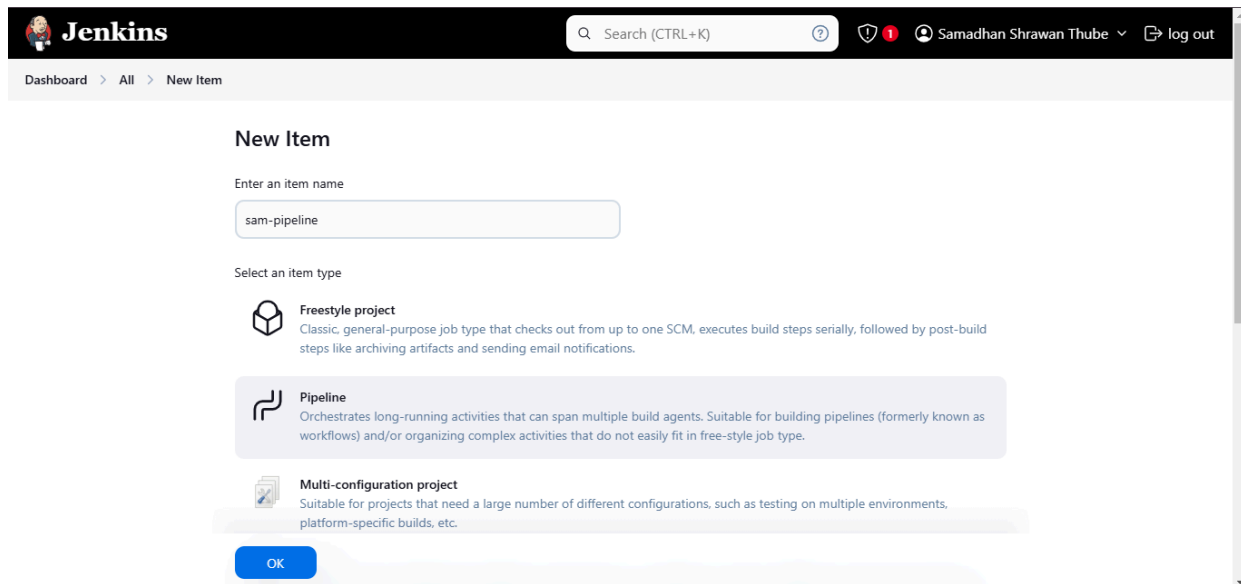


Steps to create a New Pipeline Project in Jenkins

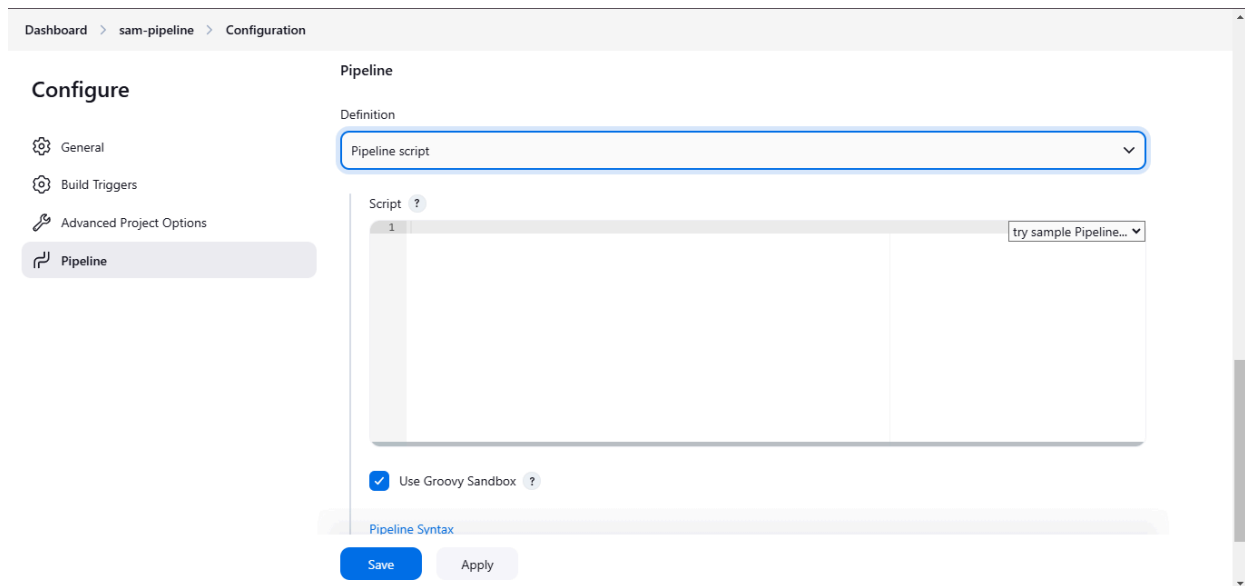
Create New Job

- From the Jenkins dashboard, click on New Item.
- Enter a name for your job (e.g., DjangoAppPipeline).
- Select Pipeline and click OK.



Configure Pipeline Script

- In the job configuration page, scroll down to the Pipeline section.
- Choose Pipeline script from the Definition dropdown.



Enter Pipeline Script

Here's the basic pipeline script for our Django application

```
pipeline {
  agent any

  stages {
    stage('Checkout Code from GitHub') {
      steps {
        script {
          echo "Cleaning workspace before checkout"
          cleanWs() // Clean the workspace

          echo "Cloning the latest code from the GitHub repository"
          sh "git clone --branch dev
https://github.com/samthube/fundoo-notes-copy.git $WORKSPACE"
        }
      }
    }

    stage('Sync Application to Backend Server') {
      steps {
        script {
          echo "Syncing the application to backend/app server"
          sh ""
        }
      }
    }
  }
}
```

```
        rsync -avz $WORKSPACE/  
samthube@20.204.101.130:/tmp/sam-freestyle
```

```
        ""  
    }  
}  
}
```

```
stage('Copy Files to Destination Directory') {  
    steps {  
        script {  
            echo "Copying files to the destination directory on the app server"  
            sh ""  
                ssh samthube@20.204.101.130 'cp -rv  
/tmp/sam-freestyle/fundoo_notes/* /home/samthube/fundoo-notes-copy/'  
            ""  
        }  
    }  
}
```

```
    }  
}
```

```
stage('Install Dependencies') {  
    steps {  
        script {  
            echo "Installing dependencies on the app server"  
            sh ""  
                ssh samthube@20.204.101.130 '  
                source /home/samthube/myenv/bin/activate &&  
                pip install -r /home/samthube/fundoo-notes-copy/requirements.txt &&  
                pip install django  
            ,  
            ""  
        }  
    }  
}
```

```
    }  
}
```

```
stage('Run Migrations') {  
    steps {  
        script {  
            echo "Running database migrations"  
            sh ""  
                ssh samthube@20.204.101.130 '  
            ""  
        }  
    }  
}
```

```
source /home/samthube/myenv/bin/activate &&
python /home/samthube/fundoo-notes-copy/manage.py
makemigrations &&
python /home/samthube/fundoo-notes-copy/manage.py migrate
'''
}
}
}

stage('Start Django Server') {
    steps {
        script {
            echo "Starting Django server on port 8000"
            sh '''
                ssh samthube@20.204.101.130 'sudo systemctl restart
fundoo_notes.service'
            '''
        }
    }
}

stage('Check Server Status') {
    steps {
        script {
            echo "Checking the status of the Django server"
            sh '''
                ssh samthube@20.204.101.130 'sudo systemctl status
fundoo_notes.service'
            '''
        }
    }
}
}
```

Dashboard > sam-pipeline > Configuration

Configure

- General
- Build Triggers
- Advanced Project Options
- Pipeline**

Definition

Pipeline script

Script ?

```
1 pipeline {
2   agent any
3
4   stages {
5     stage('Checkout Code from GitHub') {
6       steps {
7         script {
8           echo "Cleaning workspace before checkout"
9           cleanWs() // Clean the workspace
10
11           echo "Cloning the latest code from the GitHub repository"
12           sh "git clone --branch dev https://github.com/samthube/fundoo-notes-copy.git $WORKSPACE"
13         }
14       }
15     }
16   }
17 }
18 }
```

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save Apply

Save and Build

- Click on the Save button at the bottom of the configuration page.
- To run your job, go back to the job page and click on Build Now.
- Monitor the build process by clicking on the build number in the build history.