#### 1. Enable Prometheus or Observability, Dashboard, and DNS

```
/d/Jenkins$ microk8s enable prometheus dashboard dns
Infer repository core for addon prometheus
Infer repository core for addon dashboard
Infer repository core for addon dns
WARNING: Do not enable or disable multiple addons in one command.
         This form of chained operations on addons will be DEPRECATED in the future.
         Please, enable one addon at a time: 'microk8s enable <addon>
<code>DEPRECATION</code> <code>WARNING:</code> 'prometheus' is deprecated and will soon be removed. <code>Please</code> use 'observ
Infer repository core for addon observability
Addon core/dns is already enabled
Addon core/helm3 is already enabled
Addon core/hostpath-storage is already enabled
Enabling observability
Release "kube-prom-stack" does not exist. Installing it now.
NAME: kube-prom-stack
LAST DEPLOYED: Wed Jul 12 09:44:24 2023
NAMESPACE: observability
STATUS: deployed
REVISION: 1
NOTES:
kube-prometheus-stack has been installed. Check its status by running:
 kubectl --namespace observability get pods -1 "release=kube-prom-stack"
Visit https://github.com/prometheus-operator/kube-prometheus for instructions on how to crea
Release "loki" does not exist. Installing it now.
NAME: loki
LAST DEPLOYED: Wed Jul 12 09:47:17 2023
NAMESPACE: observability
STATUS: deployed
REVISION: 1
NOTES:
The Loki stack has been deployed to your cluster. Loki can now be added as a datasource in G
```

#### **Full Output:**

 $ron@DESKTOP\text{-}JLEGGJC:/mnt/d/Jenkins\$\ microk8s\ enable\ prometheus\ dashboard\ dns$ 

Infer repository core for addon prometheus

Infer repository core for addon dashboard

Infer repository core for addon dns

WARNING: Do not enable or disable multiple addons in one command.

This form of chained operations on addons will be DEPRECATED in the future.

Please, enable one addon at a time: 'microk8s enable <addon>'

DEPRECATION WARNING: 'prometheus' is deprecated and will soon be removed. Please use 'observability' instead.

Infer repository core for addon observability

Addon core/dns is already enabled

Addon core/helm3 is already enabled

Addon core/hostpath-storage is already enabled

Enabling observability

Release "kube-prom-stack" does not exist. Installing it now.

NAME: kube-prom-stack

LAST DEPLOYED: Wed Jul 12 09:44:24 2023

NAMESPACE: observability

STATUS: deployed REVISION: 1 NOTES: kube-prometheus-stack has been installed. Check its status by running: kubectl --namespace observability get pods -l "release=kube-prom-stack"

Visit https://github.com/prometheus-operator/kube-prometheus for instructions on how to create & configure Alertmanager and Prometheus instances using the Operator.

Release "loki" does not exist. Installing it now.

NAME: loki

LAST DEPLOYED: Wed Jul 12 09:47:17 2023

NAMESPACE: observability

STATUS: deployed REVISION: 1 NOTES:

The Loki stack has been deployed to your cluster. Loki can now be added as a datasource in

Grafana.

See http://docs.grafana.org/features/datasources/loki/ for more detail.

Release "tempo" does not exist. Installing it now.

NAME: tempo

LAST DEPLOYED: Wed Jul 12 09:47:53 2023

NAMESPACE: observability

STATUS: deployed REVISION: 1 TEST SUITE: None

[sudo] password for ron:

Note: the observability stack is setup to monitor only the current nodes of the MicroK8s cluster. For any nodes joining the cluster at a later stage this addon will need to be set up again.

Observability has been enabled (user/pass: admin/prom-operator)
Addon core/dashboard is already enabled
Addon core/dns is already enabled
ron@DESKTOP-JLEGGJC:/mnt/d/Jenkins\$

2. Check or monitor if Prometheus jobs are enabled

microk8s kubectl get services -n observability

ron@DESKTOP-JLEGGJC:/mnt/d/Jenkins\$ microl	k8s kubectl g	get services -n ob	servability	
NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)
AGE				
kube-prom-stack-prometheus-node-exporter	ClusterIP	10.152.183.76	<none></none>	9100/TCP
49m	61	40 450 403 464		0000 /700
kube-prom-stack-kube-prome-alertmanager	ClusterIP	10.152.183.161	<none></none>	9093/TCP
49m kube-prom-stack-grafana	ClusterIP	10.152.183.96	<none></none>	80/TCP
49m	Clusterip	10.132.163.90	(Hone)	80/ TCP
kube-prom-stack-kube-prome-operator	ClusterIP	10.152.183.210	<none></none>	443/TCP
49m	CIUSCCI II	10.132.103.210	(IIOIIC)	4437 161
kube-prom-stack-kube-prome-prometheus	ClusterIP	10.152.183.212	<none></none>	9090/TCP
49m				
kube-prom-stack-kube-state-metrics	ClusterIP	10.152.183.43	<none></none>	8080/TCP
49m				
alertmanager-operated	ClusterIP	None	<none></none>	9093/TCP,9094/TCP,9094/UDP
48m				
prometheus-operated	ClusterIP	None	<none></none>	9090/TCP
48m	61			3400 /TCD
loki-headless	ClusterIP	None	<none></none>	3100/TCP
48m loki-memberlist	ClusterIP	None	<none></none>	7946/TCP
48m	Clusterip	None	Chones	7940/ TCP
loki	ClusterIP	10.152.183.203	<none></none>	3100/TCP
48m	oraștei îi	10,132,103.203	1101127	3100,101
tempo	ClusterIP	10.152.183.189	<none></none>	3100/TCP,16687/TCP,16686/TCP
47m				

# microk8s kubectl get pods -n observability

microkos kabeeti get poas in observability				
ron@DESKTOP-JLEGGJC:/mnt/d/Jenkins\$ microk8s kubectl get	pods -n	observability		
NAME	READY	STATUS	RESTARTS	AGE
kube-prom-stack-kube-prome-operator-64ffd55b77-mg285	1/1	Running	0	50m
tempo-0	2/2	Running	0	48m
kube-prom-stack-kube-state-metrics-6c586bf4c8-864tn	1/1	Running	0	50m
alertmanager-kube-prom-stack-kube-prome-alertmanager-0	2/2	Running	1 (47m ago)	49m
loki-0	1/1	Running	0	49m
loki-promtail-d82wl	1/1	Running	0	49m
prometheus-kube-prom-stack-kube-prome-prometheus-0	2/2	Running	0	49m
kube-prom-stack-grafana-6c47f548d6-hb4wb	3/3	Running	3 (37m ago)	50m
kube-prom-stack-prometheus-node-exporter-wg46h	0/1	CreateContainerError	0	50m
ron@DESKTOP-JLEGGJC:/mnt/d/Jenkins\$				

Error was failed to generate spec: path "/" is mounted on "/" but it is not a shared or slave mount container error node exporter

Then execute the command below to correct the error

mount --make-rshared /

Then again check all, notice that all objects are successfully ran

```
oot@DESKTOP-JLEGGJC:~# kubectl get all -n observability
ood/kube-prom-stack-kube-state-metrics-77d7bc94d5-p9xjg
                                                                                               24m
                                                                      Running
ood/kube-prom-stack-kube-prome-operator-57f9bcd99b-8w74l
                                                                      Running
                                                                                               24m
ood/alertmanager-kube-prom-stack-kube-prome-alertmanager-0
                                                                      Running
ood/prometheus-kube-prom-stack-kube-prome-prometheus-0
                                                                      Running
                                                                                               23m
ood/loki-promtail-6xbcl
                                                                      Running
                                                                                               21m
od/loki-0
                                                                      Running
                                                                                               21m
                                                                                               24m
ood/kube-prom-stack-grafana-58cb7d8f66-xwbrm
                                                                                2 (18m ago)
                                                                      Running
ood/kube-prom-stack-prometheus-node-exporter-mzgvn
                                                                      Running
                                                                                               24m
                                                                CLUSTER-IP
                                                                                  EXTERNAL-IP
                                                                                                                              AGE
service/kube-prom-stack-prometheus-node-exporter
                                                   ClusterIP
                                                                10.152.183.198
                                                                                                9100/TCP
                                                                                 <none>
                                                                                                                              25m
service/kube-prom-stack-kube-state-metrics
                                                    ClusterIP
                                                                10.152.183.120
                                                                                  <none>
                                                                                                8080/TCP
                                                                                                                              25m
service/kube-prom-stack-grafana
                                                    ClusterIP
                                                                10.152.183.200
                                                                                  <none>
                                                                                                80/TCP
                                                                                                                              25m
service/kube-prom-stack-kube-prome-operator
                                                    ClusterIP
                                                                10.152.183.246
                                                                                  <none>
                                                                                                443/TCP
                                                                                                                              25m
service/kube-prom-stack-kube-prome-prometheus
                                                    ClusterIP
                                                                10.152.183.52
                                                                                  <none>
                                                                                                9090/TCP,8080/TCP
                                                                                                                              25m
service/kube-prom-stack-kube-prome-alertmanager
                                                    ClusterIP
                                                                10.152.183.117
                                                                                 <none>
                                                                                                9093/TCP,8080/TCP
                                                                                                                              25m
service/alertmanager-operated
                                                    ClusterIP
                                                                                                9093/TCP,9094/TCP,9094/UDP
                                                                                                                              24m
                                                                None
service/prometheus-operated
                                                    ClusterIP
                                                                None
                                                                                                9090/TCP
                                                                                                                              24m
                                                                                  <none>
service/loki-headless
                                                    ClusterIP
                                                                                                3100/TCP
                                                                                                                              21m
                                                                                  <none>
service/loki-memberlist
                                                    ClusterIP
                                                                                                7946/TCP
                                                                                                                              21m
                                                                10.152.183.109
                                                                                                3100/TCP
service/loki
                                                    ClusterIP
                                                                                                                              21m
                                                                     CURRENT
                                                                               READY
                                                                                       UP-TO-DATE
                                                                                                     AVAILABLE
daemonset.apps/loki-promtail
                                                                                                                  <none>
daemonset.apps/kube-prom-stack-prometheus-node-exporter
                                                                                                                 kubernetes.io/os=1
                                                       READY
                                                               UP-TO-DATE
                                                                            AVAILABLE
                                                                                         AGE
deployment.apps/kube-prom-stack-kube-state-metrics
                                                                                         24m
                                                       1/1
deployment.apps/kube-prom-stack-kube-prome-operator
                                                                                         24m
                                                       1/1
                                                                                         24m
deployment.apps/kube-prom-stack-grafana
                                                                  DESTRED
                                                                            CURRENT
                                                                                      READY
                                                                                               AGE
replicaset.apps/kube-prom-stack-kube-state-metrics-77d7bc94d5
                                                                                               24m
eplicaset.apps/kube-prom-stack-kube-prome-operator-57f9bcd99b
                                                                                               24m
replicaset.apps/kube-prom-stack-grafana-58cb7d8f66
                                                                                               24m
                                                                         READY
                                                                                 AGE
statefulset.apps/alertmanager-kube-prom-stack-kube-prome-alertmanager
                                                                                  24m
statefulset.apps/prometheus-kube-prom-stack-kube-prome-prometheus
statefulset.apps/loki
oot@DESKTOP-JLEGGJC:~#
```

3. Execute below command for port forwarding prometheus microk8s kubectl port-forward -n observability service/kube-prom-stack-kube-prome-prometheus --address 0.0.0.0 9090:9090

#### sample:

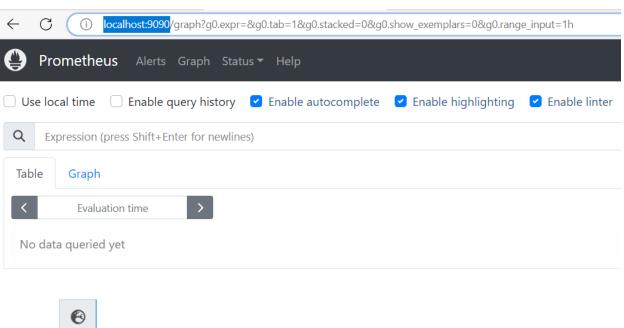
root@DESKTOP-JLEGGJC:~# microk8s kubectl port-forward -n observability service Forwarding from 0.0.0.0:9090 -> 9090

4. After executing port forward for Prometheus, it will continue executing until Ctrl + C but we don't have intention of exiting and therefore open a new command prompt window and execute below command for port forwarding Grafana microk8s kubectl port-forward -n observability service/kube-prom-stack-grafana --address 0.0.0.0 3000:80

#### Sample:

root@DESKTOP-JLEGGJC:~# microk8s kubectl port-forward -n observability se Forwarding from 0.0.0.0:3000 -> 3000

5. Open link <a href="http://localhost:9090/">http://localhost:9090/</a> in browser. It will go to Prometheus page Sample:



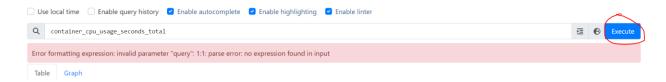
Then click beside Blue Execute button to check available expressions and choose an expression



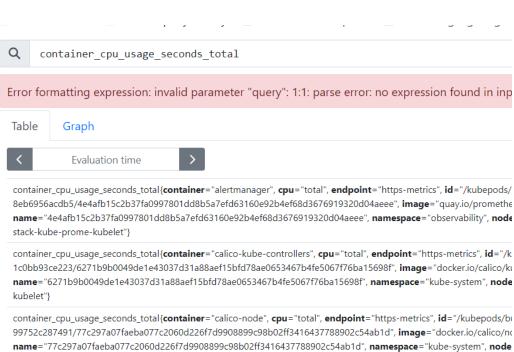
# Metrics Explorer

```
cluster_verb_scope:apiserver_request_slo_duration_seconds_count:in
cluster_verb_scope_le:apiserver_request_slo_duration_seconds_bucke
cluster_verb_scope_le:apiserver_request_slo_duration_seconds_bucke
code:apiserver_request_total:increase30d
code_resource:apiserver_request_total:rate5m
code_verb:apiserver_request_total:increase1h
code_verb:apiserver_request_total:increase30d
container_cpu_cfs_periods_total
container_cpu_cfs_throttled_periods_total
container_cpu_usage_seconds_total
container_last_seen
container_memory_cache
container_memory_failcnt
container_memory_failures_total
container_memory_max_usage_bytes
container_memory_rss
container_memory_usage_bytes
container_memory_working_set_bytes
```

# After choosing, click Execute button



Since we are in Table tab then we can see data

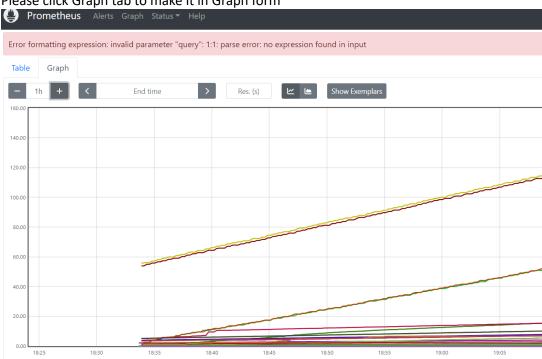


 $container\_cpu\_usage\_seconds\_total \\ \textbf{(container} = "config-reloader", \textbf{cpu} = "total", \textbf{endpoint} = "https-metrics", \textbf{id} = "/kubepod = "total", \textbf{endpoint} = "https-metrics", \textbf{endpoint} = "https-met$  $d1662f5aa535/17409eb20e9f6ab1147f6933f3c48c18cdff523b400c5c895cbb6b26cc3a29c3", \\ image="quay.io/prometheus statement of the content of the$ metrics\_path="/metrics/cadvisor", name="17409eb20e9f6ab1147f6933f3c48c18cdff523b400c5c895cbb6b26cc3a29c3", I

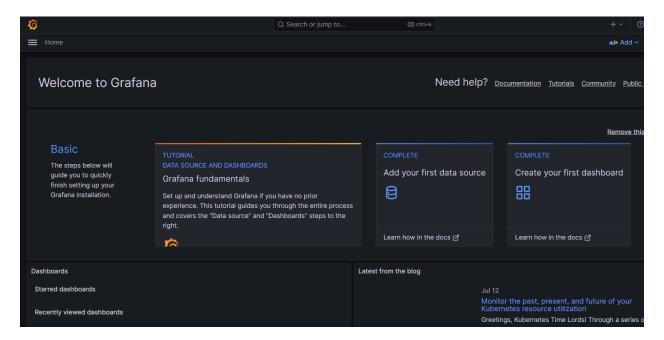
container\_cpu\_usage\_seconds\_total{container="config-reloader", cpu="total", endpoint="https-metrics", id="/kubepod 8eb6956acdb5/88445cfd971a8b41d7bc2b3418ddb222e6a7beedd54662e4a97ad90b8d32a275", image="quay.io/promet metrics\_path="/metrics/cadvisor", name="88445cfd971a8b41d7bc2b3418ddb222e6a7beedd54662e4a97ad90b8d32a27 alertmanager-0". service="kube-prom-stack-kube-prome-kubelet"}

Please click Graph tab to make it in Graph form

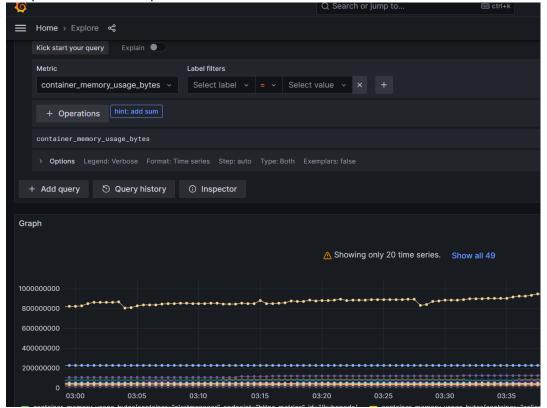
prometheus-0", service="kube-prom-stack-kube-prome-kubelet"}



6. Open link <a href="http://localhost:3000/">http://localhost:3000/</a> in browser. It will go to Grafana page. Please use the credentials from step 1. You will go to Grafana homepage



Sample Prometheus Graph:



7. Then initialize Selenium Grid via Kubernetes with namespace selenium so that we can properly check the graph in Grafana connected to Prometheus data source

Selenium Grid Kubernetes initializations:

microk8s kubectl create namespace selenium

microk8s kubectl create deployment selenium-hub --image selenium/hub:3.9.0 --port 4444 -- namespace selenium

microk8s kubectl expose deployment selenium-hub --type=ClusterIP --namespace selenium microk8s kubectl create deployment selenium-node-chrome --image selenium/node-

chrome:3.9.1 --namespace selenium

microk8s kubectl expose deployment selenium-node-chrome --type=ClusterIP --port 4444 -- namespace selenium

microk8s kubectl set env deployment/selenium-node-chrome --

env="HUB\_PORT\_4444\_TCP\_ADDR=selenium-hub" --env="HUB\_PORT\_4444\_TCP\_PORT=4444" -- namespace selenium

microk8s kubectl create deployment selenium-node-firefox --image selenium/node-firefox:3.9.1 -- namespace selenium

microk8s kubectl expose deployment selenium-node-firefox --type=ClusterIP --port 4444 -- namespace selenium

microk8s kubectl set env deployment/selenium-node-firefox --

env="HUB\_PORT\_4444\_TCP\_ADDR=selenium-hub" --env="HUB\_PORT\_4444\_TCP\_PORT=4444" -- namespace selenium

microk8s kubectl scale deployment --replicas 2 selenium-node-chrome --namespace selenium microk8s kubectl scale deployment --replicas 2 selenium-node-firefox --namespace selenium

and then port forward 4444 to see if Selenium Hub contains 2 nodes for Chrome and 2 nodes for Firefox

microk8s kubectl port-forward -n selenium service/selenium-hub --address 0.0.0.0 4444:4444

## Sample:

root@DESKTOP-JLEGGJC:~# microk8s kubectl port-forward -n selenium service/selenium-hub --address 0.0.0.0 4444:4444 Forwarding from 0.0.0.0:4444 -> 4444

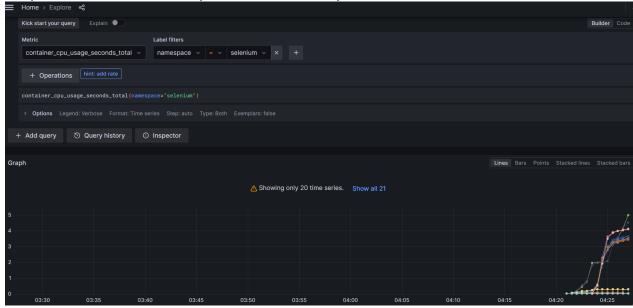
8. Check that the grid console is working and has 2 nodes chrome and 2 nodes firefox

Link: http://localhost:4444/grid/console



9. Check Grafana if can monitor selenium namespace

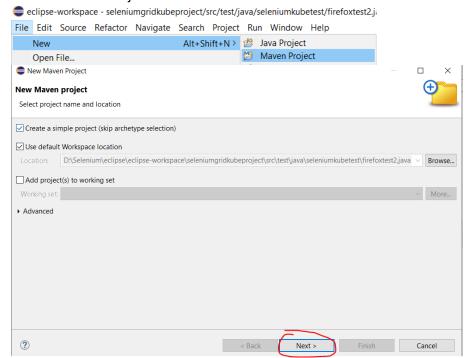
Sample Grafana Prometheus Graph for Selenium namespace

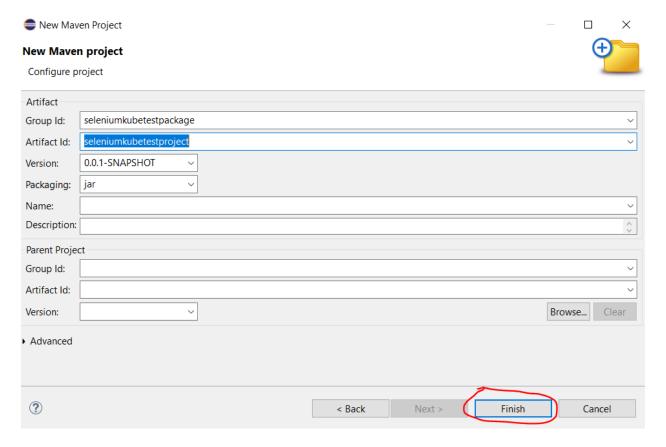


10. Then build a selenium project to test the selenium grids

Need to Specify a new Workspace folder.

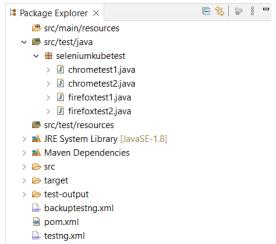
### Create a Maven Project





Note: Please see structure and codes below. Specify your own Project

#### Structure:



#### Codes:

# Pom.xml (for dependencies)

```
<modelVersion>4.0.0</modelVersion>
 <groupId>seleniummavengridpackage
 <artifactId>seleniummavengridproject</artifactId>
 <version>0.0.1-SNAPSHOT</version>
 <dependencies>
      <dependency>
            <groupId>org.seleniumhq.selenium
            <artifactId>selenium-java</artifactId>
            <version>3.8.0
      </dependency>
      <dependency>
            <groupId>org.testng
            <artifactId>testng</artifactId>
            <version>6.5.1
      </dependency>
      <dependency>
      <groupId>org.slf4j
      <artifactId>slf4j-api</artifactId>
      <version>1.7.5
      </dependency>
      <dependency>
      <groupId>org.slf4j
      <artifactId>slf4j-log4j12</artifactId>
      <version>1.7.5
      </dependency>
 </dependencies>
 <build>
      <plugins>
            <plugin>
                  <groupId>org.apache.maven.plugins
            <artifactId>maven-compiler-plugin</artifactId>
            <version>3.9.0
            <configuration>
                  <source>1.8</source>
                  <target>1.8</target>
            </configuration>
            </plugin>
            <plugin>
                  <groupId>org.apache.maven.plugins
            <artifactId>maven-surefire-plugin</artifactId>
            <version>2.20</version>
            <configuration>
                  <suiteXmlFiles>
                        <suiteXmlFile>testng.xml</suiteXmlFile>
                        <!--
<suiteXmlFile>src/main/resources/testng.xml</suiteXmlFile> -->
                  </suiteXmlFiles>
            </configuration>
            </plugin>
      </plugins>
 </build>
</project>
```

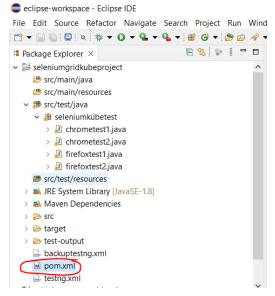
Testng.xml (Note: Parallelization may not work when executing pom.xml test in Jenkins)

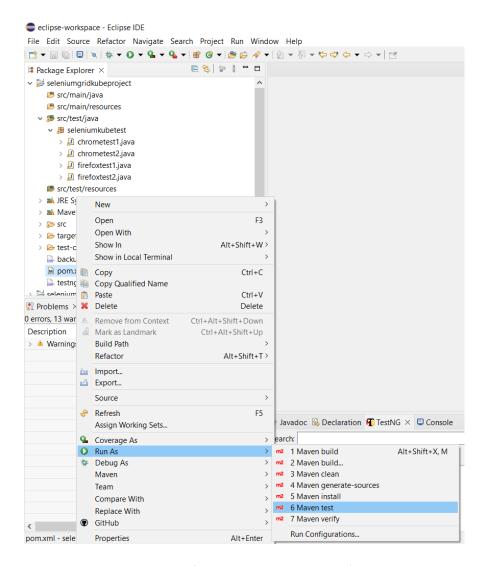
```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite parallel="classes" name="Suite">
  <test thread-count="4" parallel="classes" name="Test">
    <classes>
      <class name="seleniumkubetest.chrometest1"/>
      <class name="seleniumkubetest.chrometest2"/>
      <class name="seleniumkubetest.firefoxtest1"/>
      <class name="seleniumkubetest.firefoxtest2"/>
    </classes>
  </test> <!-- Test -->
</suite> <!-- Suite -->
chrometest1.java
package seleniumkubetest;
import org.testng.annotations.Test;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.concurrent.TimeUnit;
import org.openga.selenium.UnexpectedAlertBehaviour;
import org.openga.selenium.chrome.ChromeOptions;
import org.openqa.selenium.remote.CapabilityType;
import org.openqa.selenium.remote.RemoteWebDriver;
public class chrometest1 {
         @Test
         public void test1() throws MalformedURLException
         {
              ChromeOptions cap = new ChromeOptions();
              cap.setCapability(CapabilityType.UNEXPECTED ALERT BEHAVIOUR,
                       UnexpectedAlertBehaviour.IGNORE);
              RemoteWebDriver driver = new RemoteWebDriver(new
URL("http://localhost:4444/wd/hub"),cap);
              driver.manage().timeouts().implicitlyWait(180, TimeUnit.SECONDS);
              driver.get("http://yahoo.com");
              System.out.println("Chrome Title = " + driver.getTitle());
              driver.quit();
        }
}
chrometest2.java
package seleniumkubetest;
```

```
import org.testng.annotations.Test;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.concurrent.TimeUnit;
import org.openga.selenium.UnexpectedAlertBehaviour;
import org.openqa.selenium.chrome.ChromeOptions;
import org.openqa.selenium.remote.CapabilityType;
import org.openga.selenium.remote.RemoteWebDriver;
public class chrometest2 {
         @Test
         public void test2() throws MalformedURLException
               ChromeOptions cap = new ChromeOptions();
               cap.setCapability(CapabilityType.UNEXPECTED_ALERT_BEHAVIOUR,
                         UnexpectedAlertBehaviour.IGNORE);
               RemoteWebDriver driver = new RemoteWebDriver(new
URL("http://localhost:4444/wd/hub"),cap);
               driver.manage().timeouts().implicitlyWait(180, TimeUnit.SECONDS);
               driver.get("http://google.com");
               System.out.println("Chrome Title = " + driver.getTitle());
               driver.quit();
         }
}
firefoxtest1.java
package seleniumkubetest;
import org.testng.annotations.Test;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.concurrent.TimeUnit;
import org.openga.selenium.UnexpectedAlertBehaviour;
import org.openqa.selenium.firefox.FirefoxOptions;
import org.openqa.selenium.remote.CapabilityType;
import org.openqa.selenium.remote.RemoteWebDriver;
public class firefoxtest1 {
```

```
public void test3() throws MalformedURLException
               FirefoxOptions cap = new FirefoxOptions();
               cap.setCapability(CapabilityType.UNEXPECTED_ALERT_BEHAVIOUR,
                        UnexpectedAlertBehaviour.DISMISS);
               RemoteWebDriver driver = new RemoteWebDriver(new
URL("http://localhost:4444/wd/hub"),cap);
               driver.manage().timeouts().implicitlyWait(180, TimeUnit.SECONDS);
               driver.get("http://youtube.com");
               System.out.println("Firefox Title = " + driver.getTitle());
               driver.quit();
         }
}
firefoxtest2.java
package seleniumkubetest;
import org.testng.annotations.Test;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.concurrent.TimeUnit;
import org.openga.selenium.UnexpectedAlertBehaviour;
import org.openga.selenium.firefox.FirefoxOptions;
import org.openqa.selenium.remote.CapabilityType;
import org.openga.selenium.remote.RemoteWebDriver;
public class firefoxtest2 {
          @Test
          public void test4() throws MalformedURLException
               FirefoxOptions cap = new FirefoxOptions();
               cap.setCapability(CapabilityType.UNEXPECTED ALERT BEHAVIOUR,
                  UnexpectedAlertBehaviour.DISMISS);
               RemoteWebDriver driver = new RemoteWebDriver(new
URL("http://localhost:4444/wd/hub"),cap);
               driver.manage().timeouts().implicitlyWait(180, TimeUnit.SECONDS);
               driver.get("http://instagram.com");
               System.out.println("Firefox Title = " + driver.getTitle());
               driver.quit();
         }
}
```

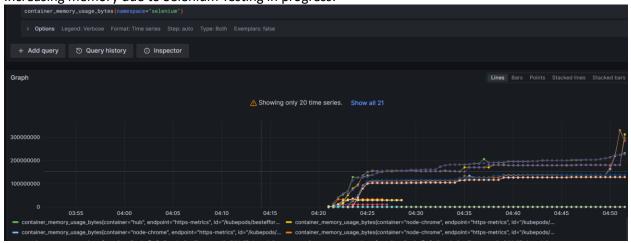
11. After creating project then test the project by right clicking pom.xml and Run as Maven test

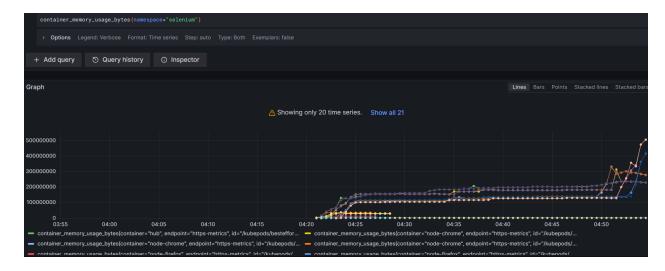




12. While testing, check the Grafana real-time monitoring (e.g. Container Memory)







After Testing completes

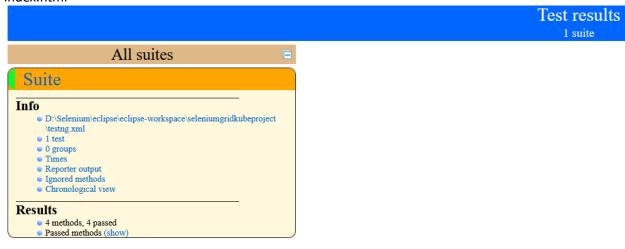


# 13. After Testing completes, notice that the build is successful

```
■ Console ×
<terminated > C:\Program Files\Java\jdk-17\bin\javaw.exe (13 Jul 2023, 4:55:55 am) [pid:
Jul 13, 2023 4:59:16 AM org.openqa.selenium.remote.ProtocolHands
INFO: Detected dialect: W3C
Firefox Title = Instagram
[INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time el
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] ------
[INFO] Total time: 03:29 min
[INFO] Finished at: 2023-07-13T04:59:27+08:00
```

14. Then go to <workspace directory>/project/target/surefire-reports and open both index.html and emailable-report.html to check the test results

index.html



## emailable-report.html

Test	Methods Passed	Scenario Passe	-	ped	# failed	ı	Total Time	Included Groups	Excluded Groups
Test	4		4	0	(	)	203.5 seconds		
	Class		Method		# of enarios		Start	Time (ms)	
		Te	st — passo	ed					
seleniun	nkubetest.chi	ometest1			1	1	689195362667	57371	
seleniun	nkubetest.chi	ometest2	test2		1	1	689195420039	25628	
seleniun	nkubetest.fire	efoxtest1	test3		1	1	689195445668	67057	
seleniun	nkubetest.fire	efoxtest2	test4		1	1	689195512726	53448	

# **Test**

seleniumkubetest.firefoxtest2:test4	
seleniumkubetest.firefoxtest1:test3	
seleniumkubetest.chrometest1:test1	

seleniumkubetest.chrometest2:test2

15. Then perform cleanup by Ctrl + C all port-forwards, logout to Grafana and disable dashboard and observability and delete selenium hub and node grids for firefox and chrome and delete selenium namespace

Selenium Cleanup scripts:

microk8s kubectl delete service selenium-node-chrome --namespace selenium microk8s kubectl delete service selenium-node-firefox --namespace selenium microk8s kubectl delete service selenium-hub --namespace selenium microk8s kubectl delete deployment selenium-node-chrome --namespace selenium microk8s kubectl delete deployment selenium-node-firefox --namespace selenium microk8s kubectl delete deployment selenium-hub --namespace selenium

Disable Dashboard, Observability, and DNS

microk8s disable dashboard observability dns
OR
microk8s disable dashboard
microk8s disable observability
microk8s disable dns

Sample Output for disabling Dashboard, Observability, and DNS:

root@DESKTOP-JLEGGJC:~# microk8s disable dashboard observability dns

Infer repository core for addon dashboard

Infer repository core for addon observability

Infer repository core for addon dns

WARNING: Do not enable or disable multiple addons in one command.

This form of chained operations on addons will be DEPRECATED in the future.

Please, disable one addon at a time: 'microk8s disable <addon>'

Disabling Dashboard

serviceaccount "kubernetes-dashboard" deleted

service "kubernetes-dashboard" deleted

secret "kubernetes-dashboard-certs" deleted

secret "kubernetes-dashboard-csrf" deleted

secret "kubernetes-dashboard-key-holder" deleted

configmap "kubernetes-dashboard-settings" deleted

role.rbac.authorization.k8s.io "kubernetes-dashboard" deleted

clusterrole.rbac.authorization.k8s.io "kubernetes-dashboard" deleted

rolebinding.rbac.authorization.k8s.io "kubernetes-dashboard" deleted

clusterrolebinding.rbac.authorization.k8s.io "kubernetes-dashboard" deleted

deployment.apps "kubernetes-dashboard" deleted

service "dashboard-metrics-scraper" deleted

deployment.apps "dashboard-metrics-scraper" deleted

Dashboard is disabled

Disabling observability

service "kube-prom-stack-kube-prome-kubelet" deleted

namespace "observability" deleted

Disabling DNS
Reconfiguring kubelet
Removing DNS manifest
deployment.apps "coredns" deleted
pod/coredns-7745f9f87f-d4lk8 condition met
serviceaccount "coredns" deleted
configmap "coredns" deleted
service "kube-dns" deleted
clusterrole.rbac.authorization.k8s.io "coredns" deleted
clusterrolebinding.rbac.authorization.k8s.io "coredns" deleted
DNS is disabled

Reference: <a href="https://www.server-world.info/en/note?os=Ubuntu">https://www.server-world.info/en/note?os=Ubuntu</a> 22.04&p=microk8s&f=7
Reference to fix mount error because it is not shared
<a href="https://access.redhat.com/documentation/en-us/red">https://access.redhat.com/documentation/en-us/red</a> hat enterprise linux/6/html/storage administration guide/sect-using the mount command-mounting-bind