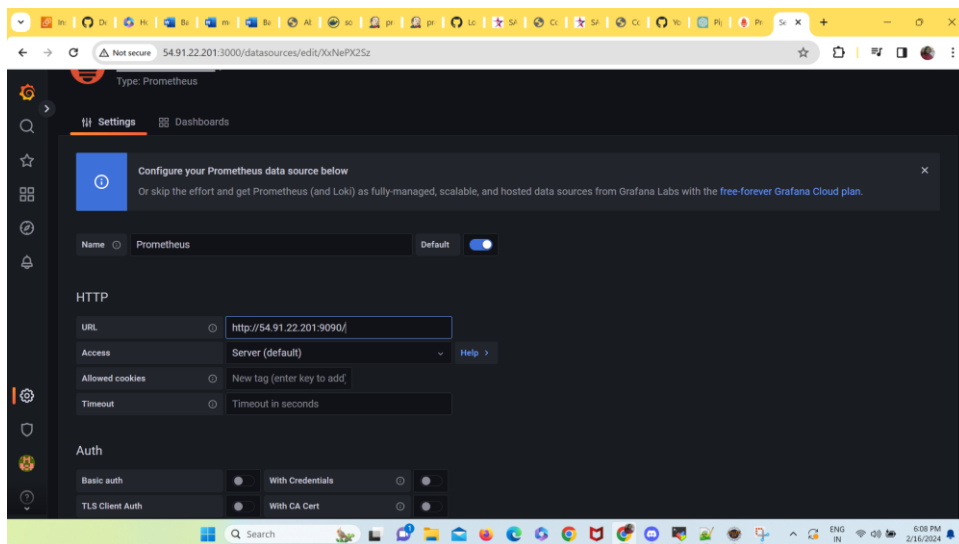
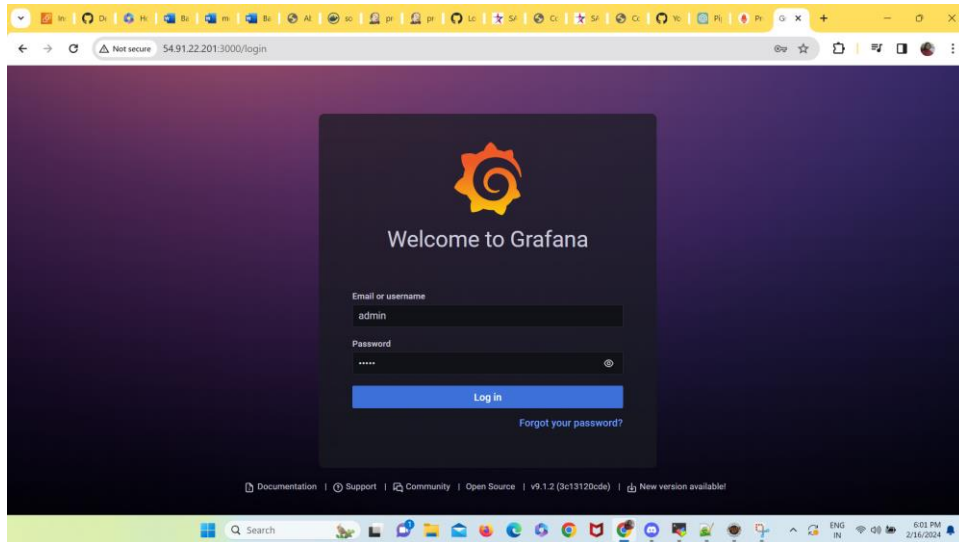
Browser window showing Prometheus interface. The URL bar shows a query: `up{instance="localhost:9090", job="prometheus"}`. The interface displays a table with one row: `up{instance="localhost:9090", job="prometheus"}` with a value of 1. The interface includes a search bar, a "Graph" tab, and a "Remove Panel" button.

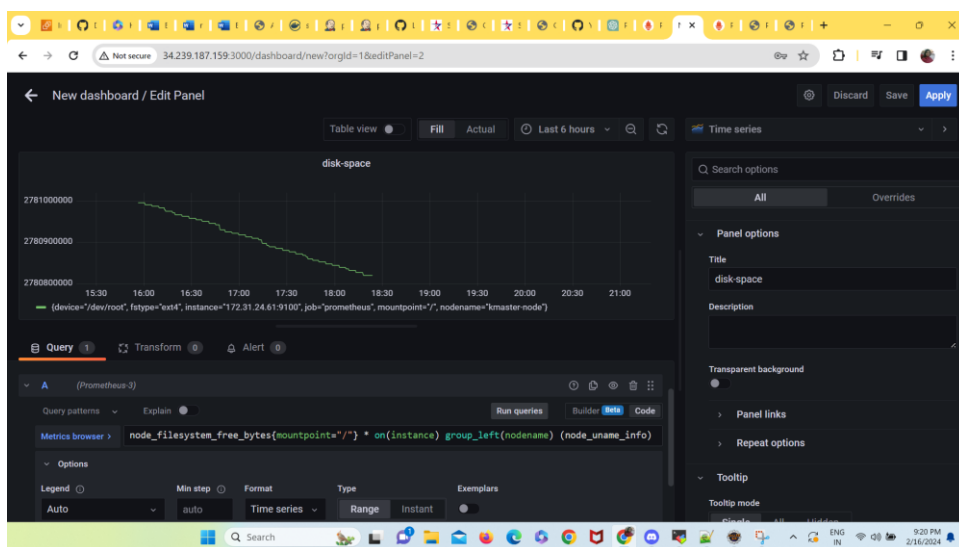
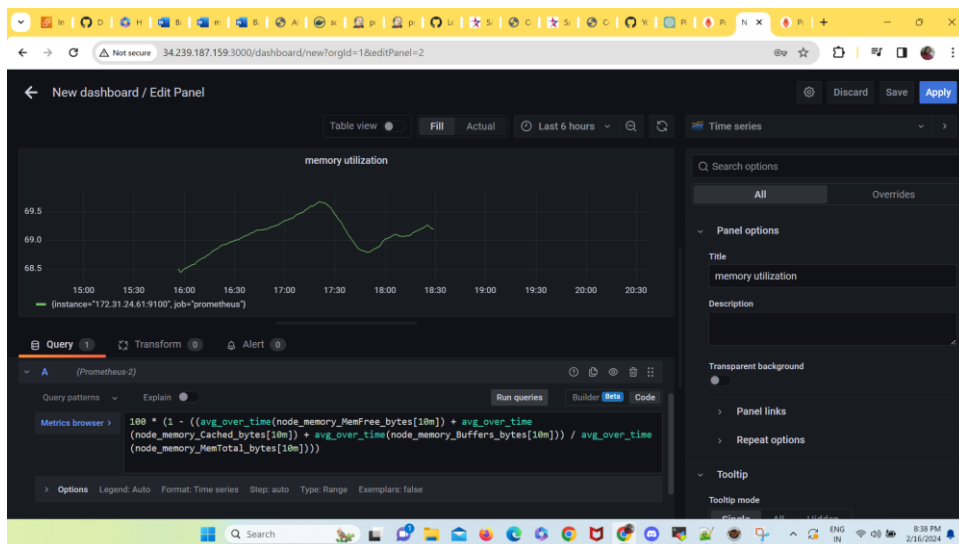
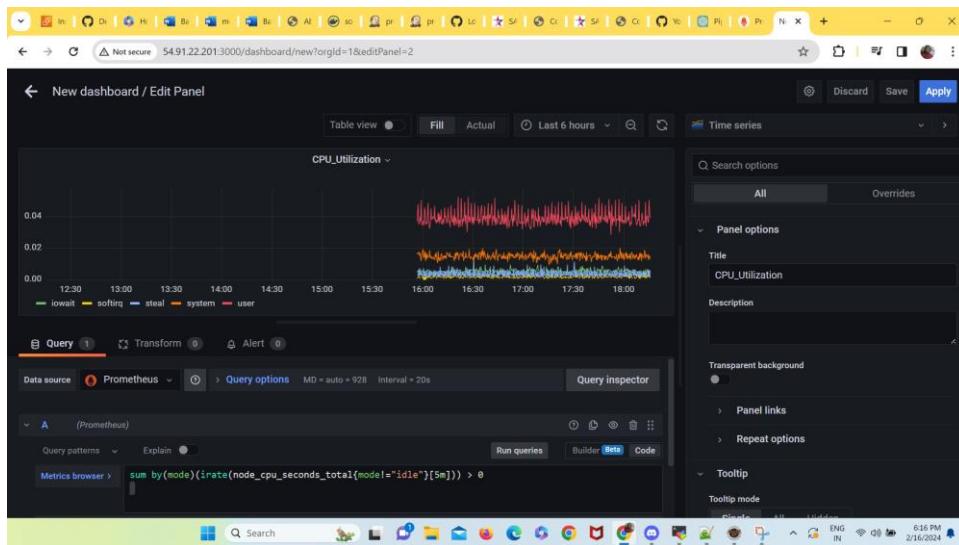
Browser window showing Prometheus interface. The URL bar shows a query: `up{instance="172.31.24.61:9100", job="prometheus"}`. The interface displays a table with two rows: `up{instance="172.31.24.61:9100", job="prometheus"}` with a value of 1, and `up{instance="localhost:9090", job="prometheus"}` with a value of 1. The interface includes a search bar, a "Graph" tab, and a "Remove Panel" button.



NAME	DESIRED	CURRENT	READY	UP-TO-DATE	AVAILABLE	NODE SELECTOR	AGE
daemonset.apps/cadvisor	2	2	0	2	0	<none>	3h2m
daemonset.apps/kube-proxy	3	3	3	3	3	kubernetes.io/os=linux	7d10h
daemonset.apps/vrops-cadvisor	2	2	0	2	0	<none>	31m







```
groups:
- name: cpu_alerts
  rules:
  - alert: HighNodeCPUload
    expr: (sum by (instance)(irate(node_cpu_seconds_total{mode!="idle"}[5m]))) / (count by (instance) (node_cpu_seconds_total)) * 100 > 70
    for: 5m
    labels:
      severity: warning
    annotations:
      summary: "High node CPU utilization ({{ $value }}%) detected"
      description: "Node {{ $labels.instance }} has CPU utilization above 70% for the last 5 minutes."
```

nsions View Split MultiExec Tunneling Packages Settings Help

```
10. k8s
11. 52.90.209.75 (ec2-user)
alerting:
  alertmanagers:
  - static_configs:
    - targets:
      - alertmanager:9093
~
~
```