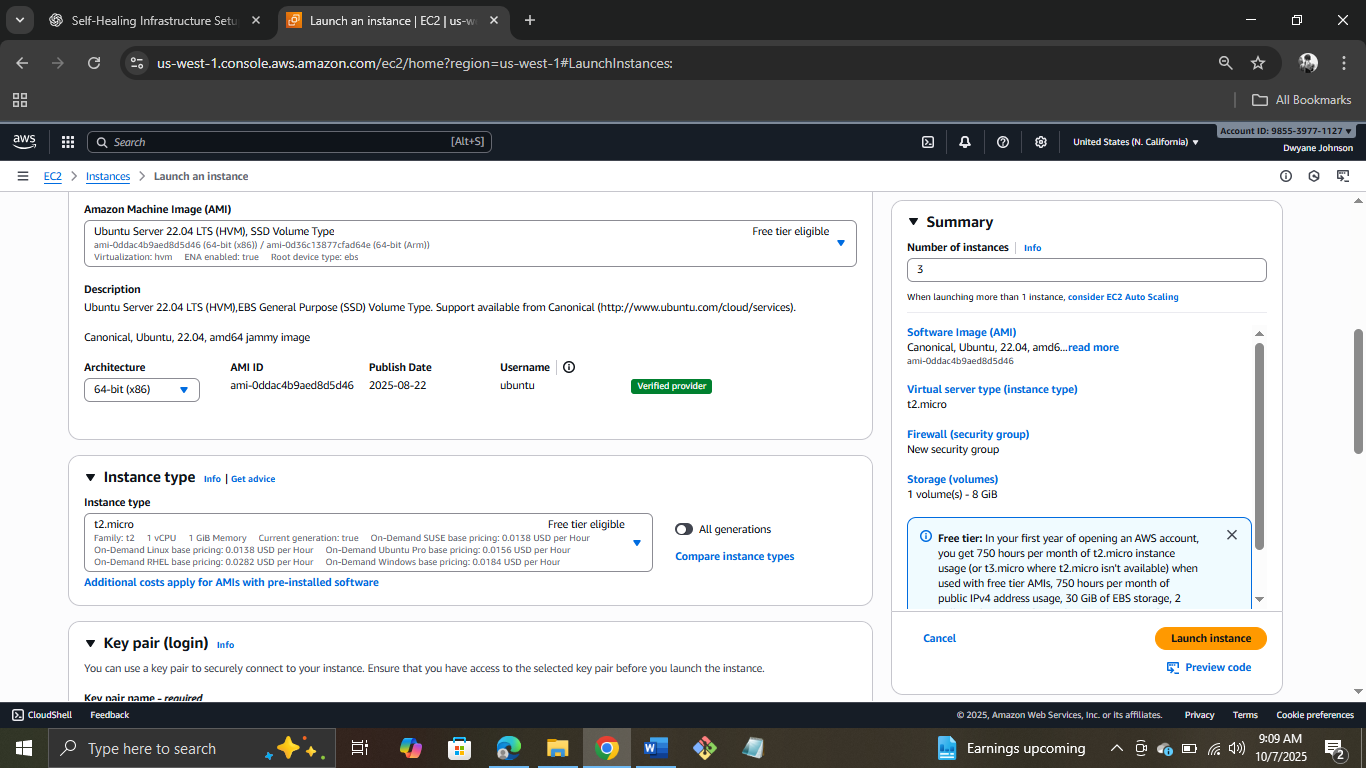
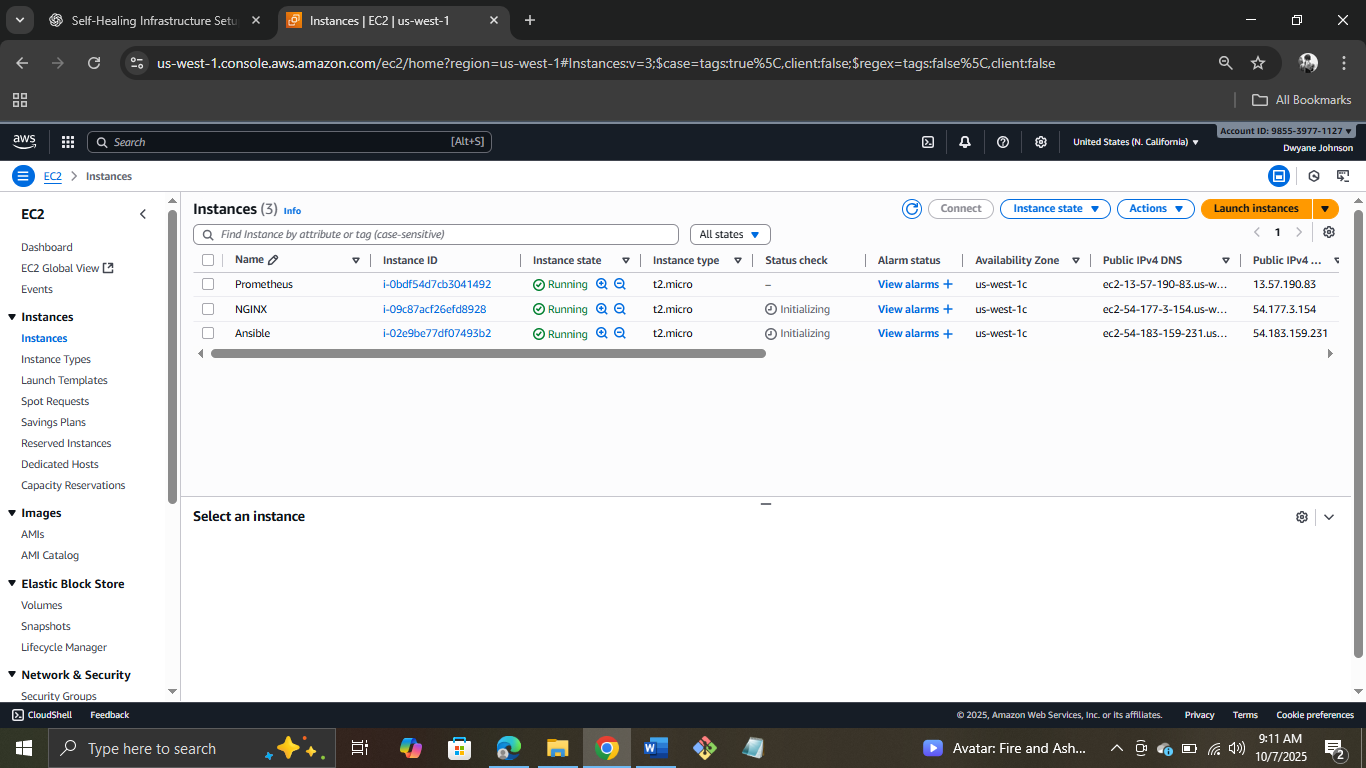
Self-Healing Infrastructure with Prometheus, Alertmanager & Ansible

**Overview of the servers:**

| **Server** | **Purpose** | **Components Installed** | **Example Hostname** |
| --- | --- | --- | --- |
| **Server 1** | Monitoring Server | Prometheus + Alertmanager | monitor-server |
| **Server 2** | Application Server | NGINX (sample service to monitor) + Node Exporter | app-server |
| **Server 3** | Automation Server | Ansible (will receive webhook from Alertmanager) | ansible-server |

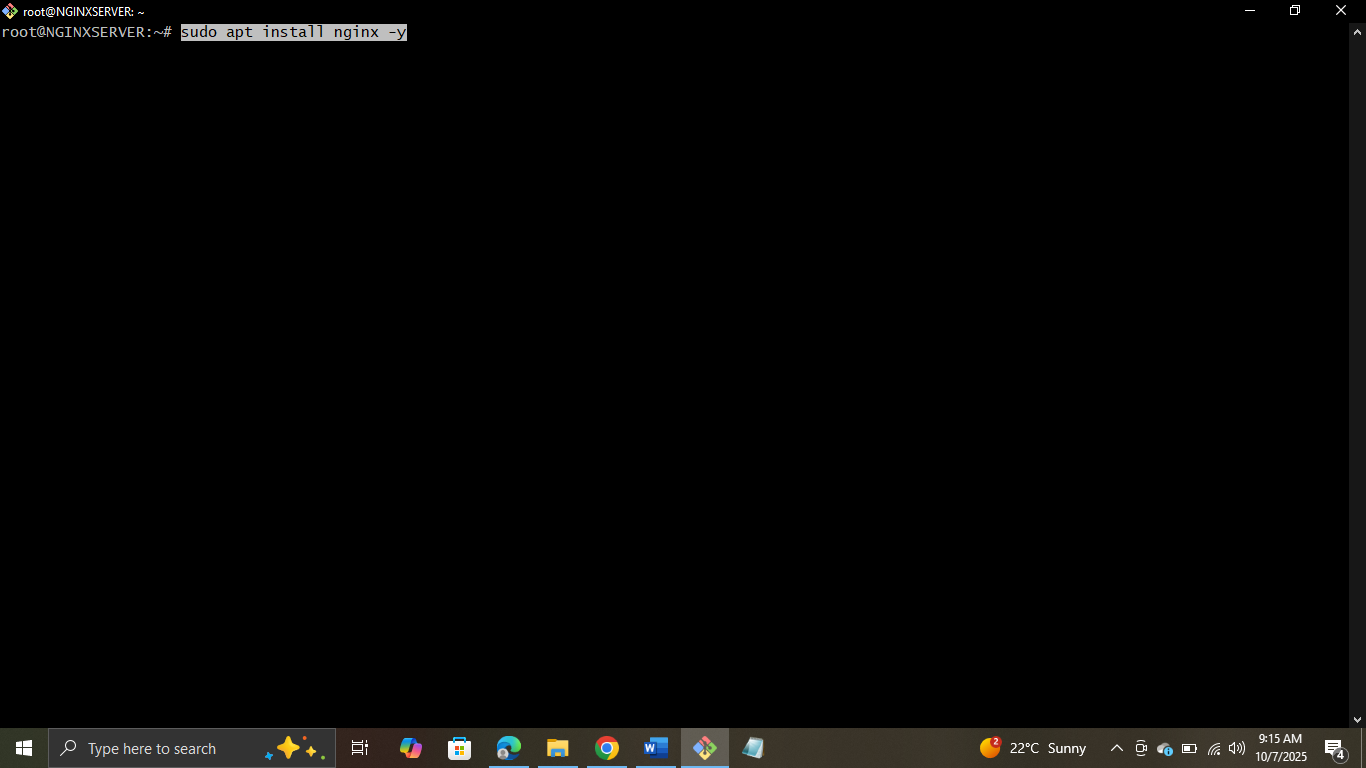
Step 1: Launching 3 servers



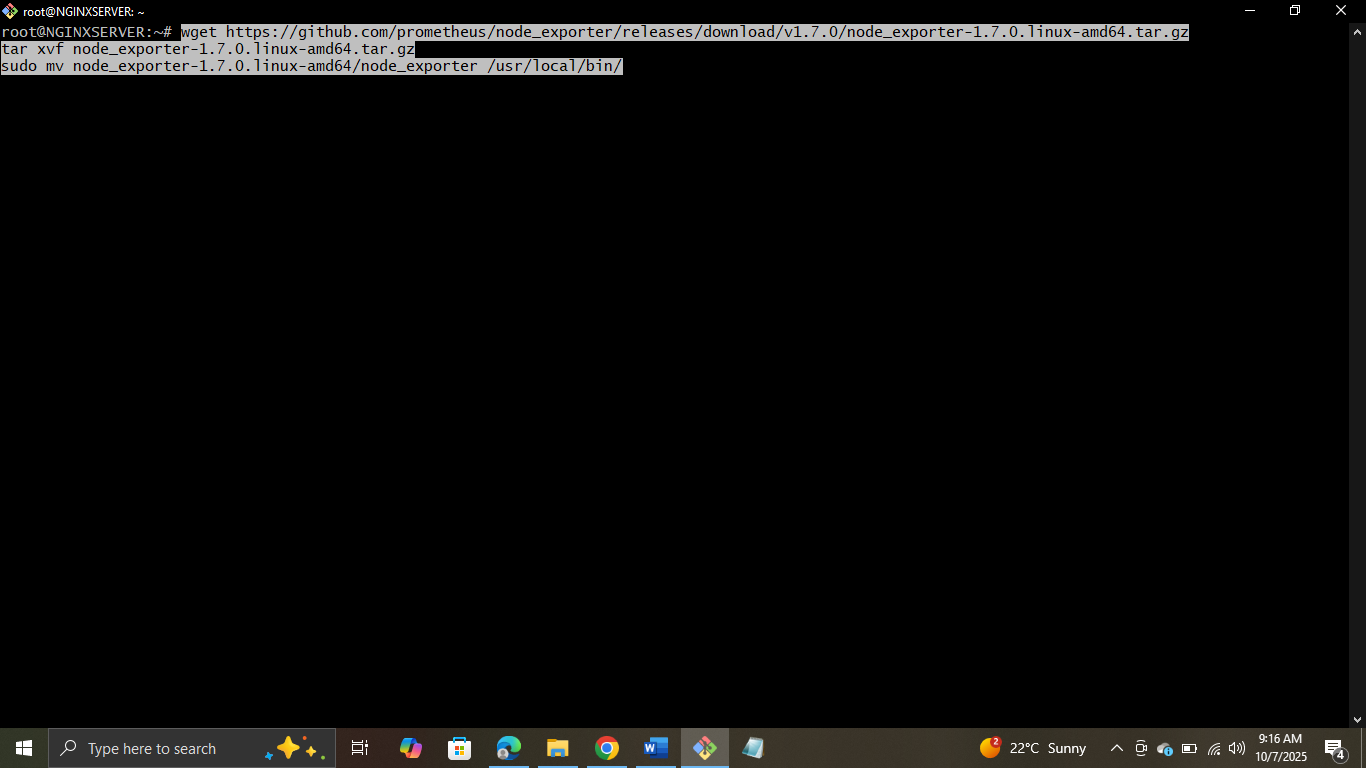


Step 2: Connecting NGINX server to git bash and Installing NGINX and Node Exporter

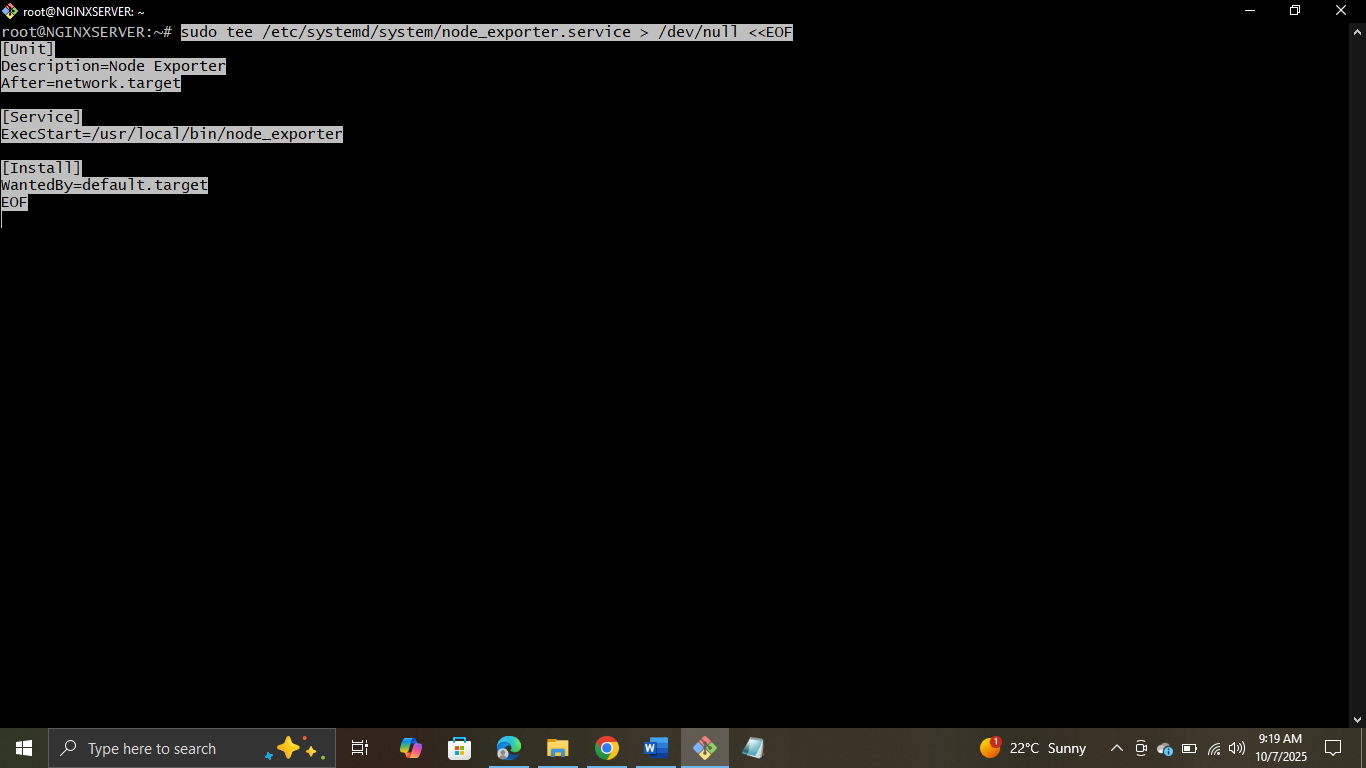
Installing NGINX



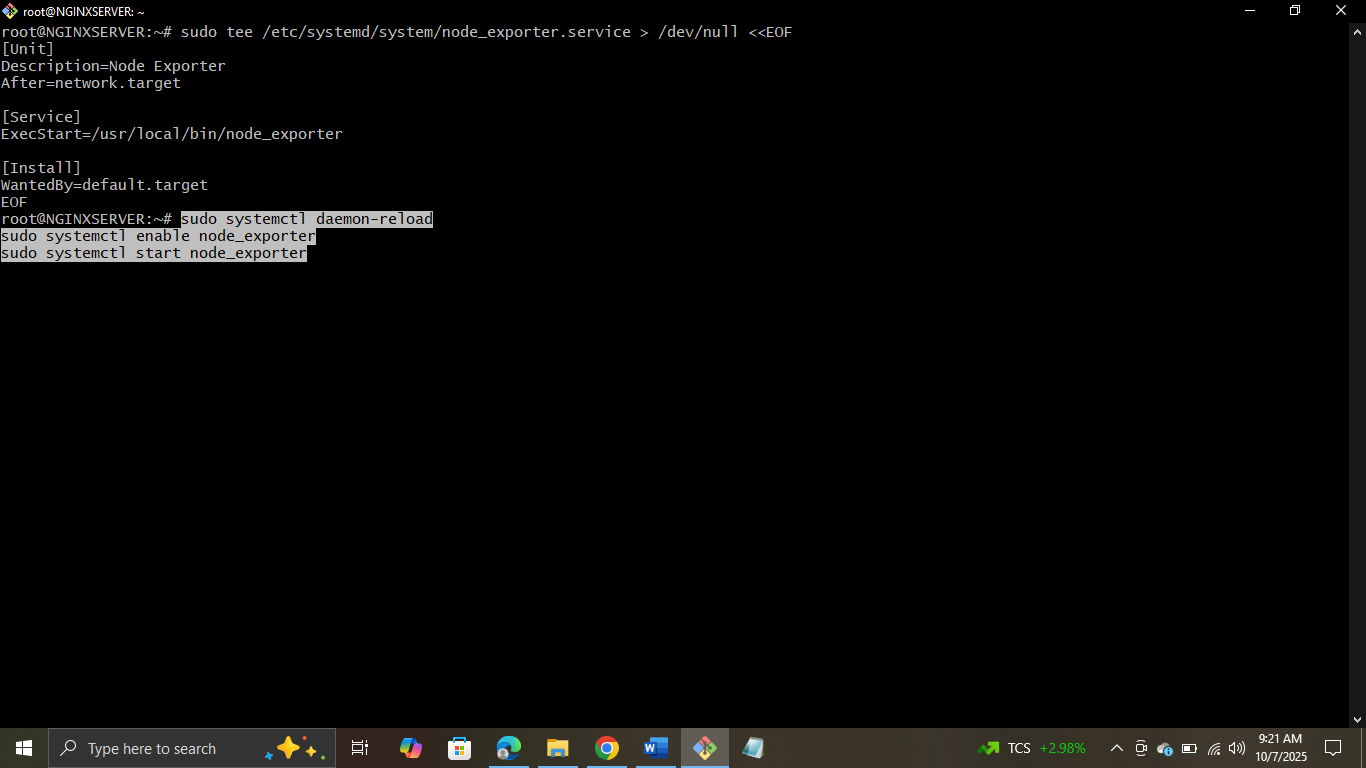
Installing NodeExporter



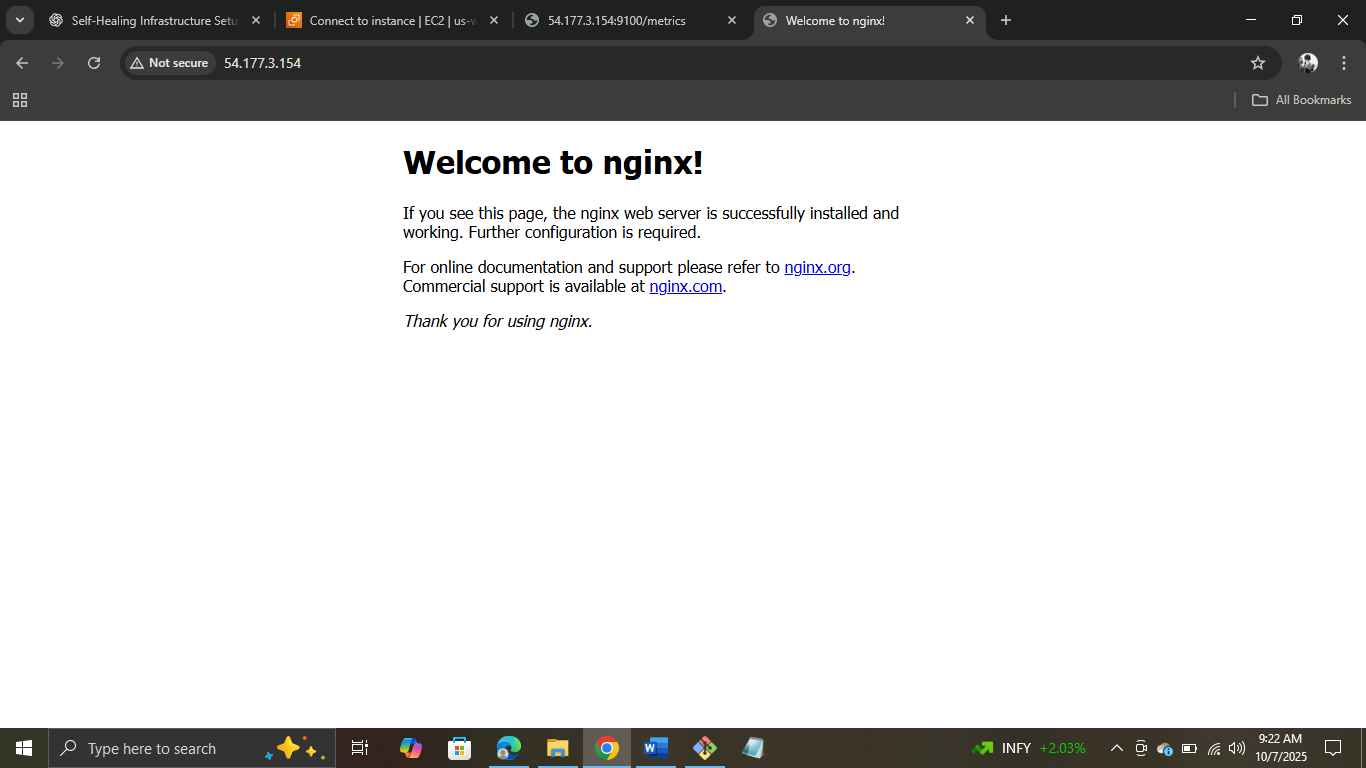
Creating system service

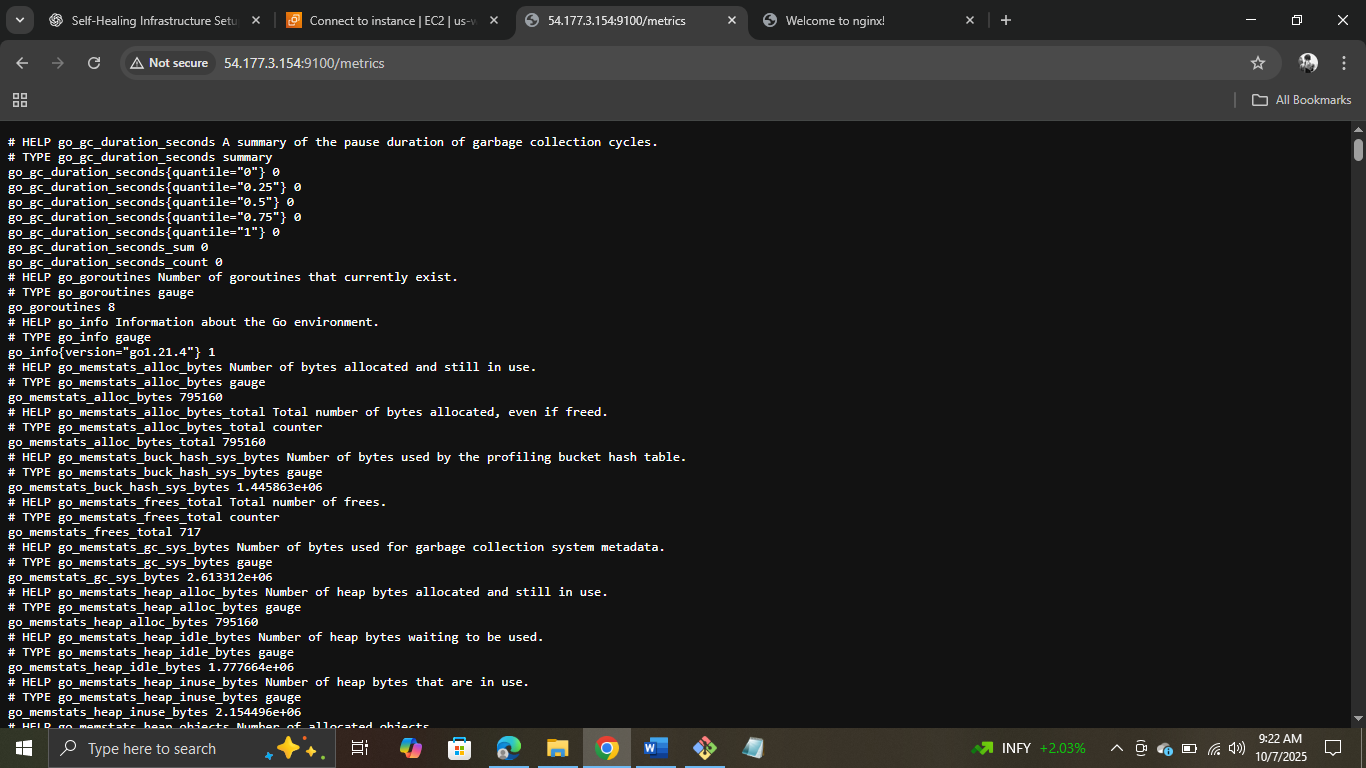


Relaoding, Enabling and Starting Node Exporter



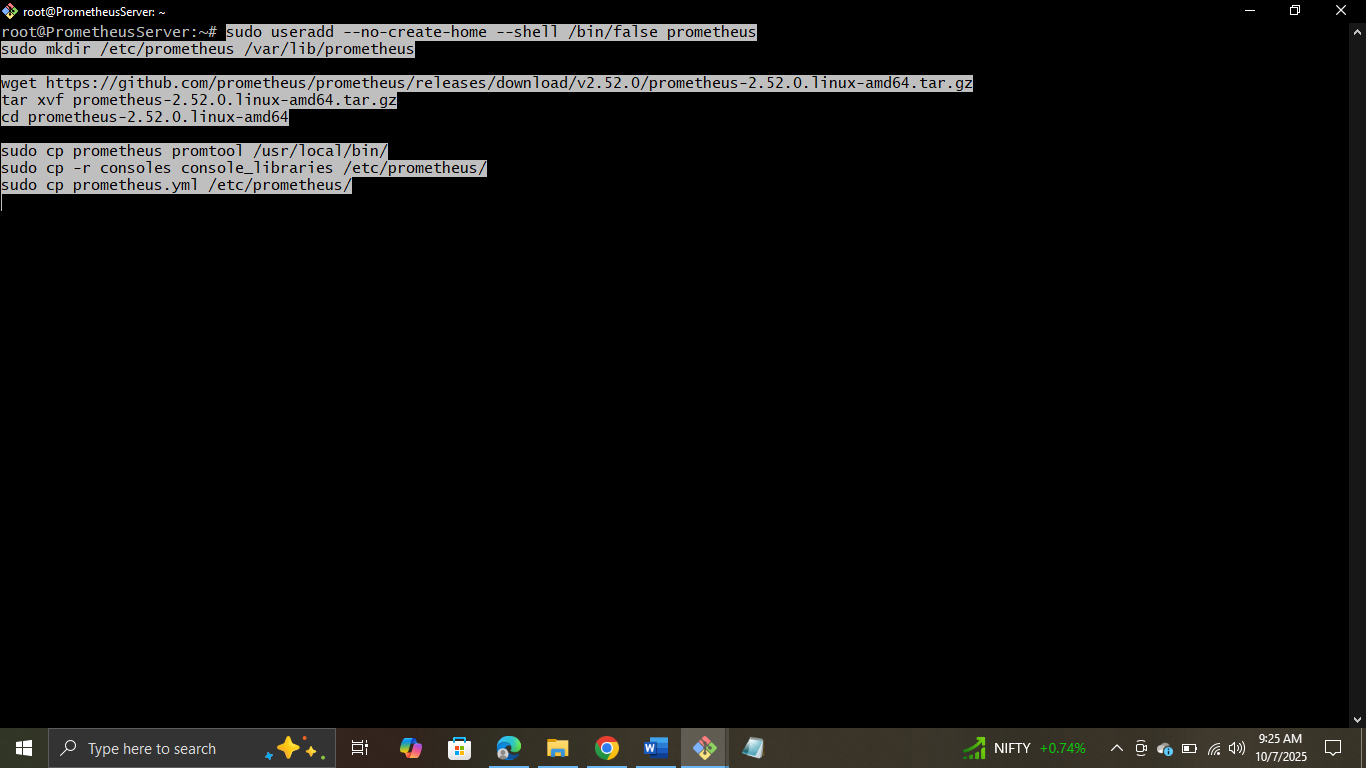
Verifying by taking Public IP



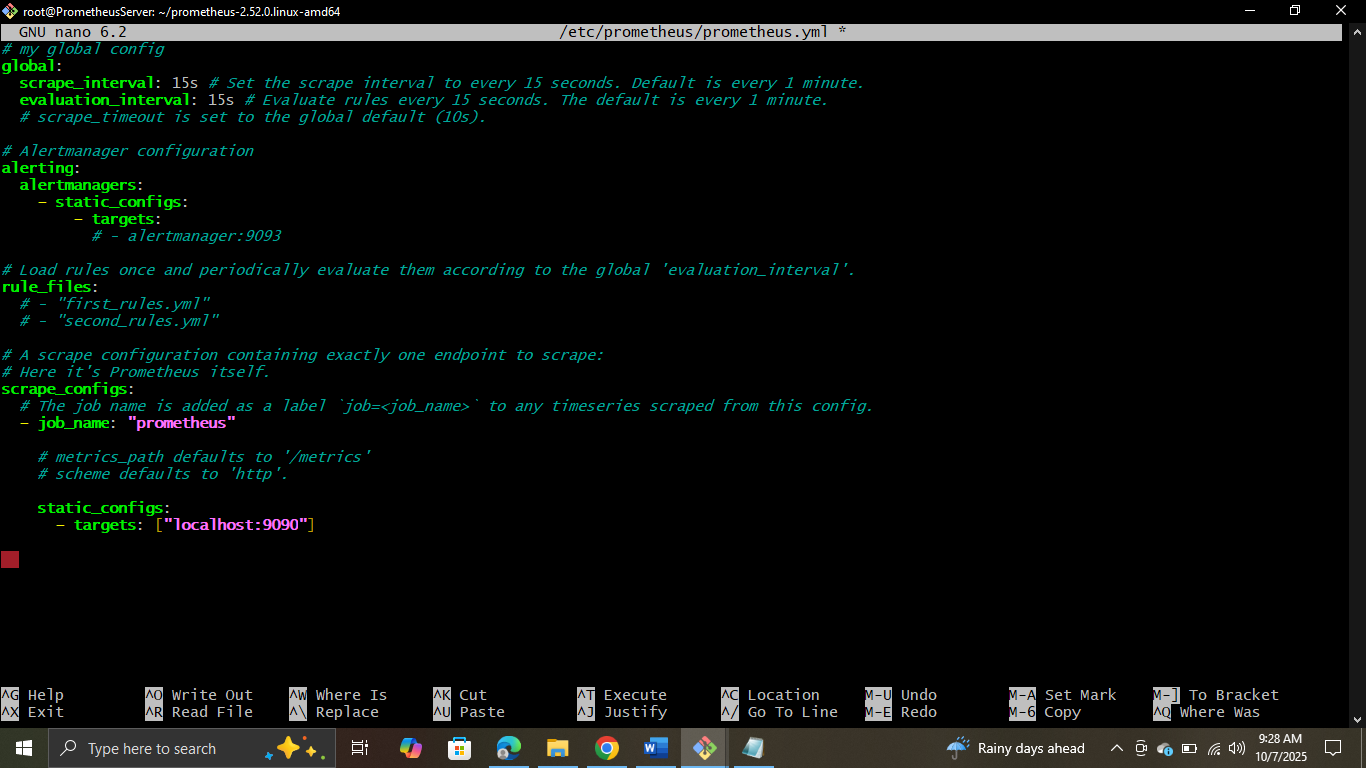


Step 3: Setting up Monitoring Server – Prometheus

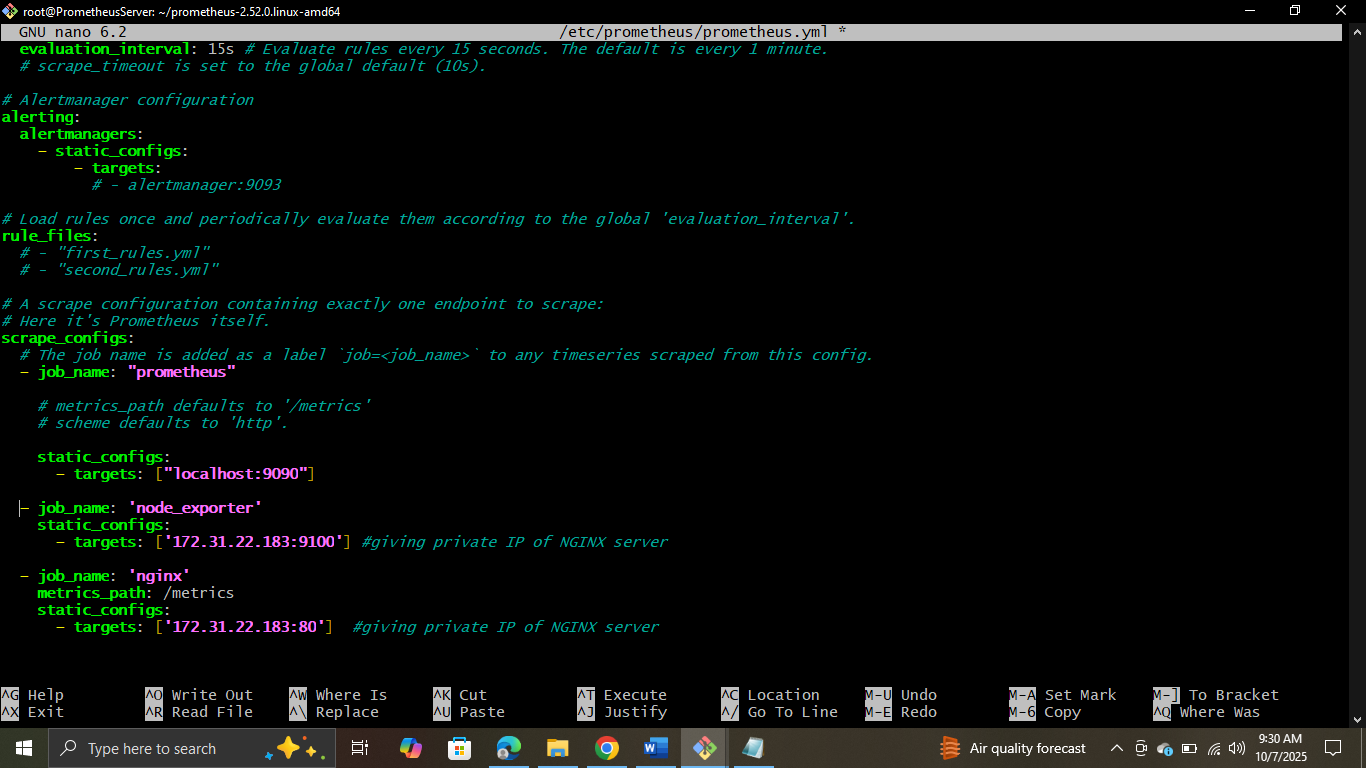
Installing Prometheus



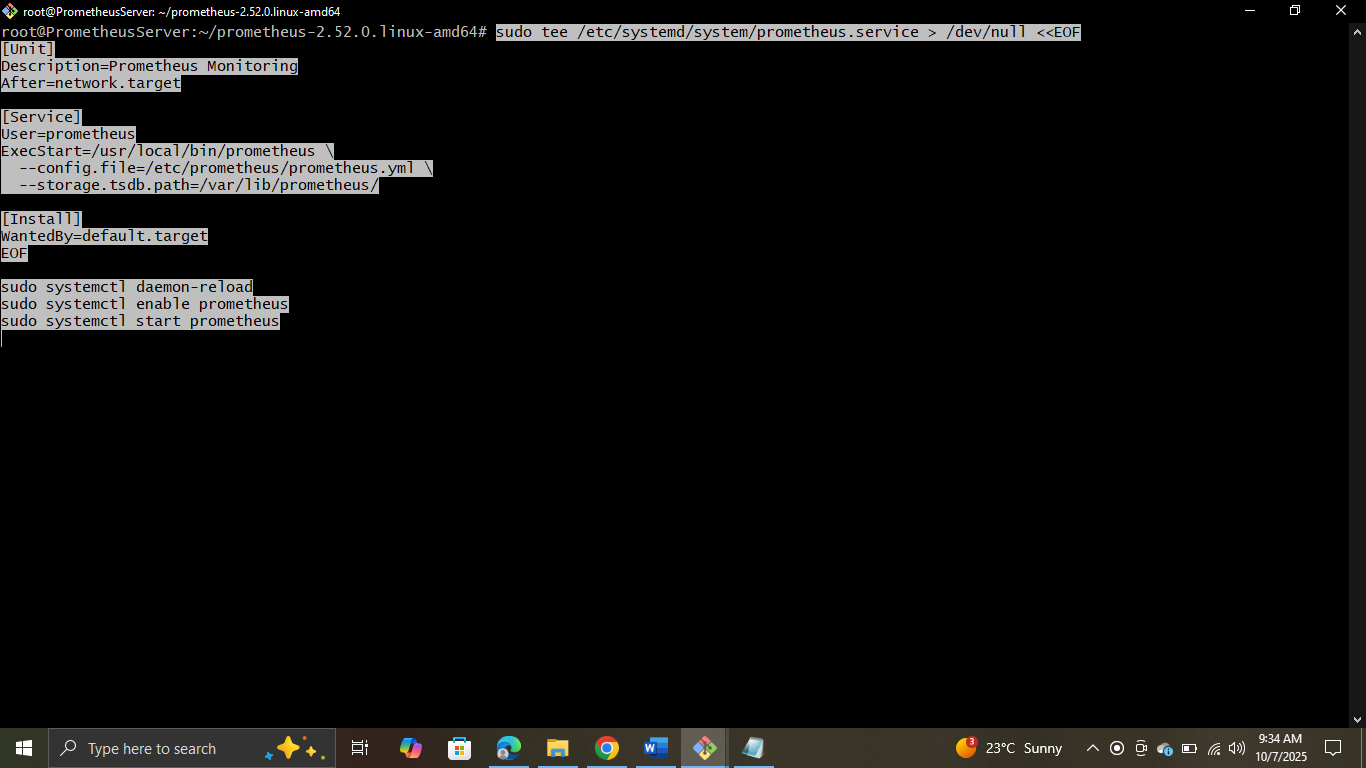
Editing Prometeheus Config – Opening the file



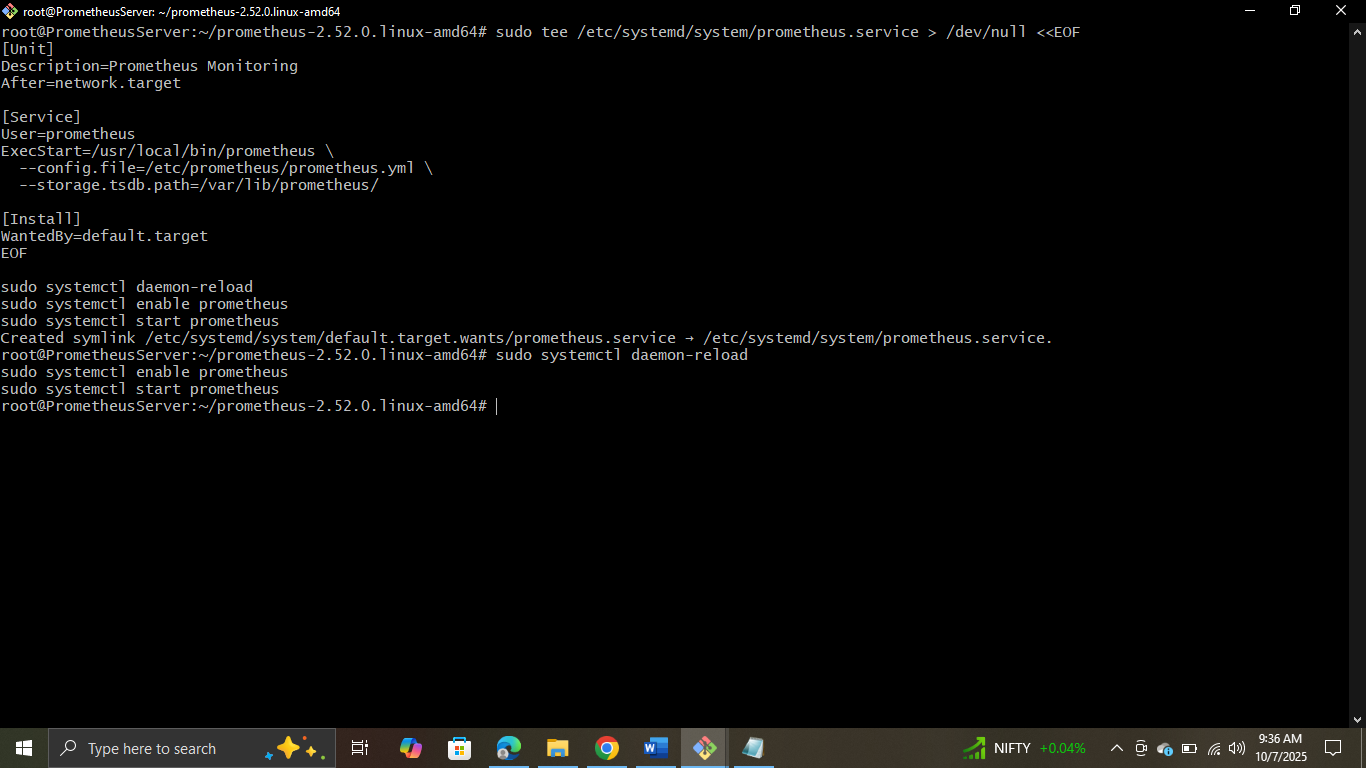
Adding the changes



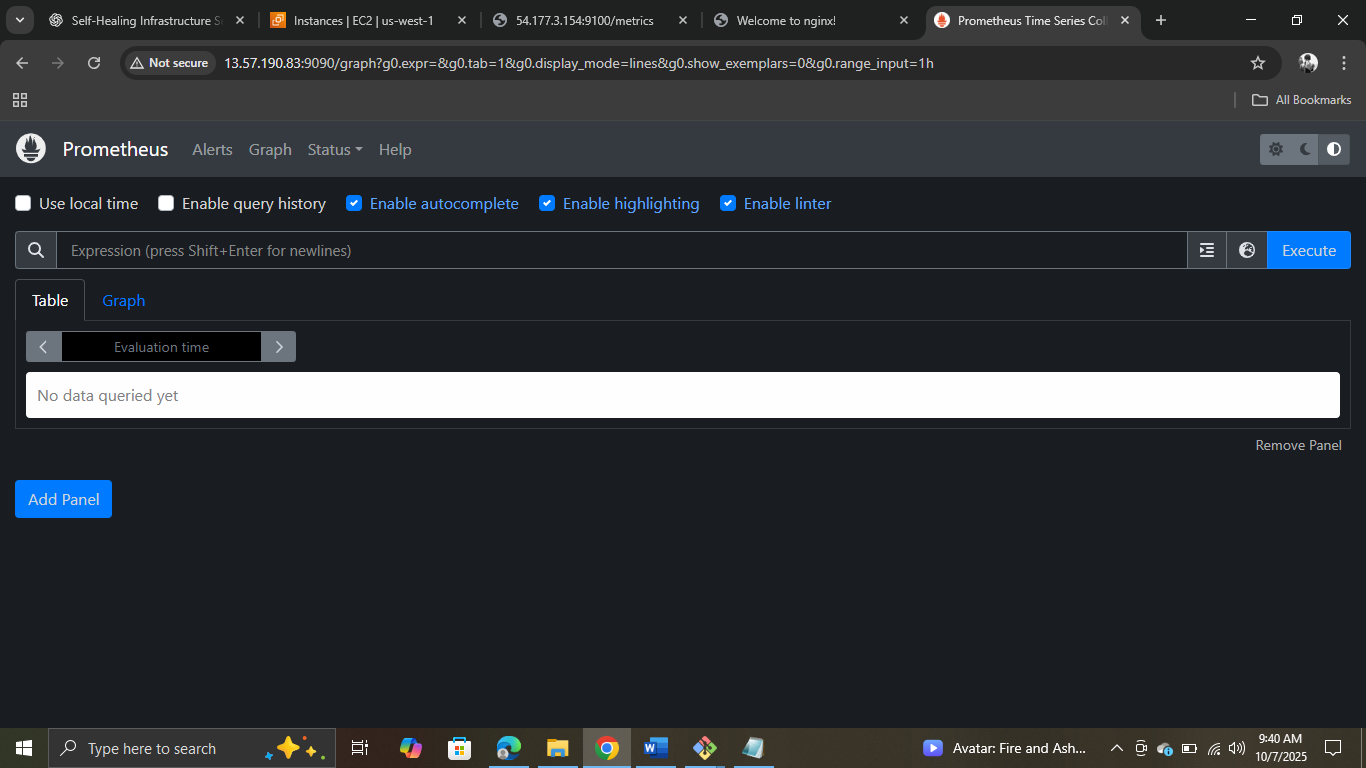
Creating Prometheus Service



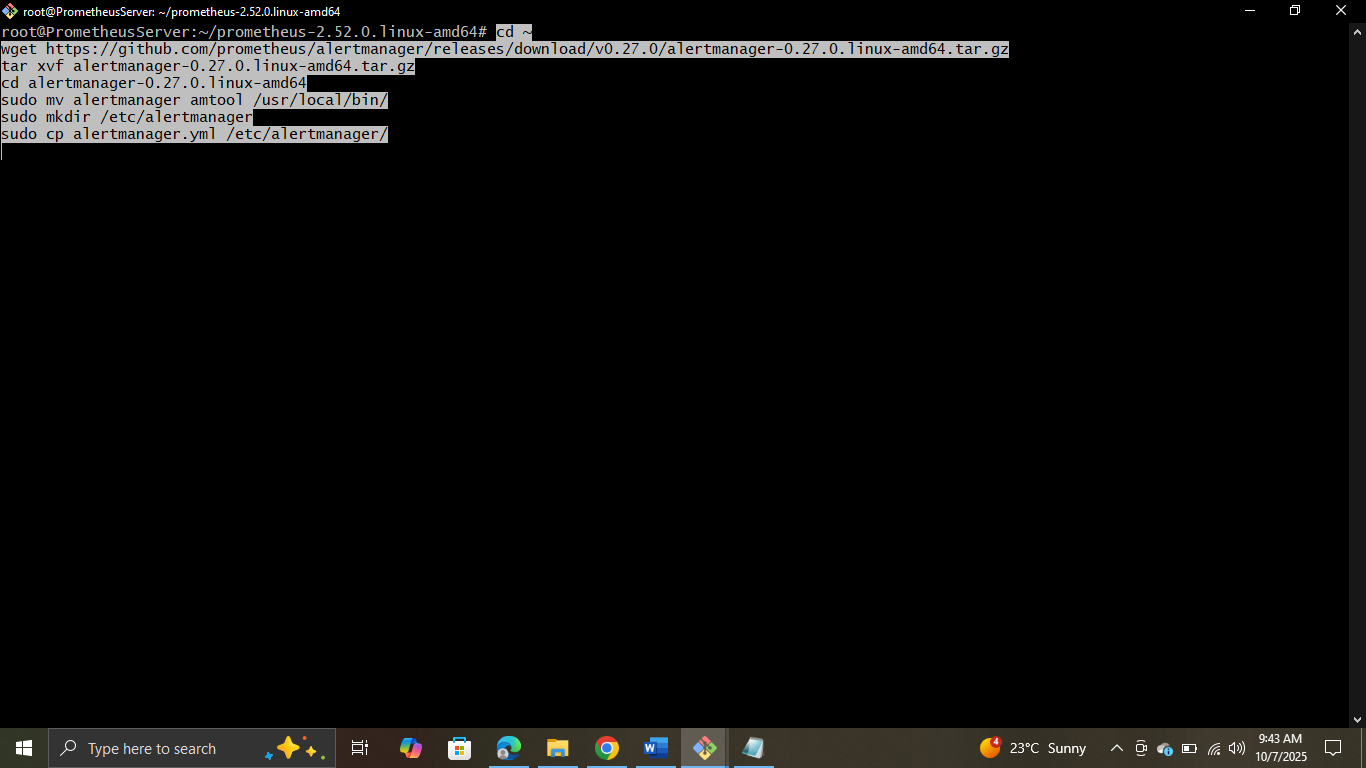
Relaoding, Enabling and Starting Prometheus



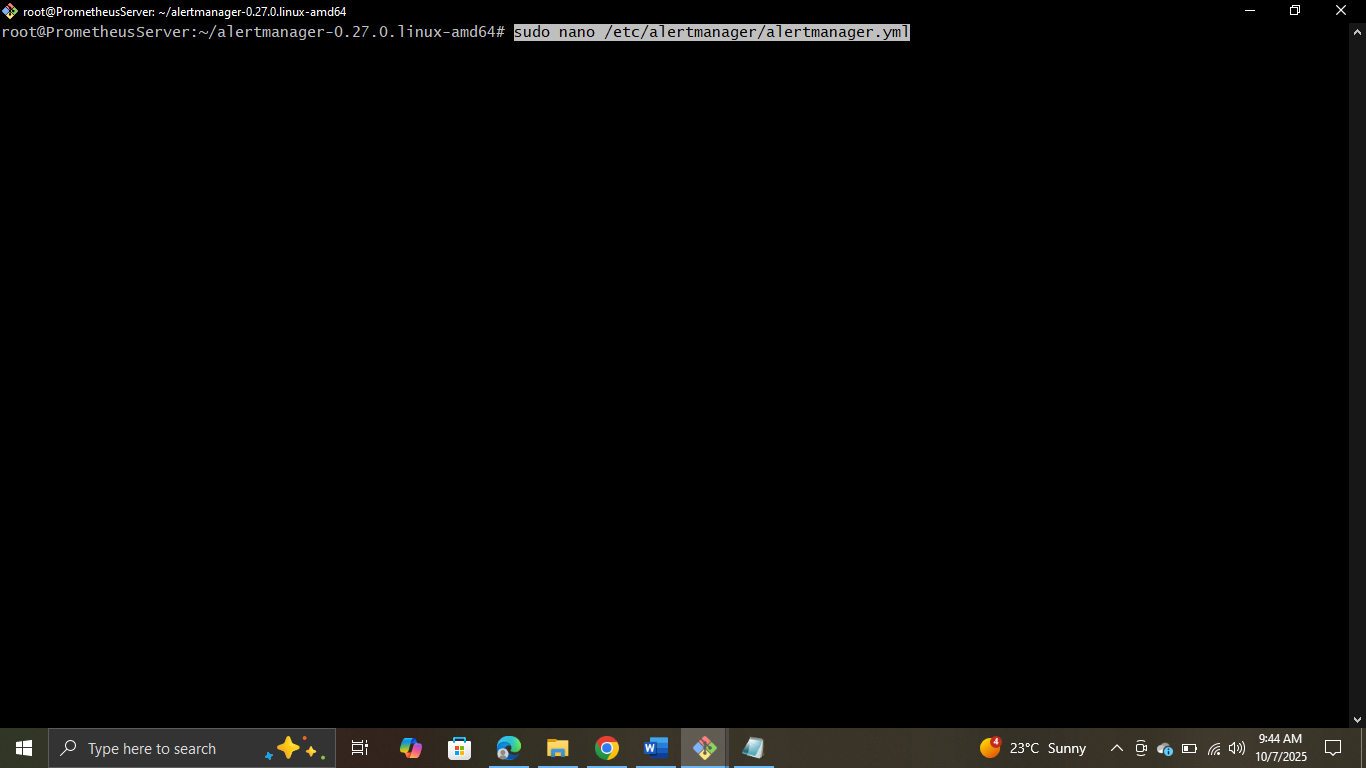
Verifying by taking Public IP: 9090

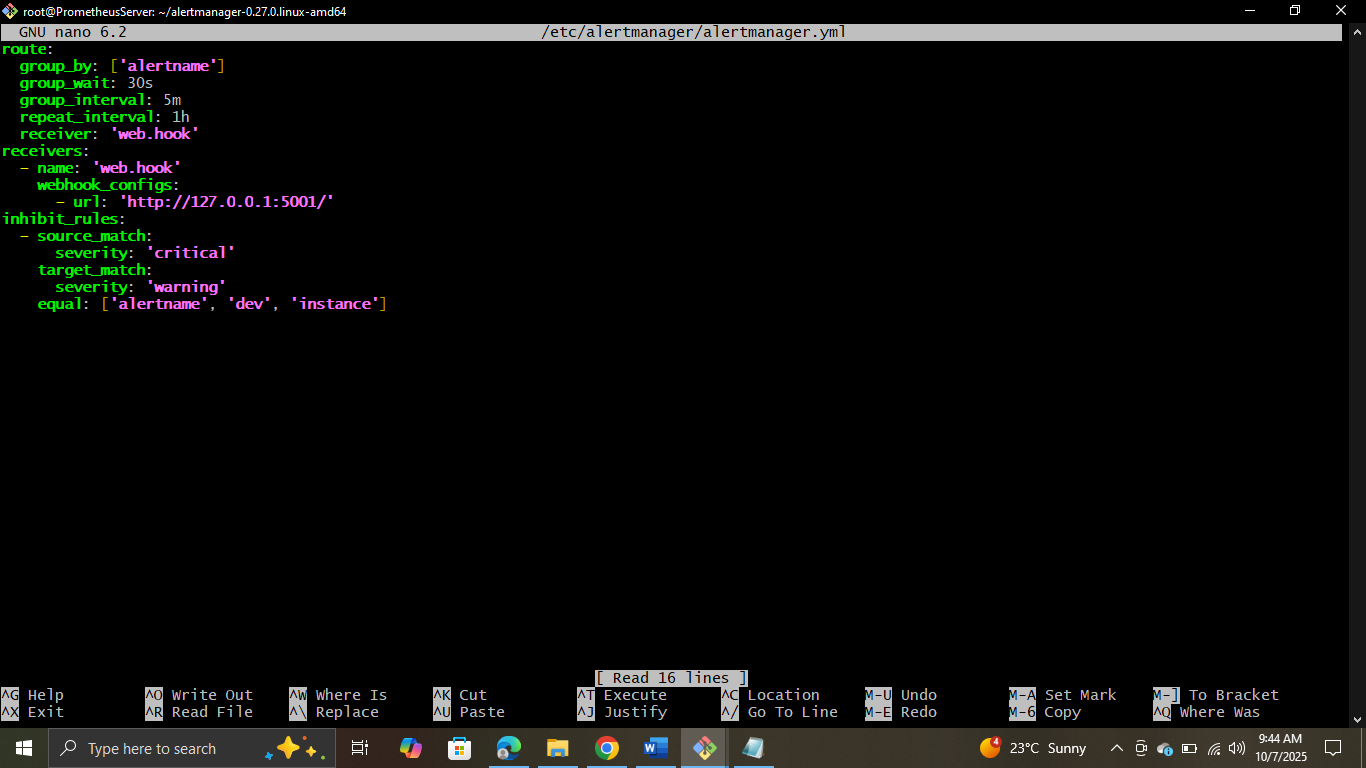


Step 4: Setting up Alertmanager on the same monitoring server

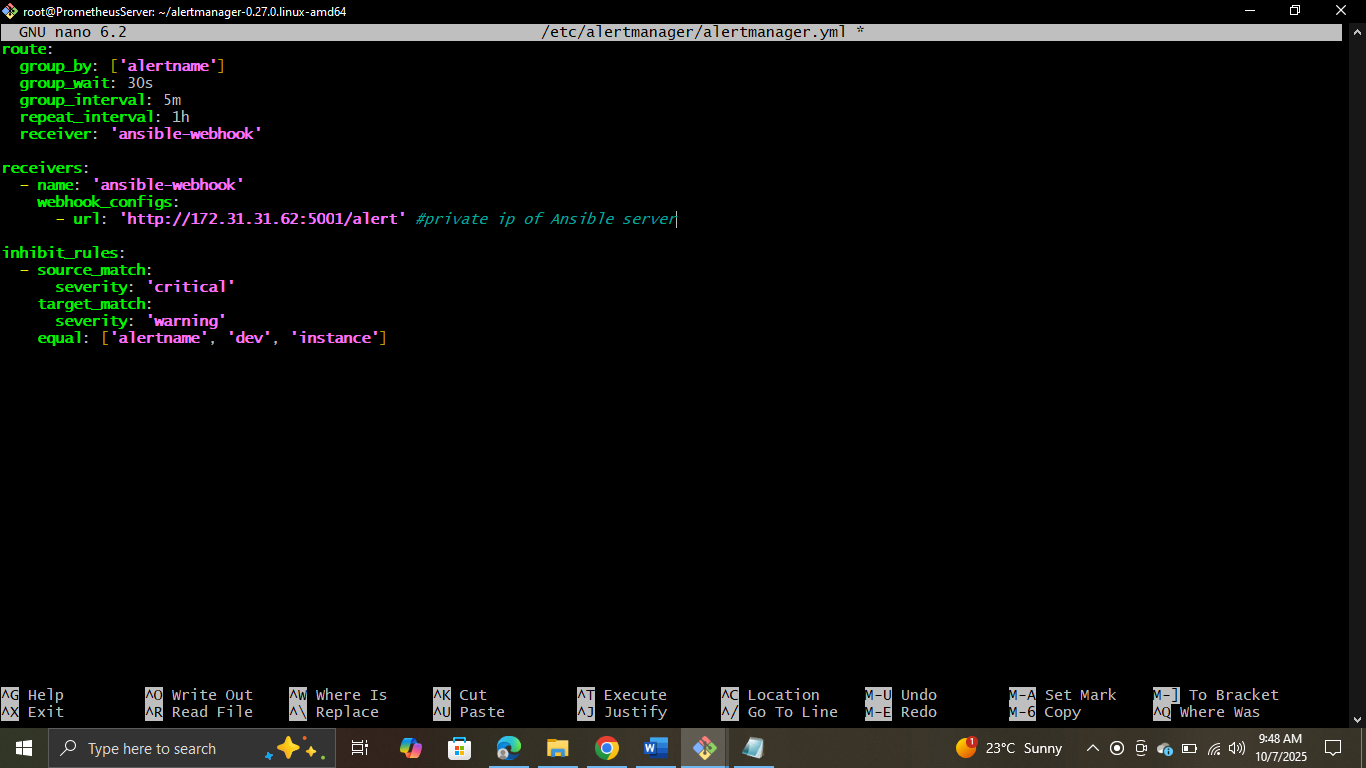


Configuring Alertmanager Webhook

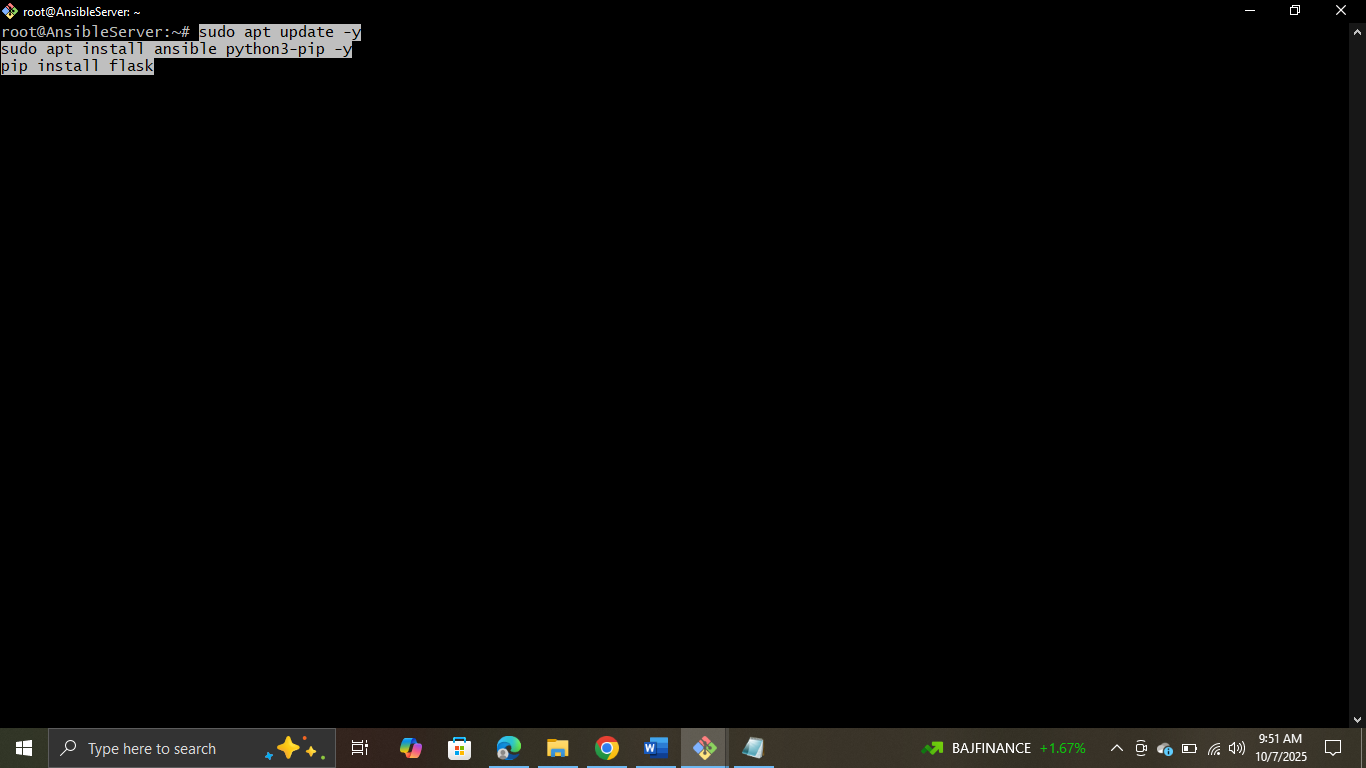




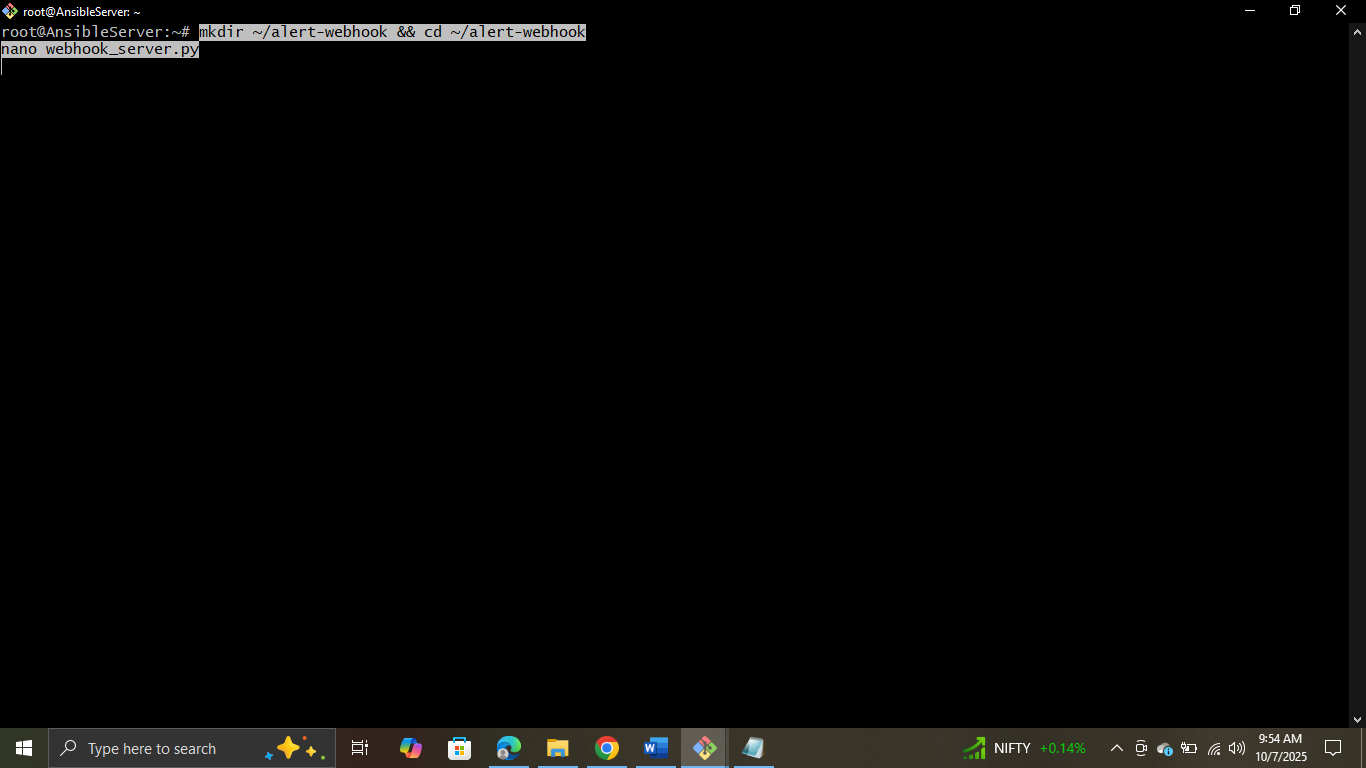
Adding Changes



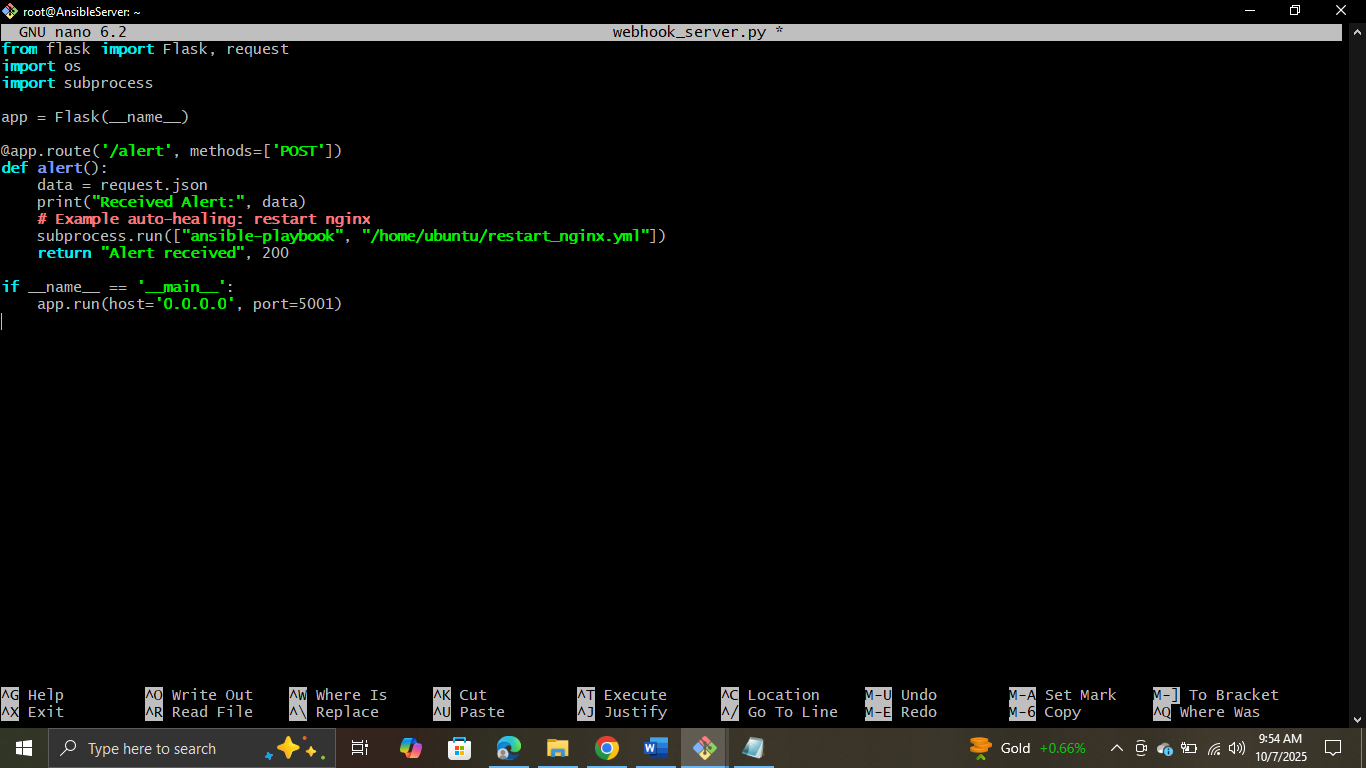
Step 5: Setting up Ansible Server and Installing Ansible and Flask



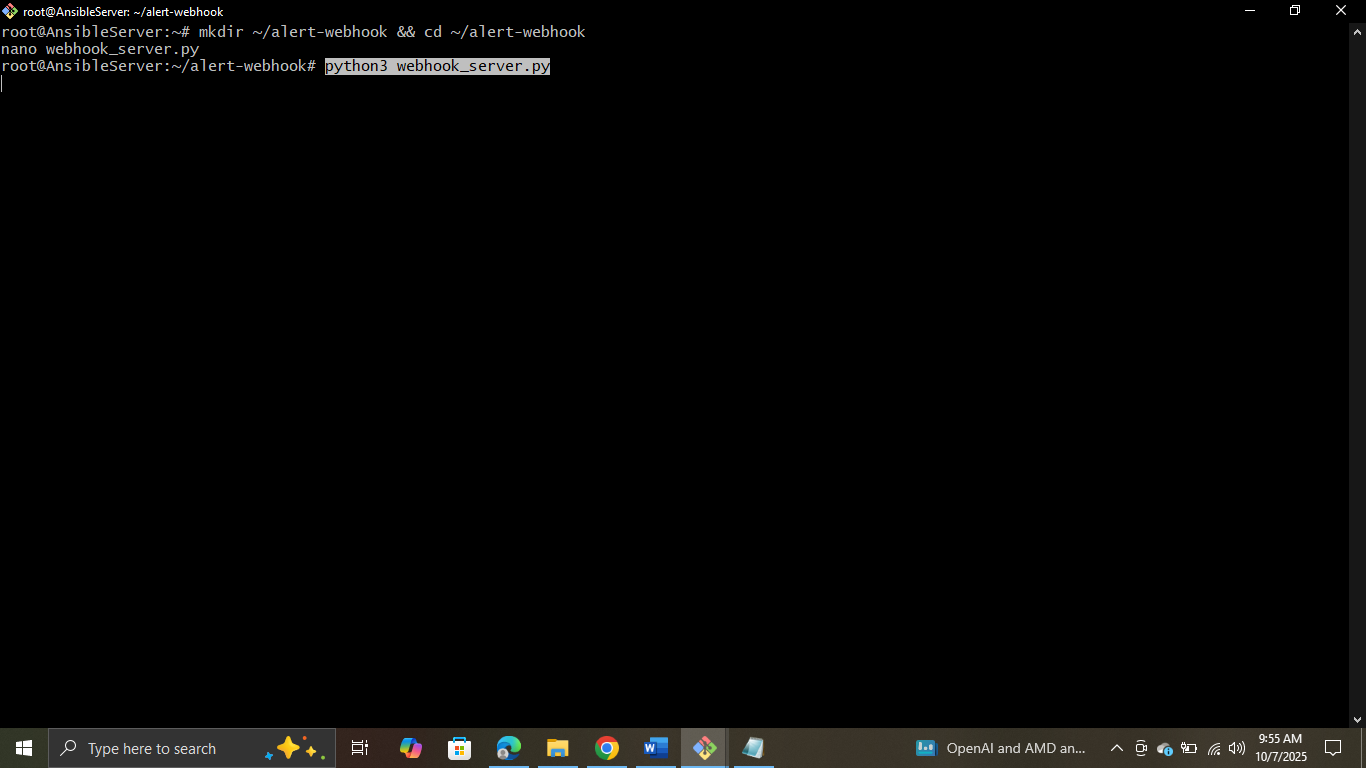
Creating Flask Webhook



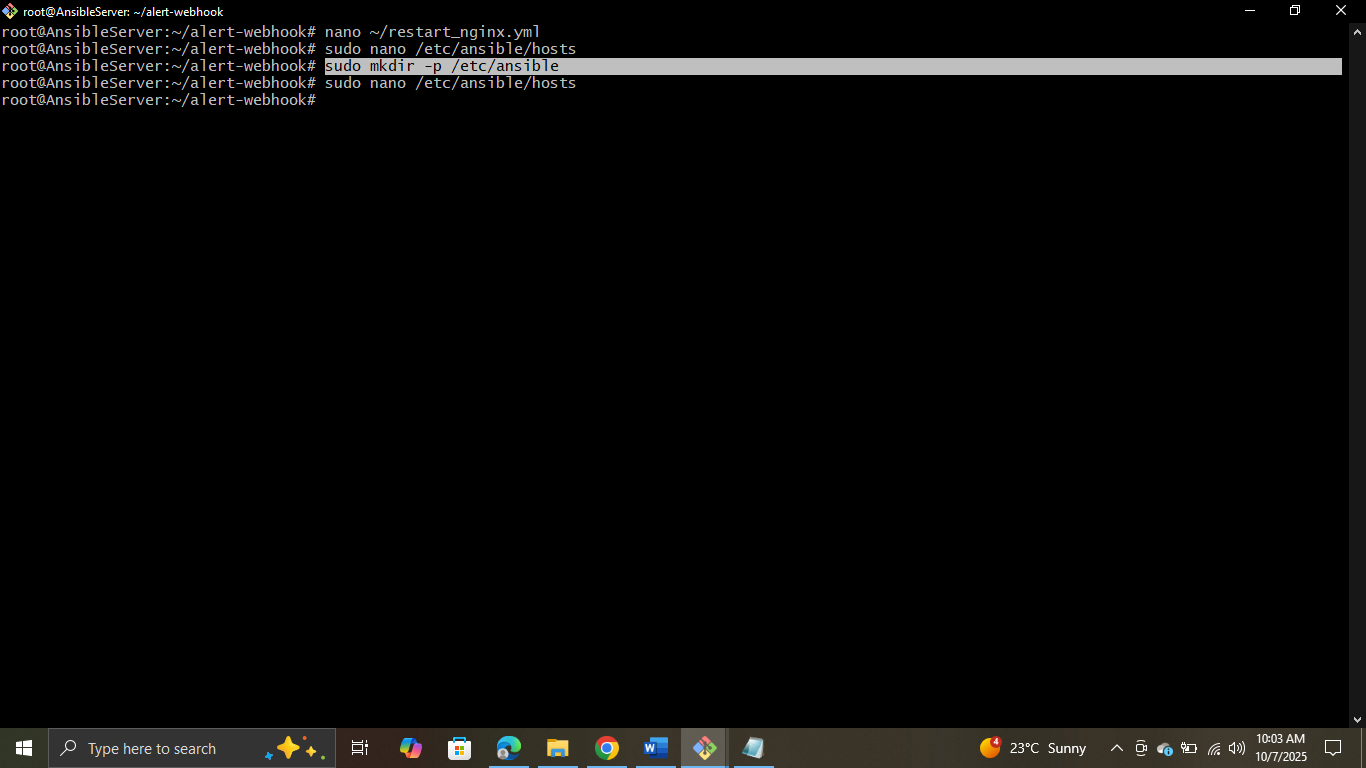
Pasting the code (initially this file was empty)



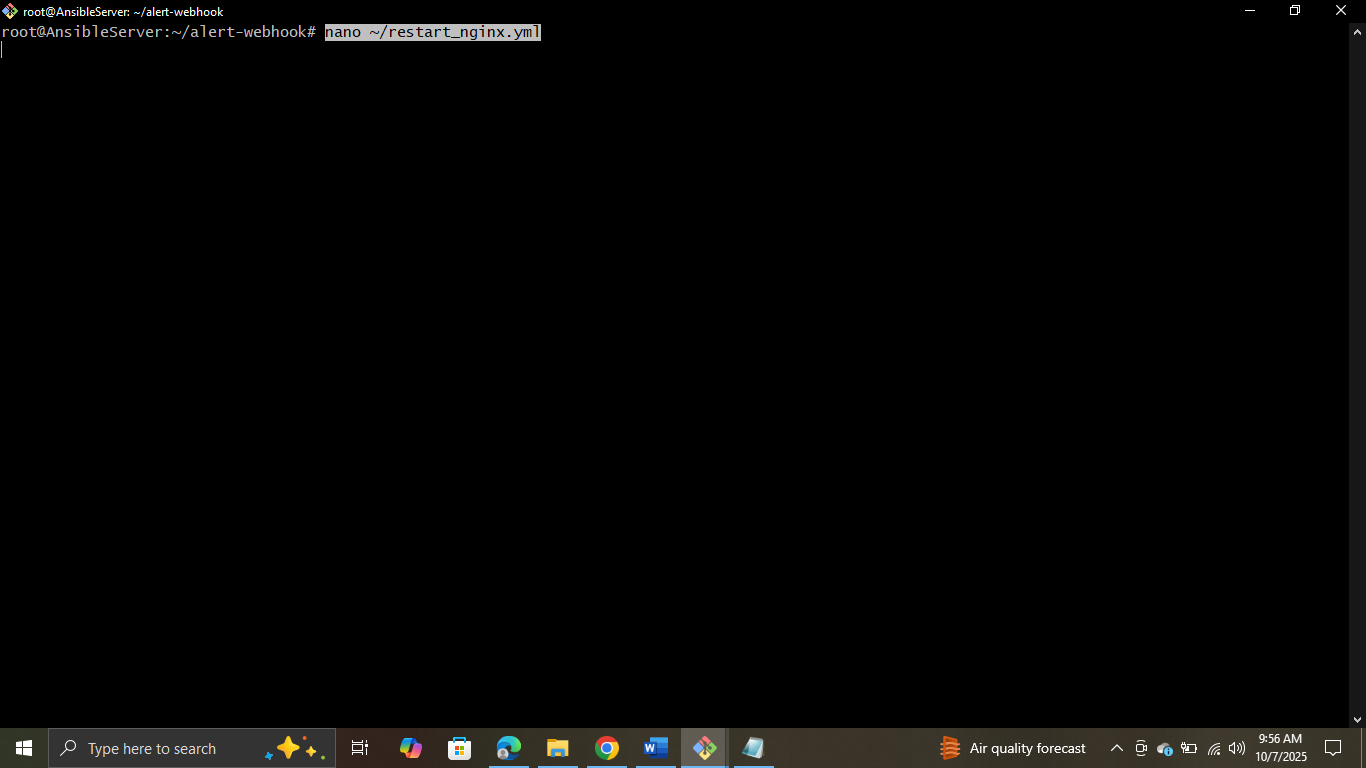
Running the code



Creating Directory



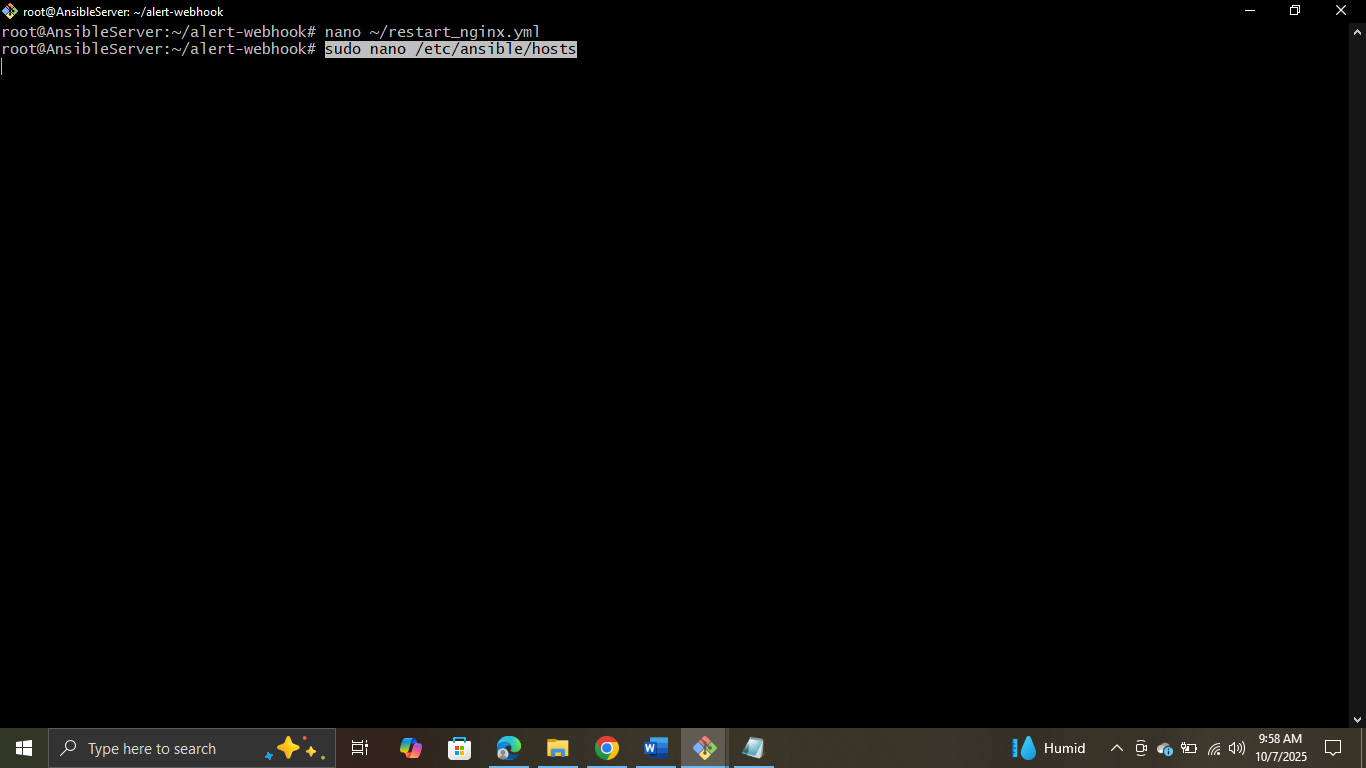
Creating Ansible Playbook



Pasting the code (Initially this file was Empty)

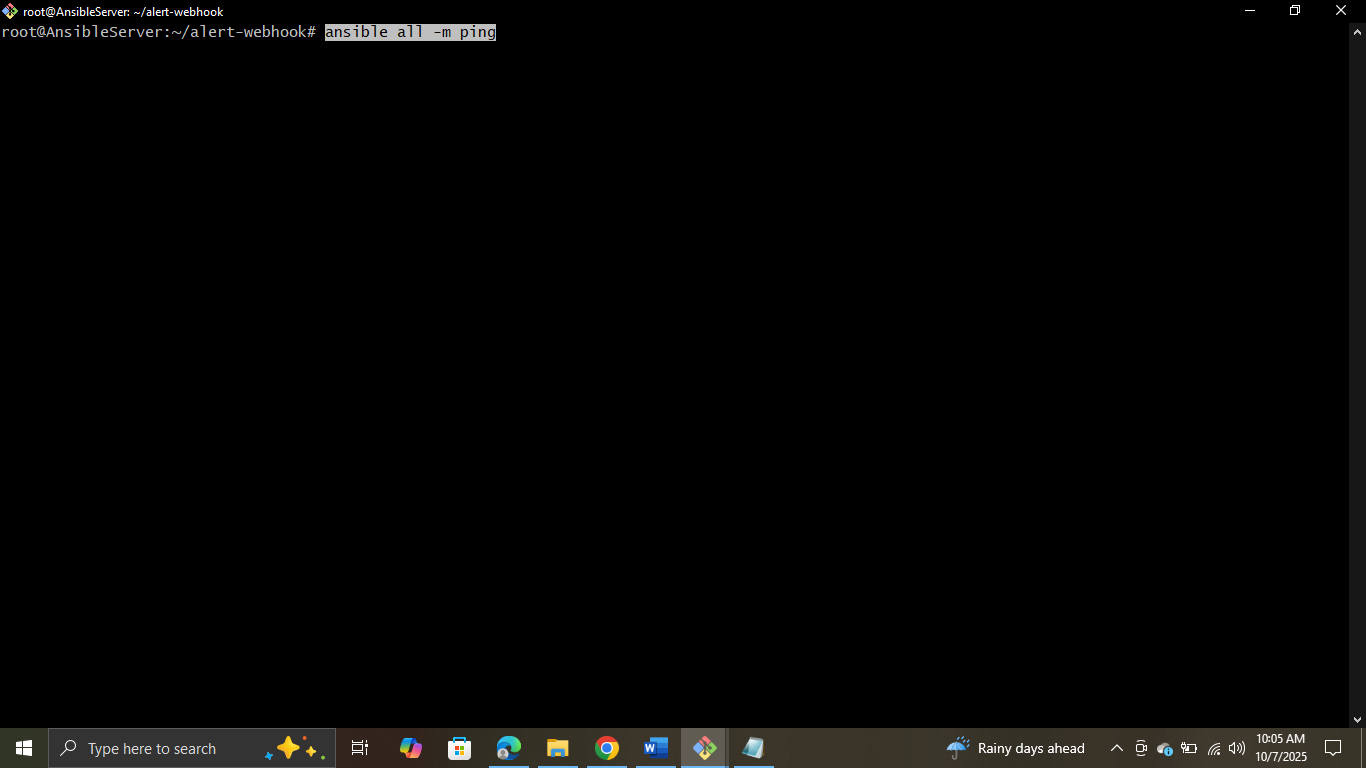


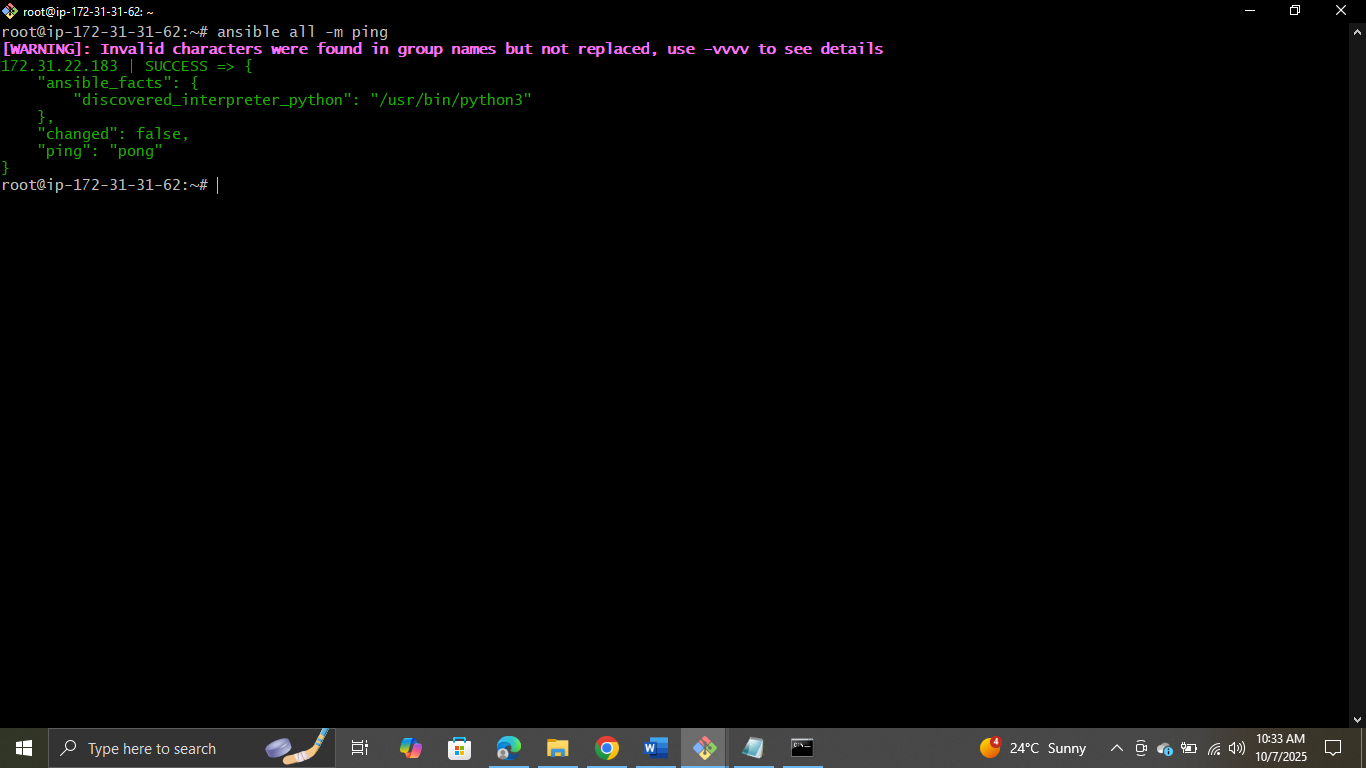
Configuring the Inventory



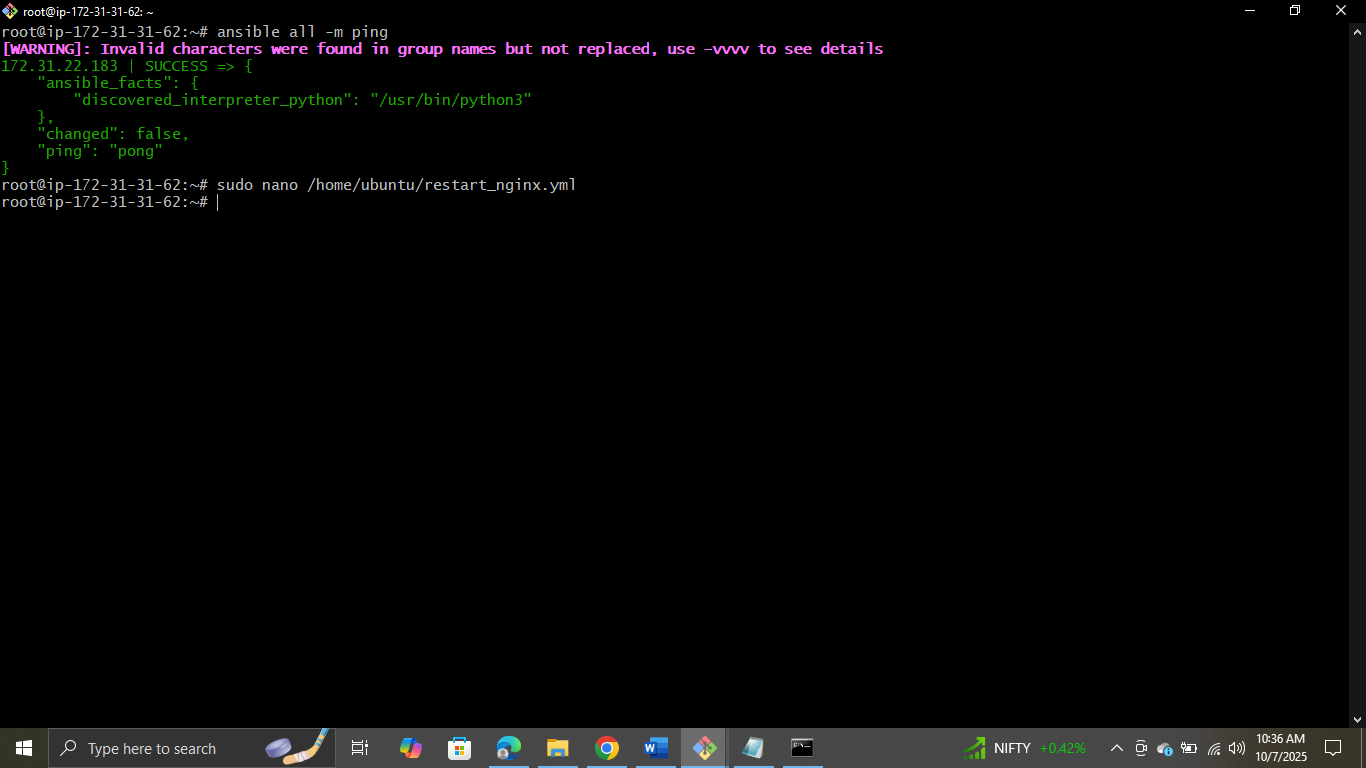


Testing the connection





Creating Ansible Playbook



Adding the changes (File was empty)



