Prerequire:

* EC2 VM that is created in terraform infrastructure
* Setup Jenkins, Docker, awscli, kubectl, trivy in EC2

Repo Jenkins Shared Libraries + CD JenkinsFile at: [hieptran228/sd4871\_devops (github.com)](https://github.com/hieptran228/sd4871_devops)

Repo sample MSA app at: [hieptran228/sd4871\_msa (github.com)](https://github.com/hieptran228/sd4871_msa)

1. Finish setup jenkins and logged in.
2. Install Jenkins plugin:

* Jenkins suggested
* Amazon ECR – help get ECR password
* Docker Pipeline
* Pipeline Utility Steps
* Kubernetes
* HTMLPublisher

1. Add credentials:

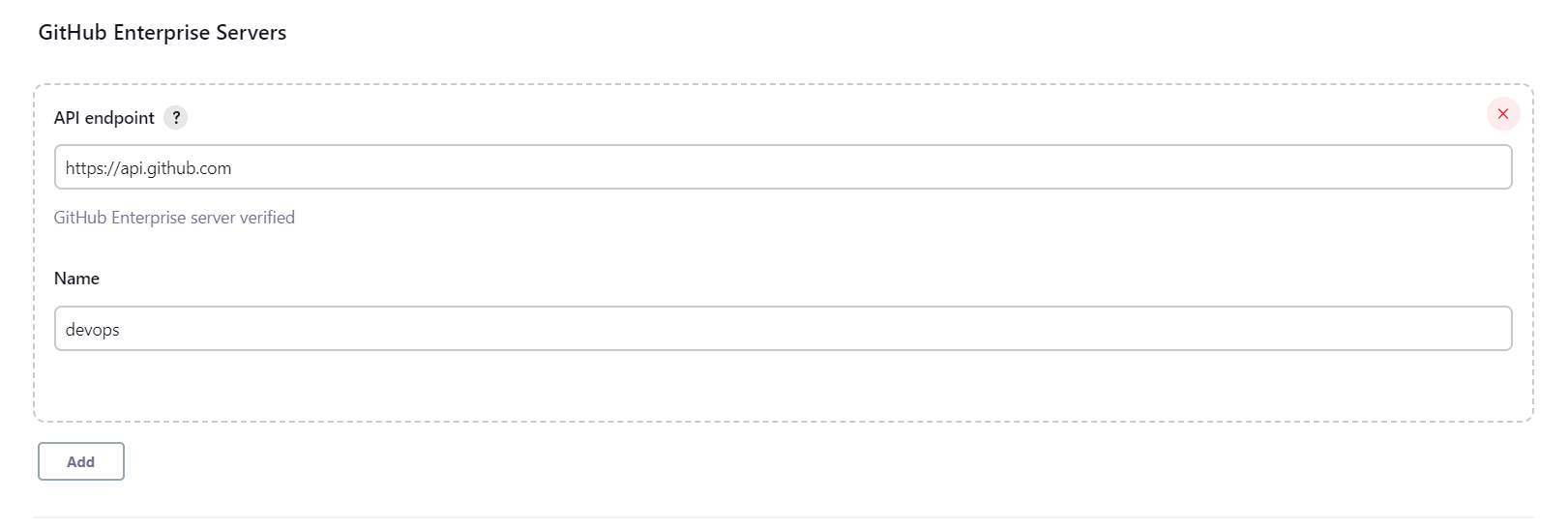
* GitHub with Kind Username with password (ID name: github)
* kubeconig with Kind Secret file (ID name: eks-dev)
* AWS with kind AWS Credential (ID name: aws-cred)

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1. Manage Jenkins -> System

* GitHub Enterprise Servers
  + API endpoint: [https://api.github.com](https://api.github.com/)
  + Name: devops

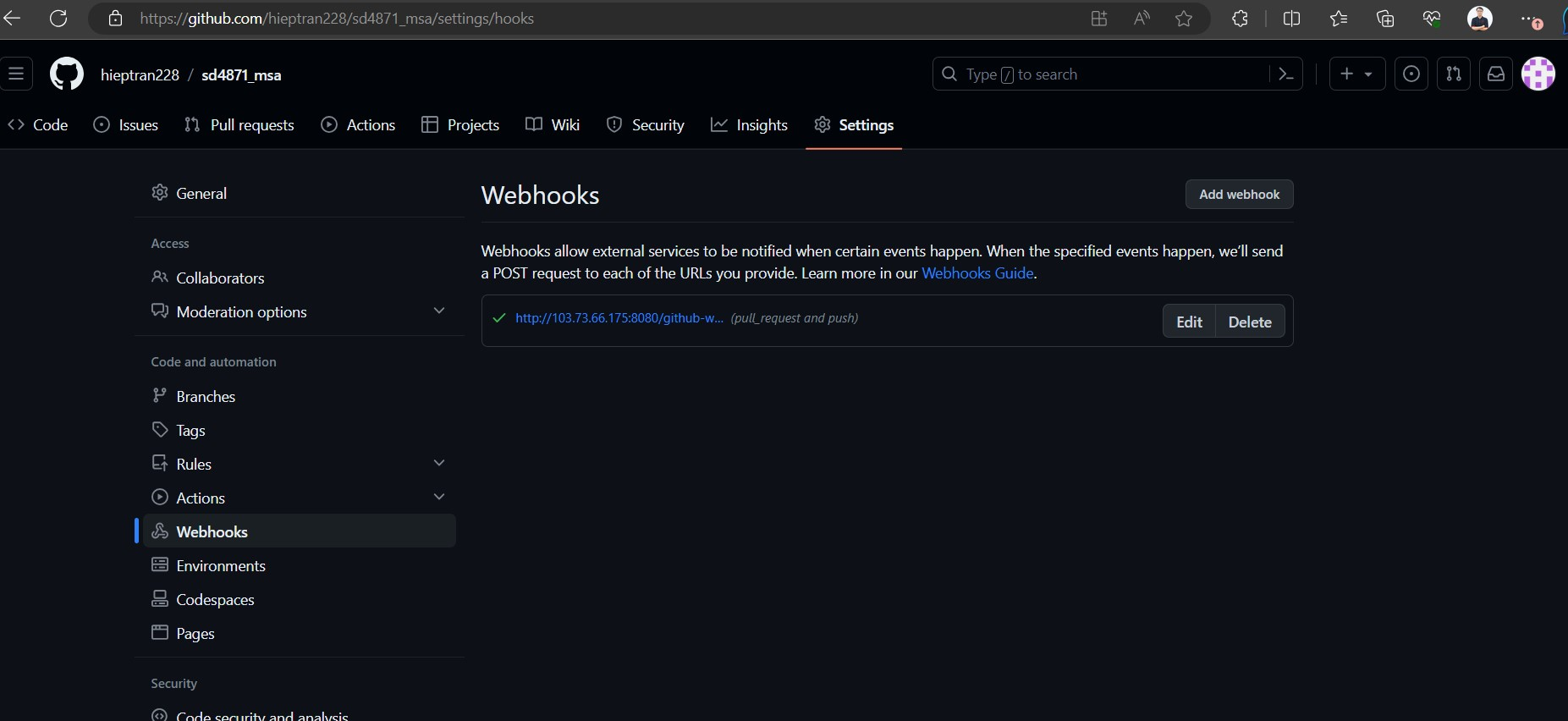


* Global Pipeline Libraries
  + Name: devops-jenkins-ci
  + Default version: main
  + Allow default version to be overridden.
  + Include @Library changes in job recent changes.
  + Retrieval method: Modern SCM
    - Source Code Management: Git
    - Project Repository: https://github.com/hieptran228/sd4871\_devops.git
    - Credentials: github

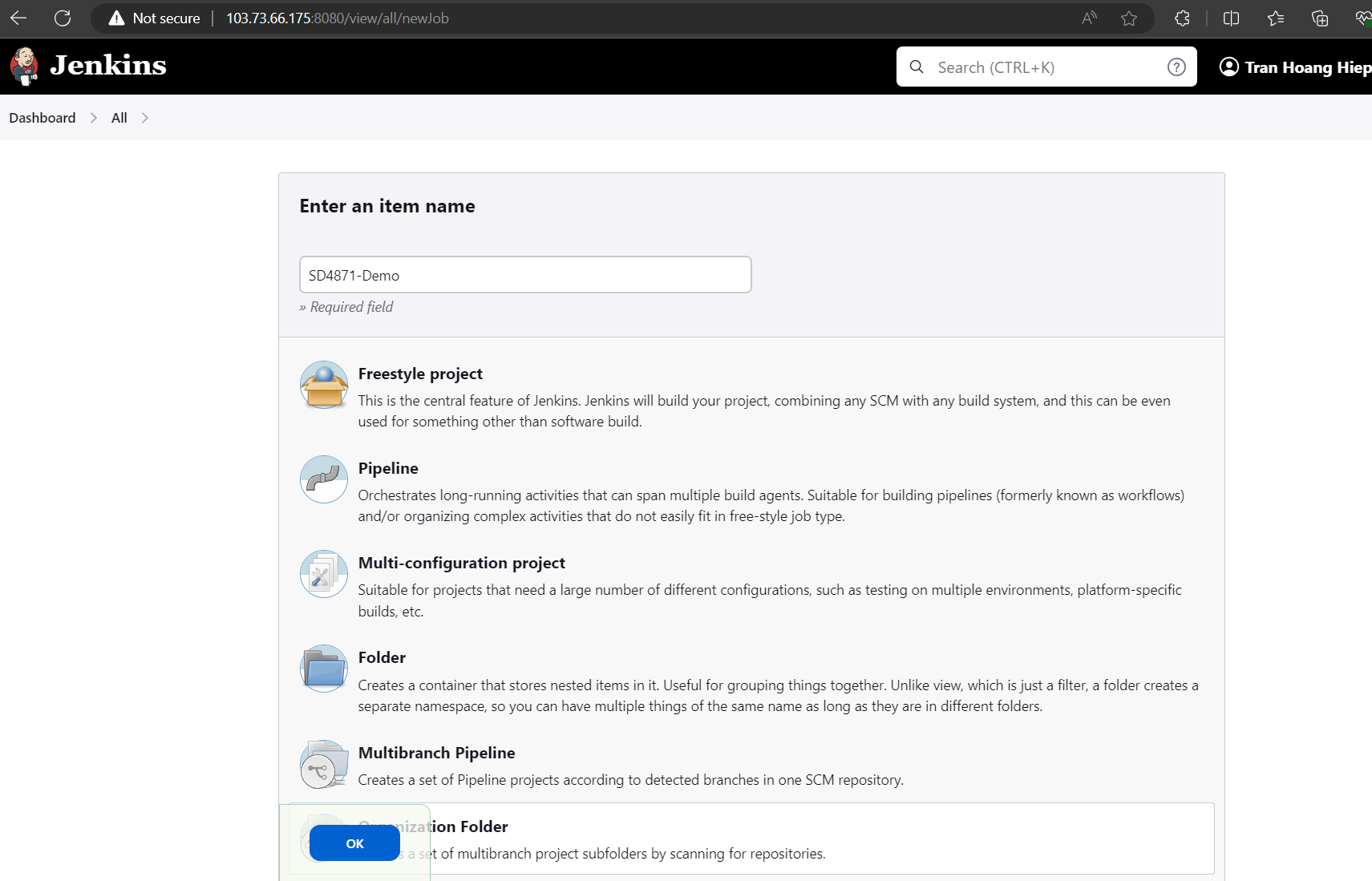
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1. Setup github webhook for MSA and Devops repo point to jenkins server (jenkins-endpoint/github-webhook) for pull request and push



1. Create jenkins job (Organization Folder) -> OK



1. Projects section. Add:

* Credentials: hieptran228/\*\*\*\*\*\* (Github token)
* Owner: hieptran228

Then Save. Jenkins will scan. Result:

1. When a change to the MSA app is pushed to github. Jenkins pipeline triggered. The MSA app is pushed successful to repo. Trivy report should be in

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A close-up of a document

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ECR Repos pushed with new tag

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