**Case Study: Performance Monitoring and Analysis with JMeter, Prometheus, and Grafana**

**Designing JMeter test plans to simulate realistic user scenarios, including loading the site, searching for products, and other functionality available.**

**Creating Test Plan**

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**Adding HTTP Request Defaults**



**Adding HTTP Cookie Manager**

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**Adding HTTP Cache Manager**

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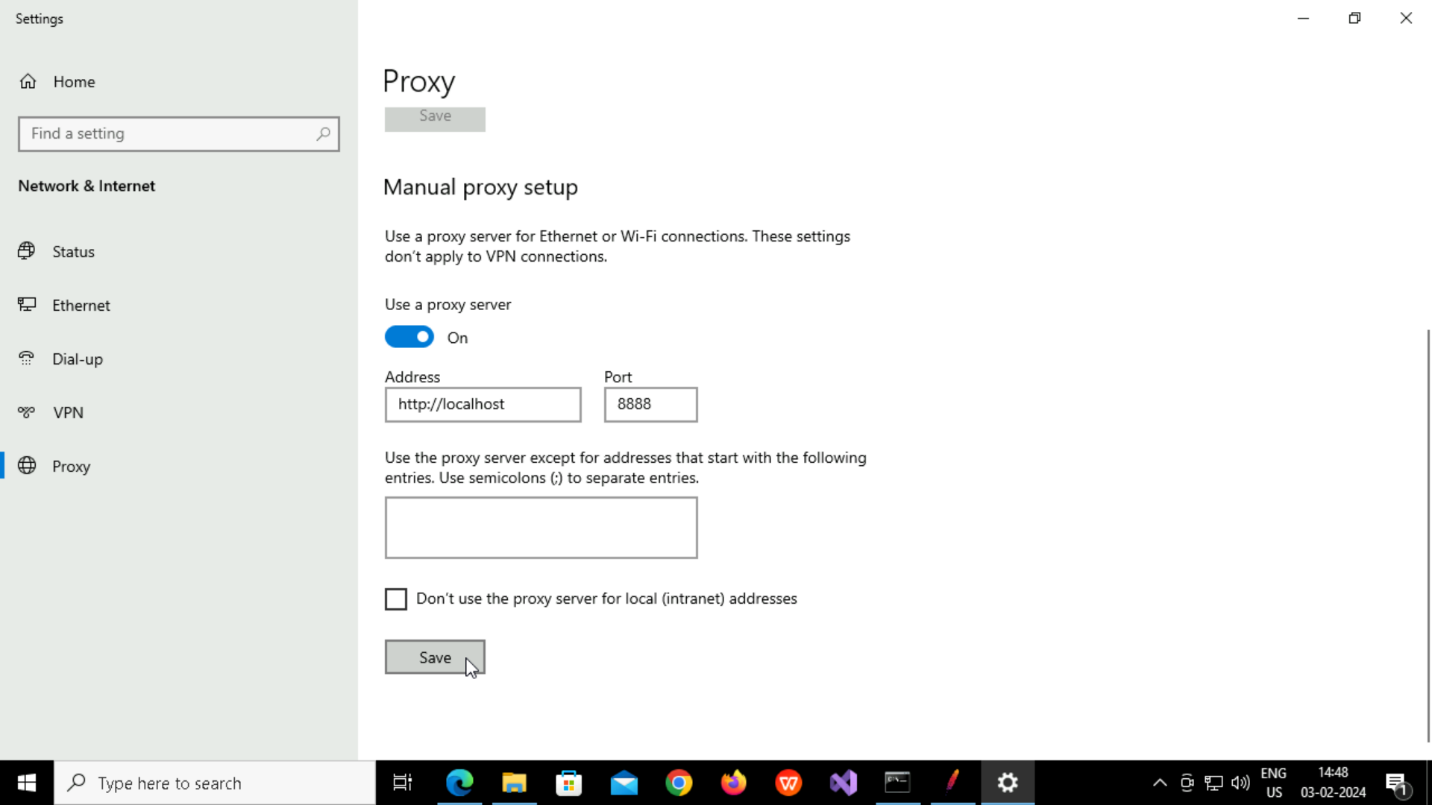
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**Creating Thread group**

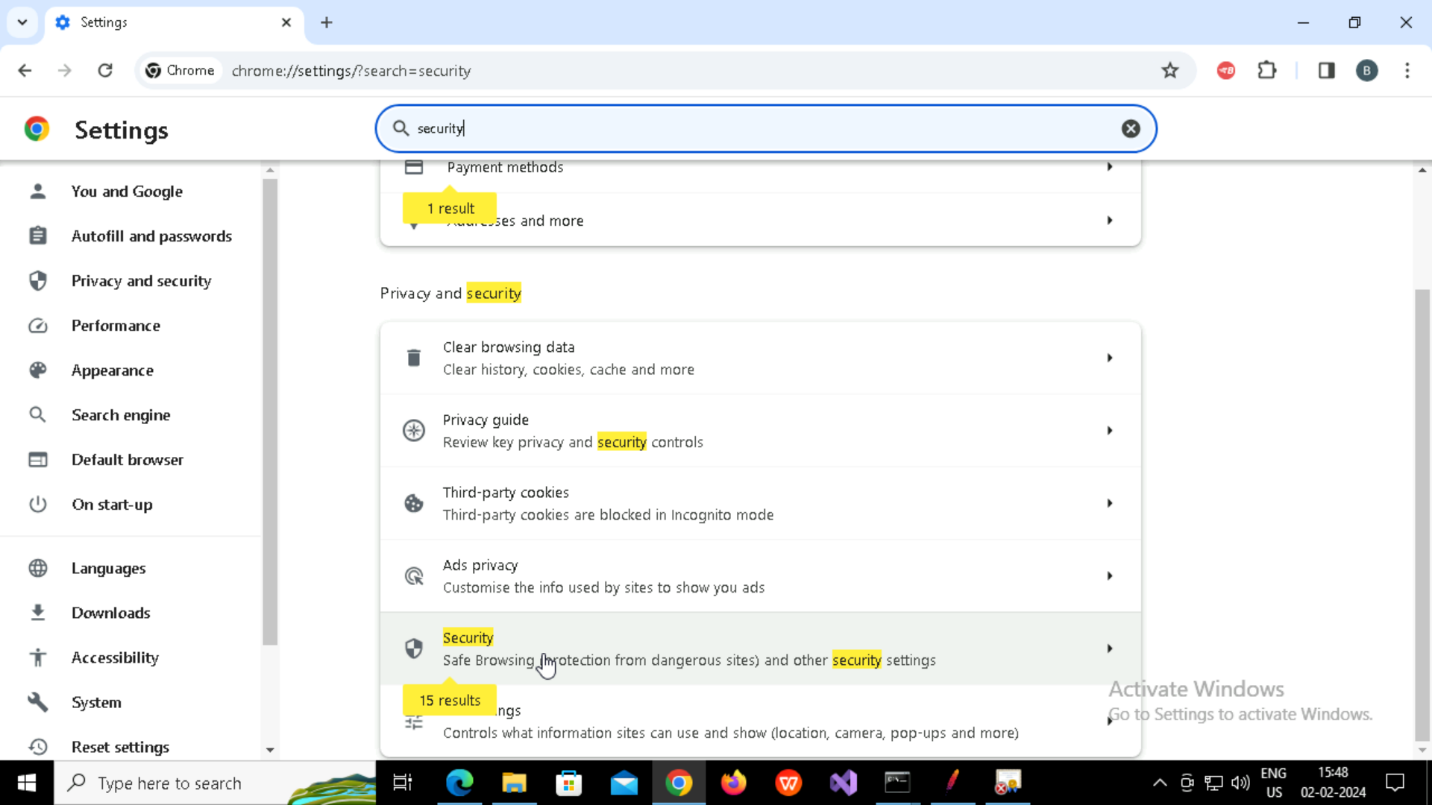
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**Configuring Proxy**



**Managing SSL Certificate**



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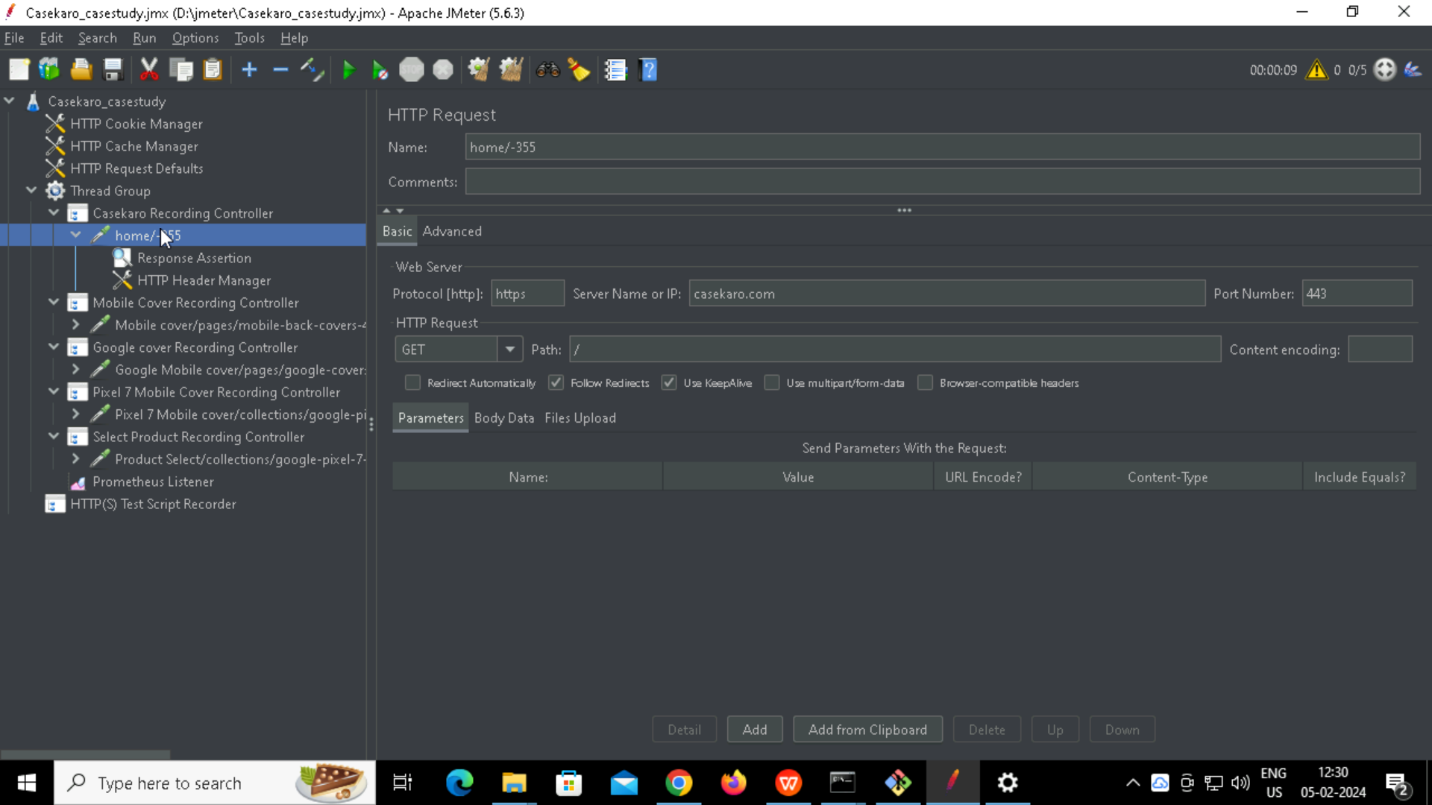
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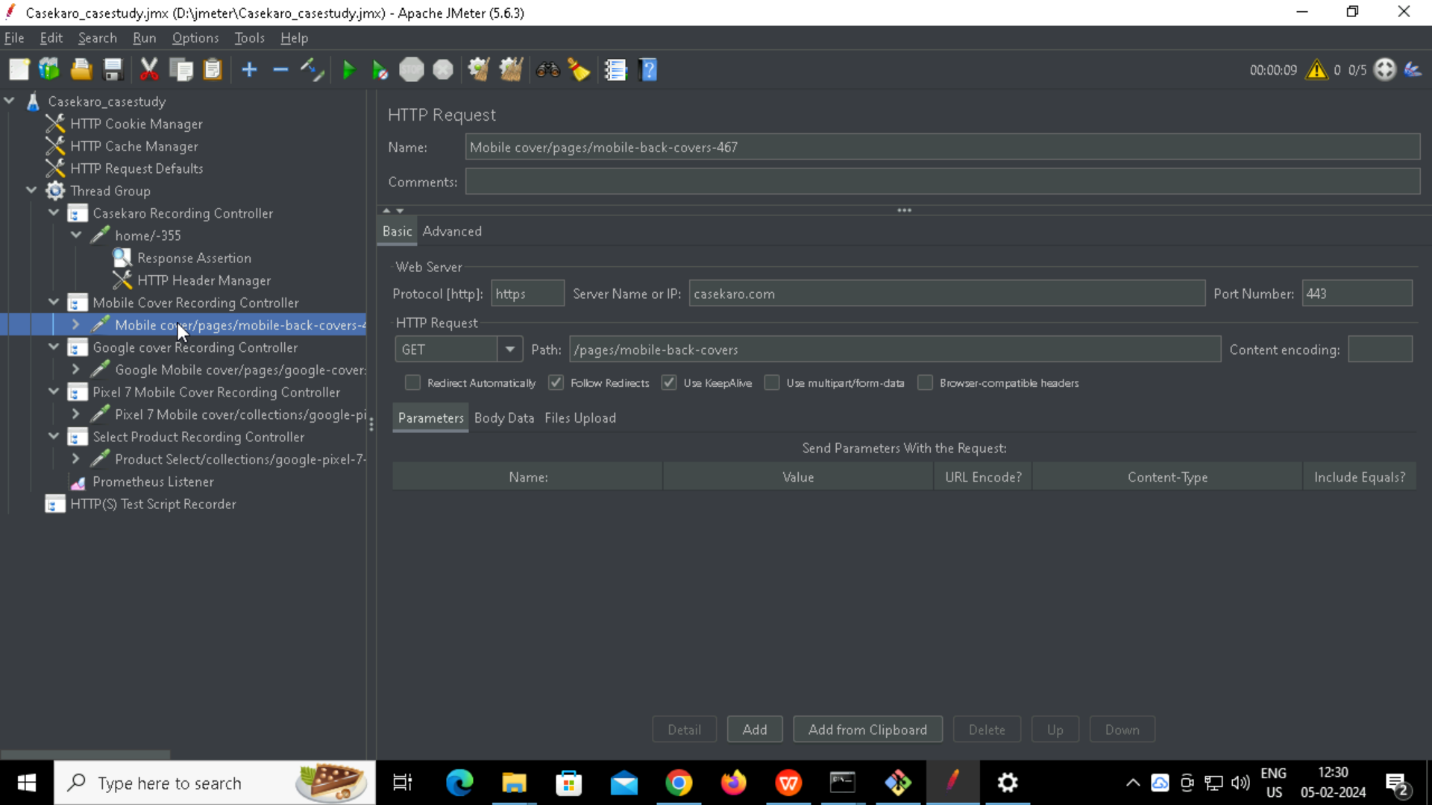
**Adding Recording Controller**



**Adding Test Script Recorder**

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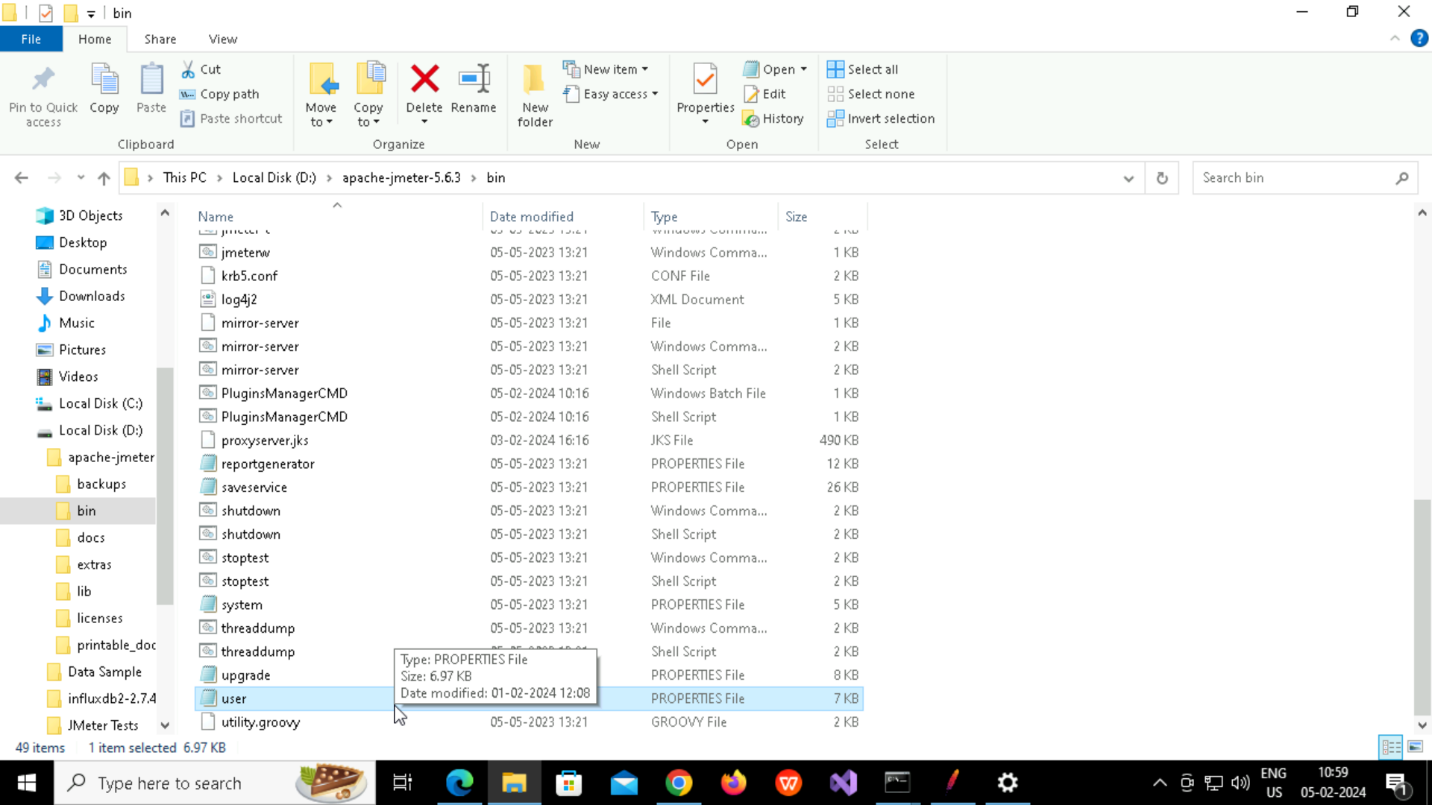
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**Adding Prometheus Listener**

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**Give the Prometheus port inside Jmeter/bin/user properties file**



**Add Prometheus port 9270**

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**Starting Prometheus**

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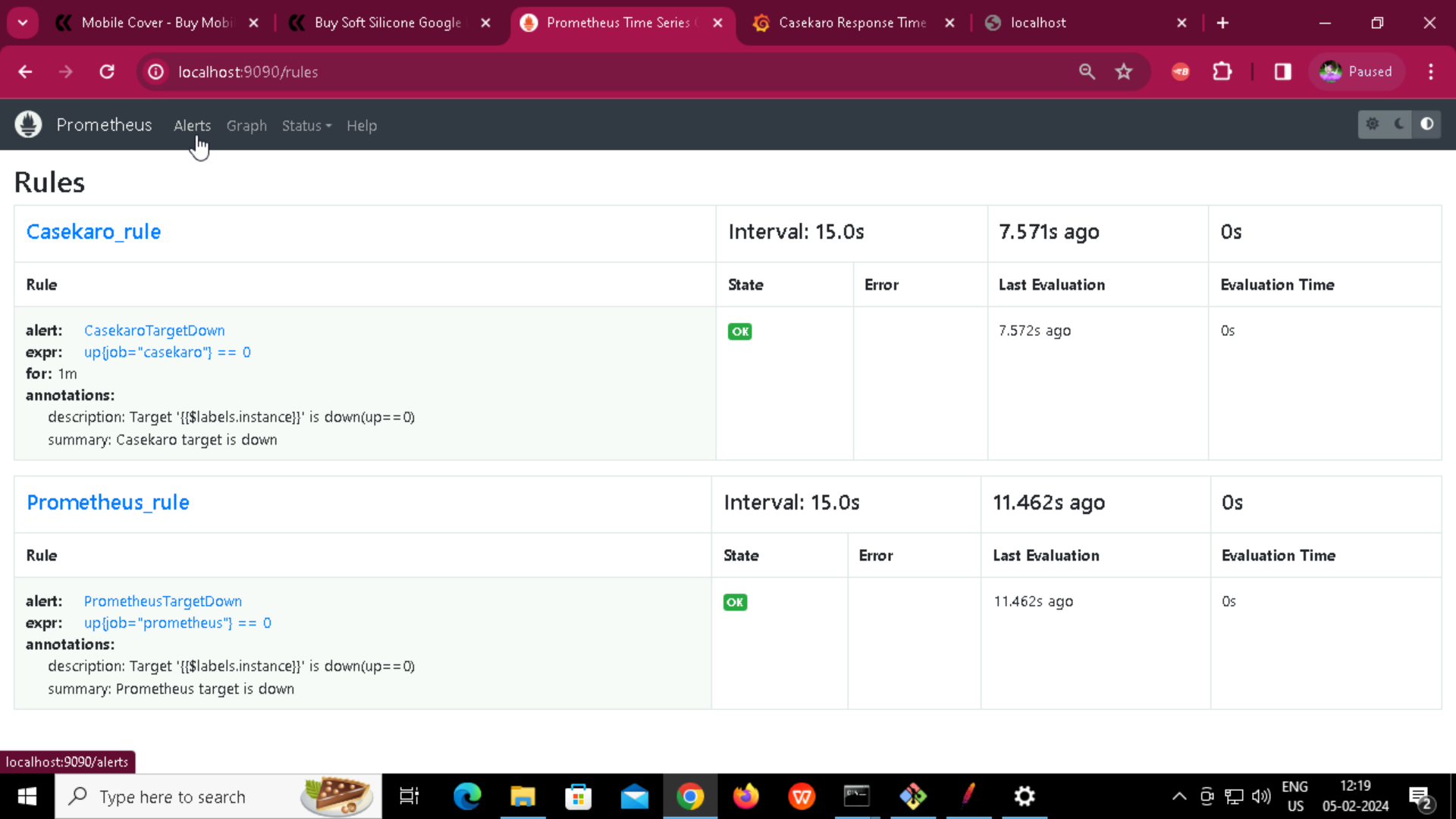
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**Opening Prometheus in browser**

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**Checking the rule**



**Checking the alert**

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Grafana Dashboard

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