# Execute Performance Tests using K6

Open Google Cloud Shell and enter the below commands

```
mkdir myapp

cd myapp

sudo apt-get update

sudo apt-get install nodejs npm
```

- Goto the Editor Tab and click on Open Home Workspace
- Right click on the myapp directory and create a new file "app.js" and paste the below code

```
const express = require('express');
const app = express();
const port = 3010;
app.get('/', (req, res) => {
  res.send('Hello, World!');
});
app.listen(port, () => {
  console.log(`Server running at http://localhost:${port}/`);
});
```

Switch back to console window and execute the below commands

npm install express

node app.js

- Click on the icon Web Preview and "Change Port view". Enter the port as "3010" and click on "Click and Preview"
- You should be able to see app running running on the port 3010

Switch back to console window and click on + icon to open another tab of console window

npm install express

node app.js

In the console window, execute the below commands

sudo gpg -k

sudø gpg --no-default-keyring --keyring /usr/share/keyrings/k6-archive-keyring.gpg --keyserver hkp://keyserver.ubuntu.com:80 --recv-keys C5AD17C747E3415A3642D57D77C6C491D6AC1D69

echo "deb [signed-by=/usr/share/keyrings/k6-archive-keyring.gpg] https://dl.k6.io/deb stable main" | sudo tee /etc/apt/sources.list.d/k6.list

sudo apt-get update

sudo apt-get install k6

K6 package should get successfully installed and you should be able to view the version

Switch back to Editor window, right click on the directory "myapp" and create the file "load-test.js" and add the below content in the file

```
import http from 'k6/http';
import { check } from 'k6';
export default function () {
 const response = http.get('http://localhost:3010/');
 check(response, {
  'status is 200': (r) => r.status === 200,
  'body contains "Hello, World!": (r) => r.body.includes('Hello, World!'),
 });
```

Switch back to "Console Window" and run the below command.

k6 run --vus 10 --duration 1m script.js

► The load test will run with 10vUsers for 1 min