# Lab Exercise 19

**Setting up Snyk for SAST in Jenkins**

**Name- Arin Agrawal**

**SAP ID- 500120660**

**Batch- 1**

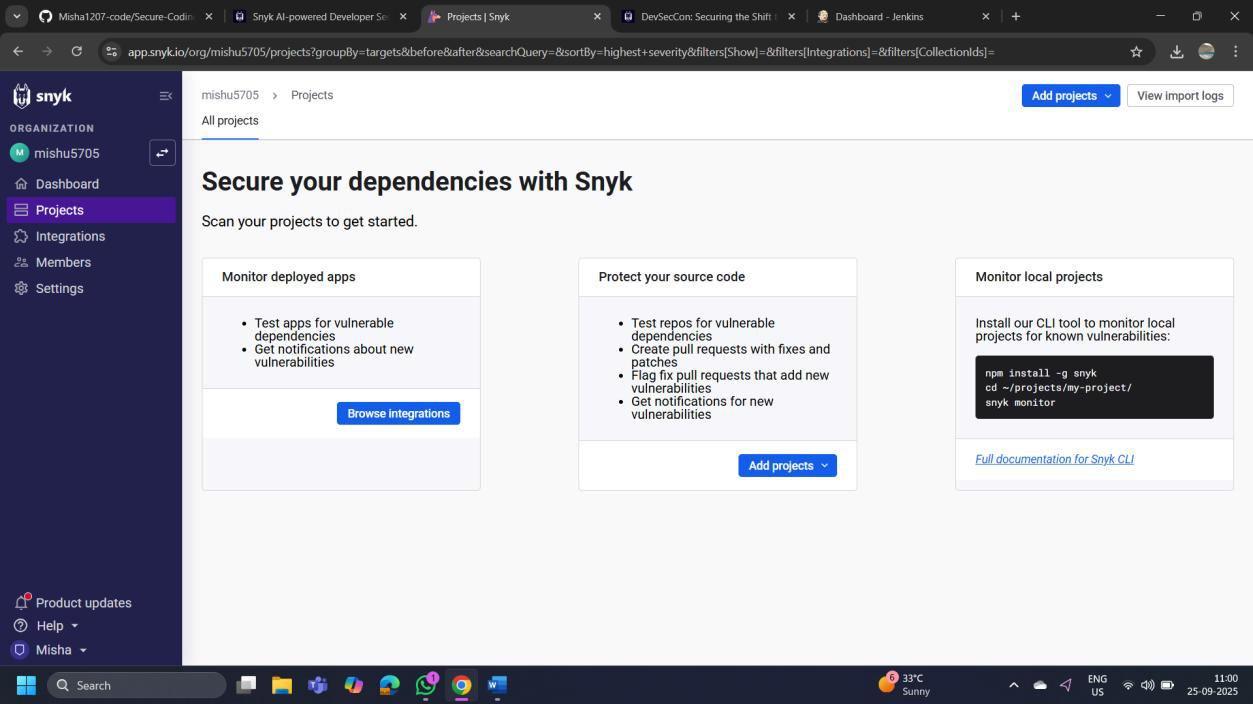


Steps to be followed:

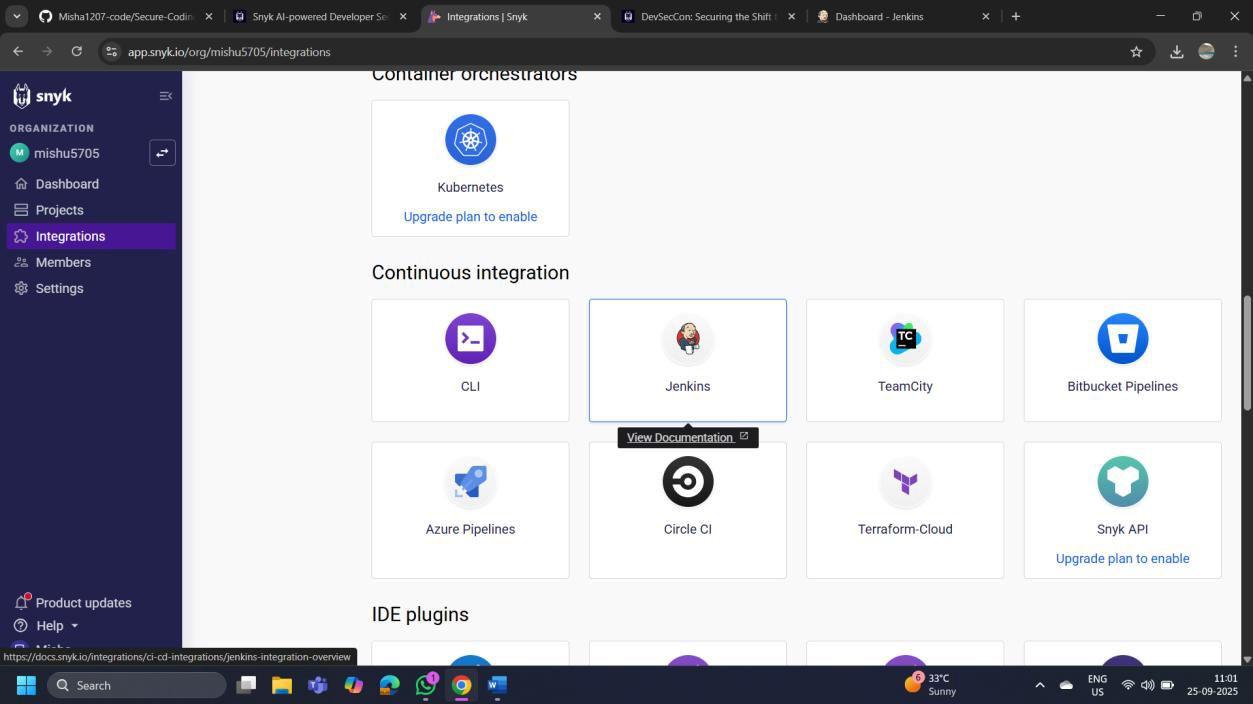
1. Configure Snyk as a SAST scan tool
2. Create and configure a Jenkins job for Snyk integration
3. Manage Snyk API and Jenkins credentials
4. Configure the Jenkins job for scanning

## Step 1: Configure Snyk as a SAST scan tool

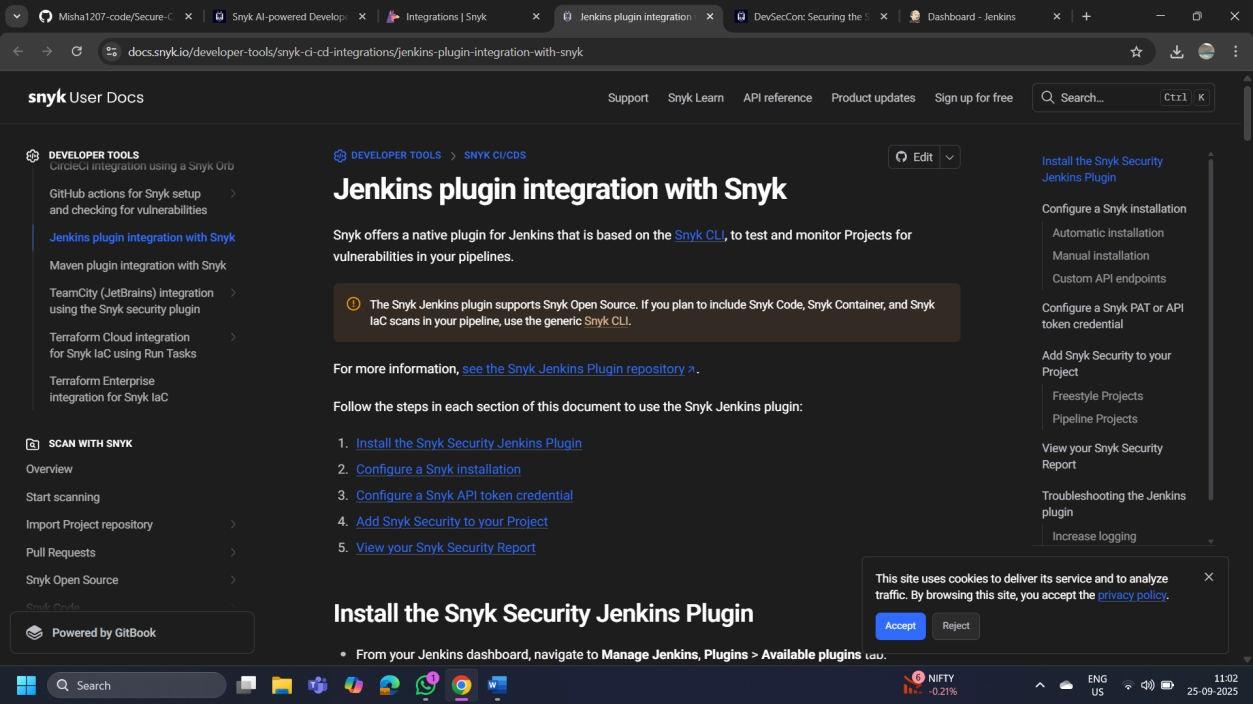
* 1. Visit **https://snyk.io/**, sign up for a new Snyk account, and log in



* 1. Navigate to **Integrations** and select **Jenkins**

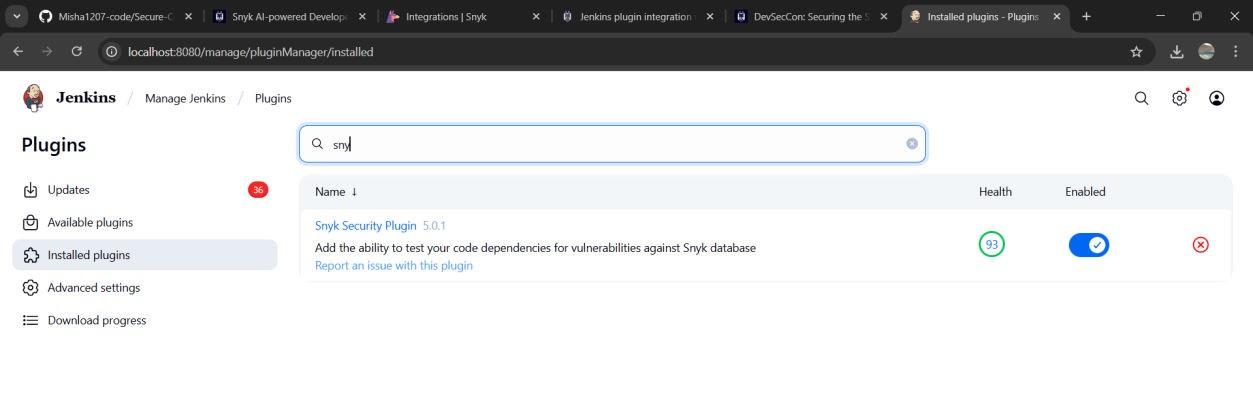


This will direct you to the documentation for integrating Snyk with Jenkins.



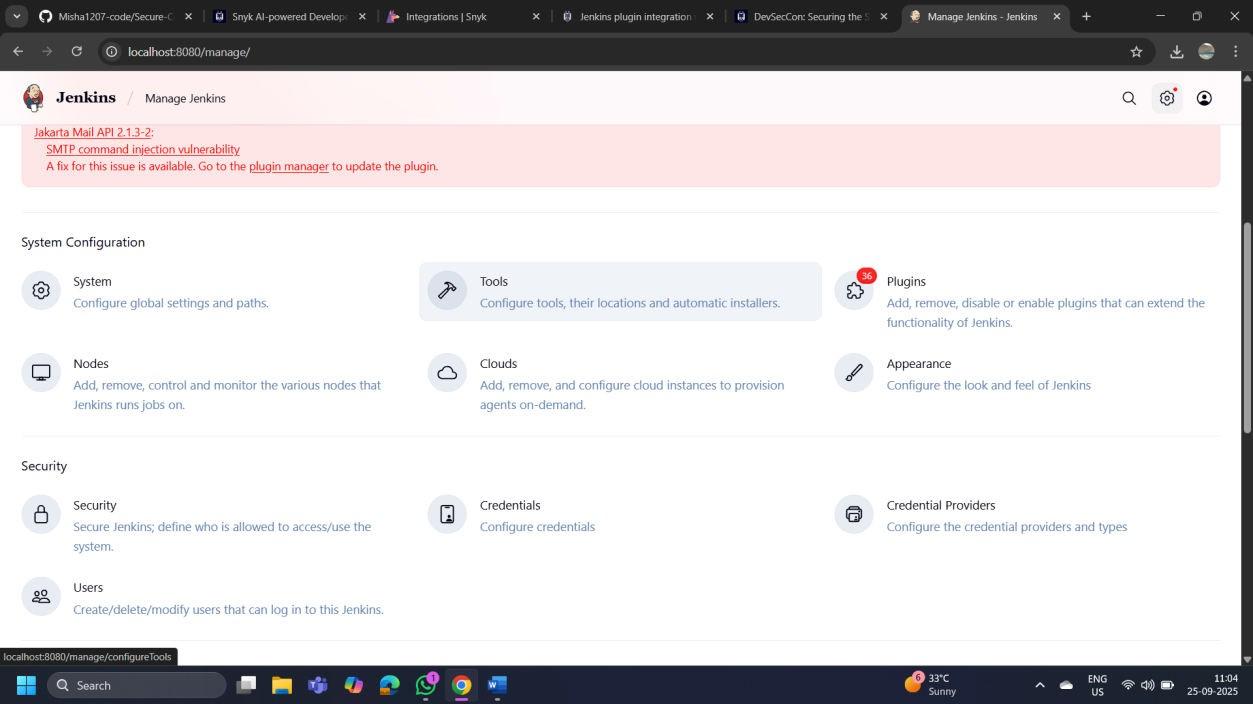
## Step 2: Create and configure a Jenkins job for Snyk integration

* 1. Open Jenkins and log in to the Jenkins account:
  2. To install the Snyk plugin, navigate to **Manage Jenkins** and click **Available Plugins**, search for **Snyk Security** plugin, and then click **Install**

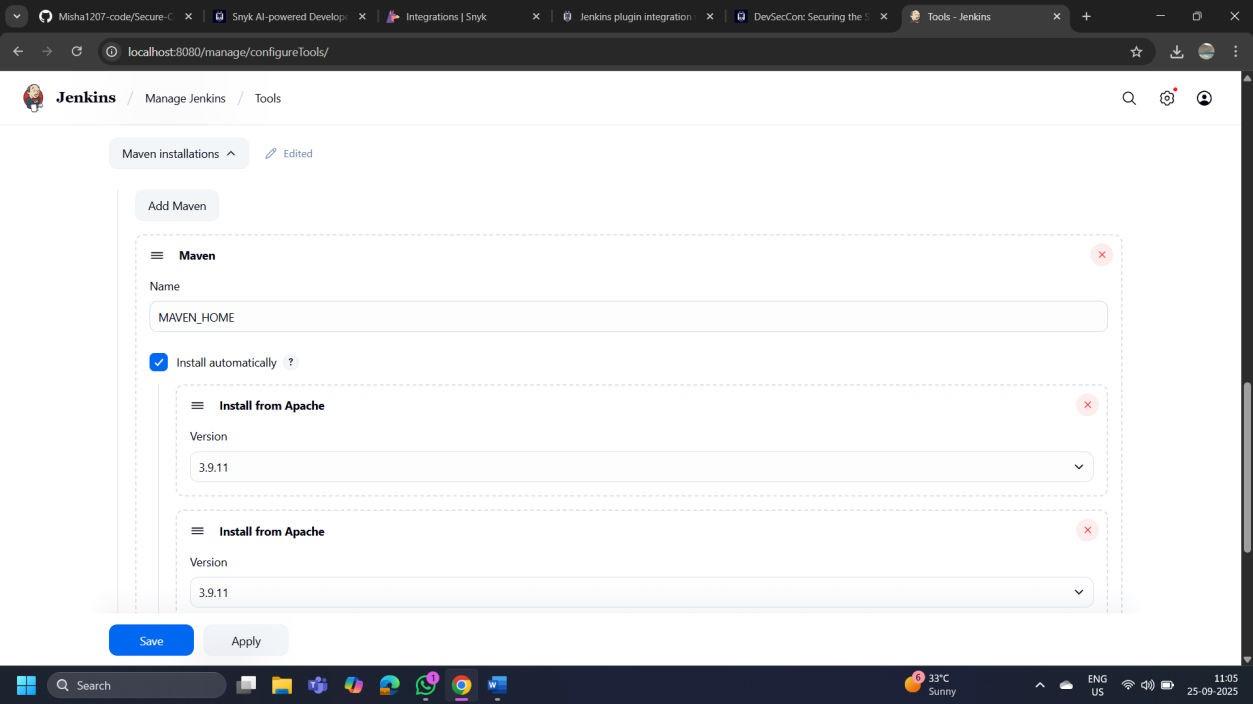


* 1. To configure Maven and Snyk in the **Global Tool Configuration**, click on **Tools** inside

### Manage Jenkins



* 1. To add Maven, click on **Add Maven** under **Maven installations** and enter **Maven** as the **Name**

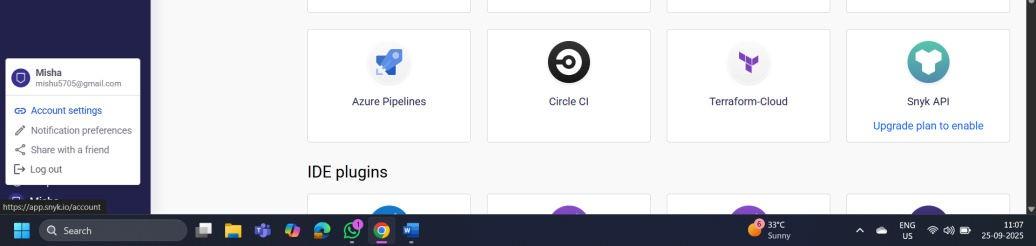


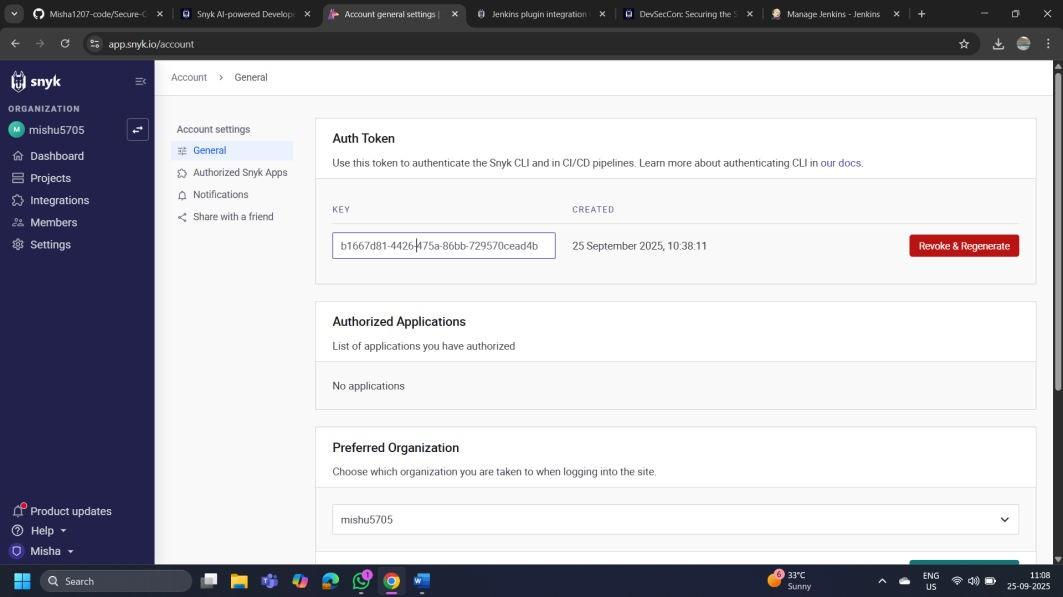
* 1. To add Snyk, click on **Add Snyk** under **Snyk Installations,** add **Name** as **Synk,** and click on the **Save** button

## Step 3: Manage Snyk API and Jenkins credentials

* 1. To retrieve your Snyk API token, go to **Account Settings** in your Snyk account, click on

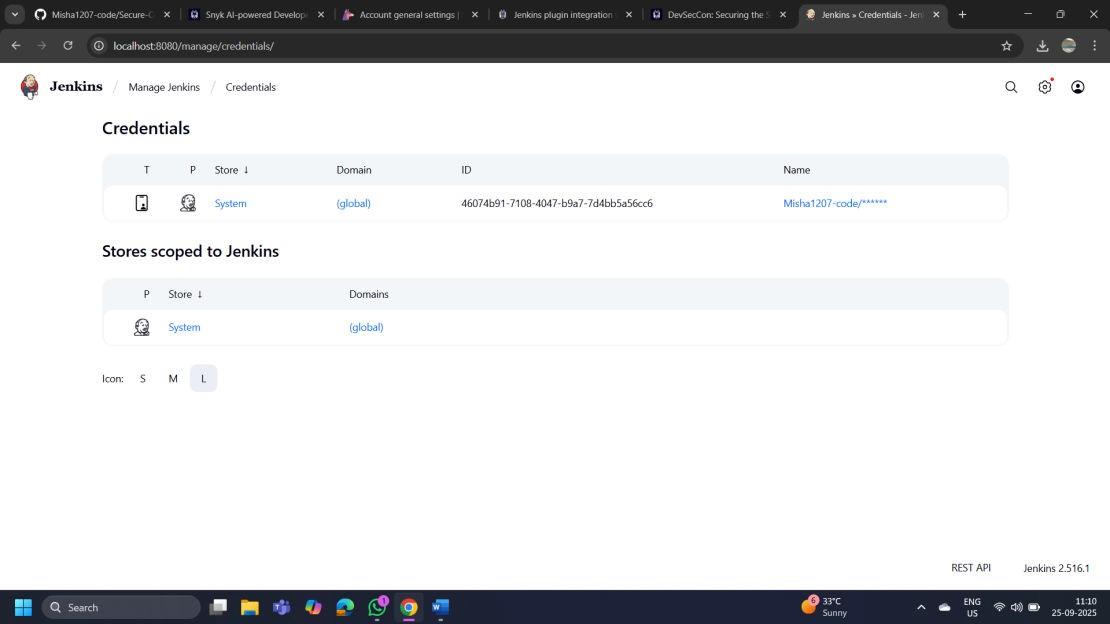
**Click to show** under the Auth Token key field, and copy the token for further reference





* 1. In the Jenkins interface, go to **Manage Jenkins,** select **Security**, then choose

**Credentials** and select **global** to add global credentials



* 1. Click on **Add Credentials**, select the **Snyk API token** from the **Kind** field, paste the copied token from step 3.1 into the **Token** field, and then click the **Create** button

## Step 4: Configure the Jenkins job for scanning

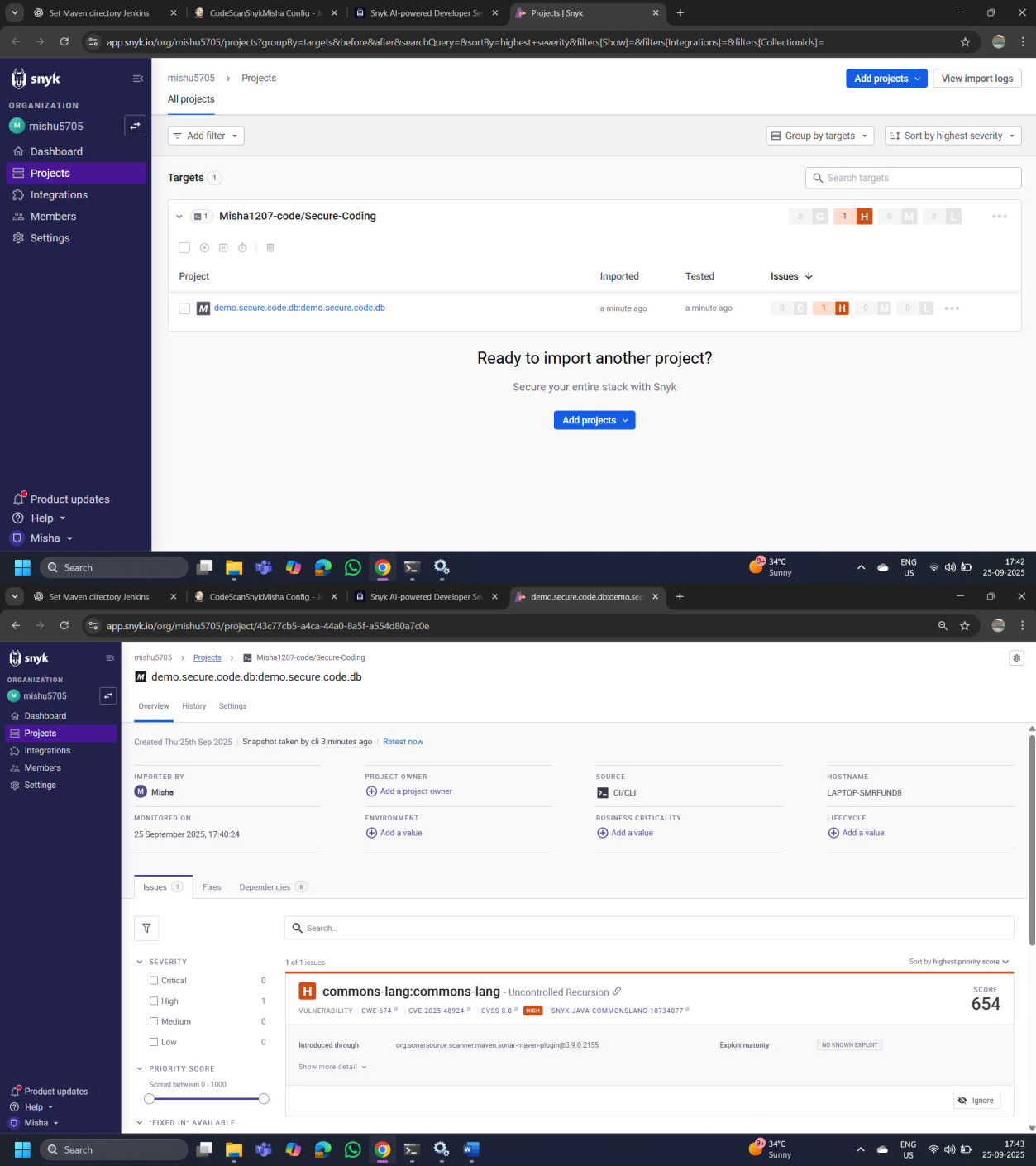
* 1. To create a new Jenkins job, click on **New Item**, enter the item name as

**CodeScanSnyk**, select **Freestyle project**, and then click **OK**

* 1. After creating a job, go to **Source Code Management** and enter the GitHub repository URL. Then, under **Build Steps**, add the build step **Invoke Snyk Security task** with the name **SnykToken**. Finally, click the **Save** button to create the build
  2. To check the build status, click on the build link under **Permalinks.** After that, click on

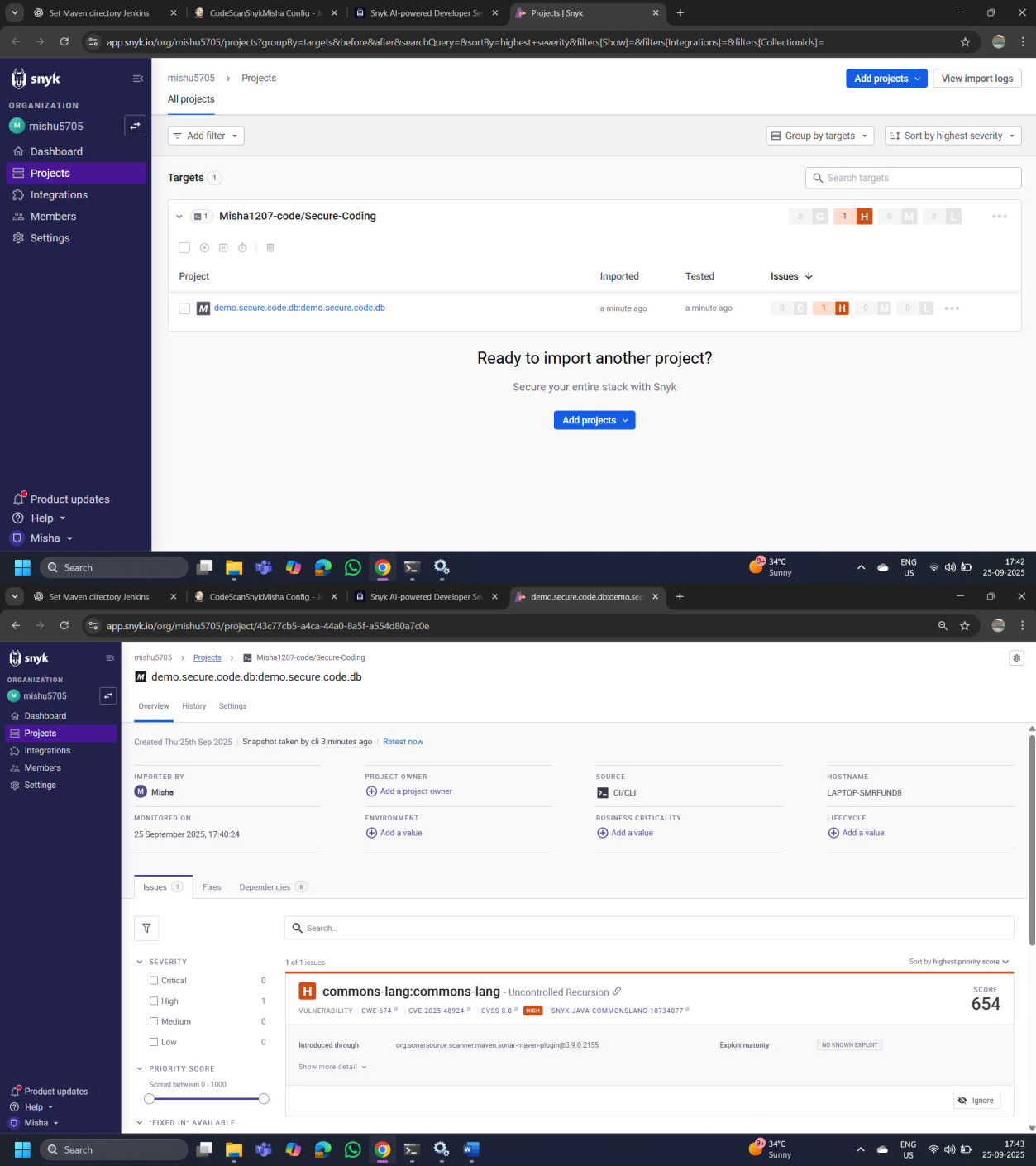
### Console Output

* 1. To navigate to the Snyk tool to review code, scan reports under the **Projects** section



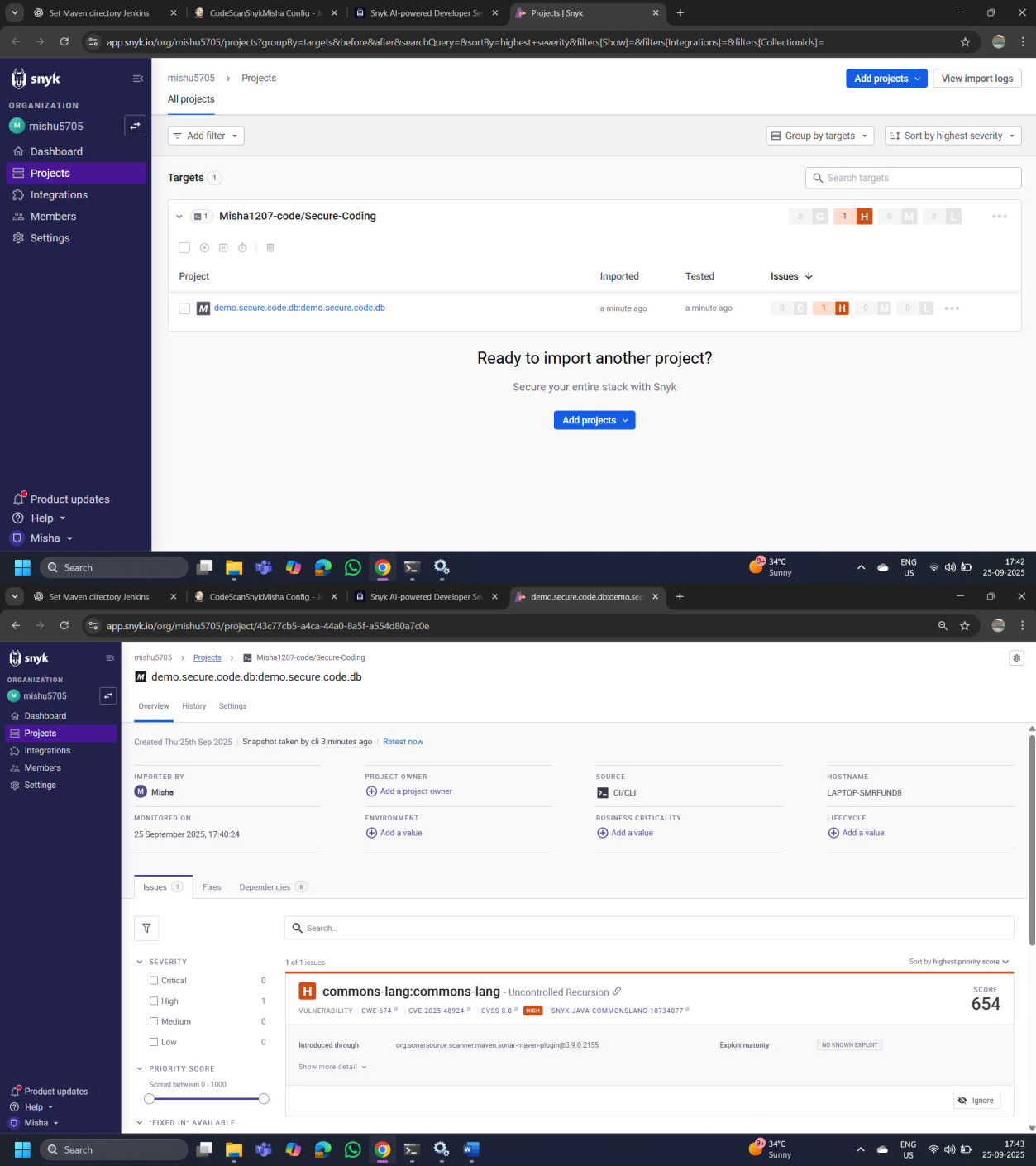
By following the above steps, you have successfully demonstrated the setup of the Snyk plugin in Jenkins for static application security testing (SAST), to automatically detect vulnerabilities in their codebase during development, thereby enhancing application security before deployment.

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By following the above steps, you have successfully demonstrated the setup of the Snyk plugin in Jenkins for static application security testing (SAST), to automatically detect vulnerabilities in their codebase during development, thereby enhancing application security before deployment.

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By following the above steps, you have successfully demonstrated the setup of the Snyk plugin in Jenkins for static application security testing (SAST), to automatically detect vulnerabilities in their codebase during development, thereby enhancing application security before deployment.