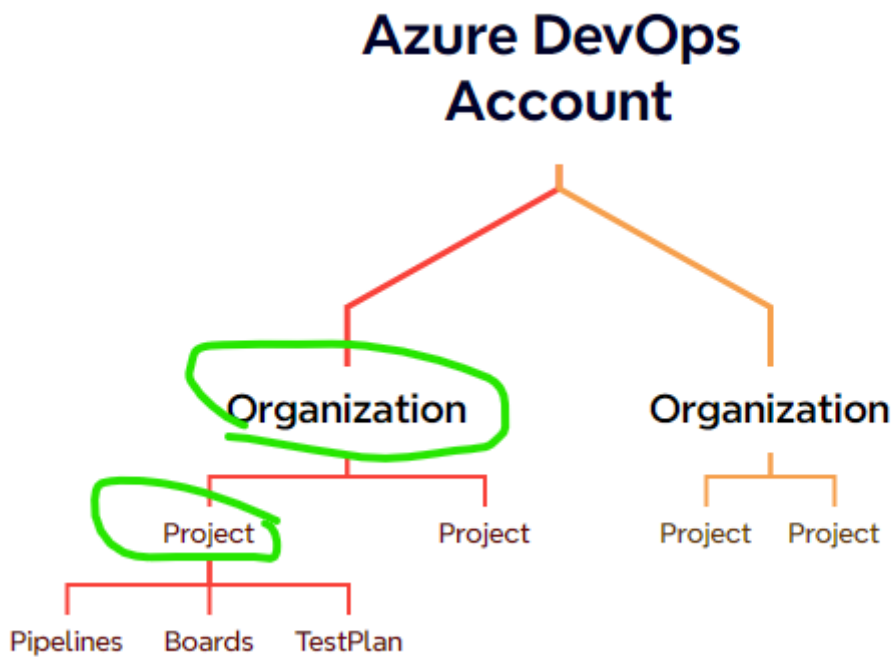


## Azure DevOps

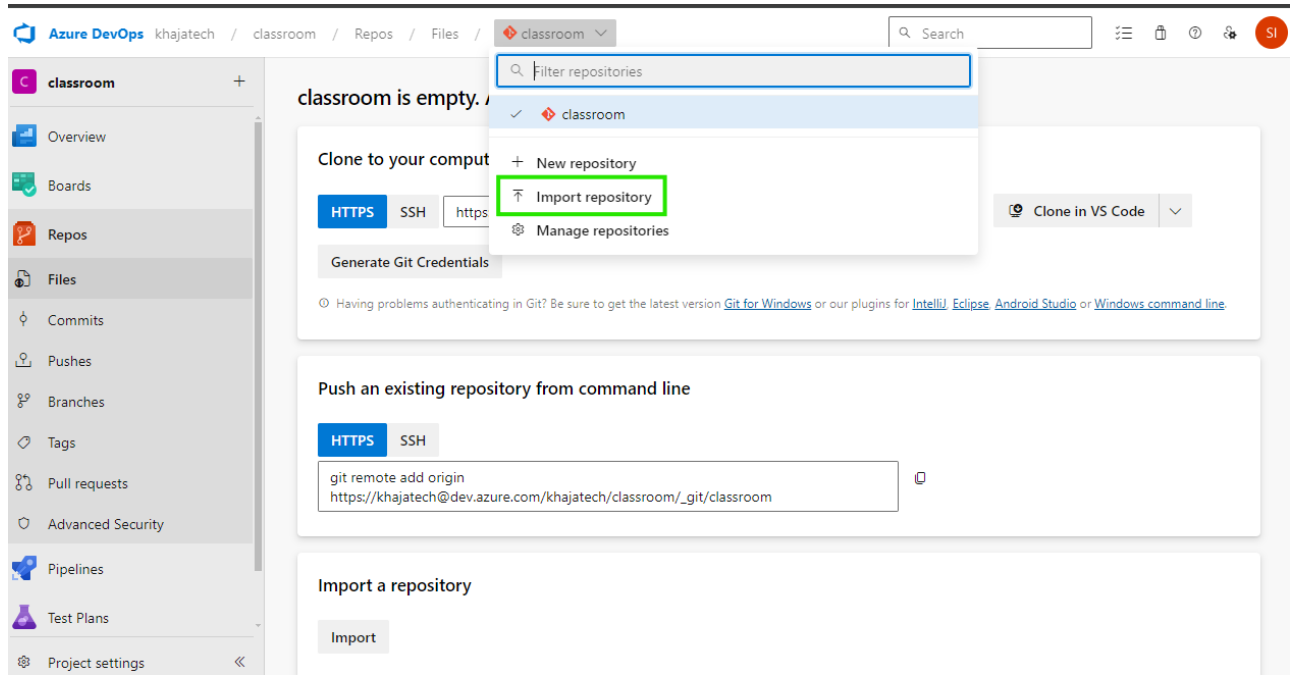
- Two options of using Azure DevOps
  - Self Hosted:
    - You need to manage, i.e. install Azure DevOps on Windows Servers
    - [Refer Here](#) for the Azure DevOps Server and [Refer Here](#) for different options
  - Cloud Hosted
    - You can create an account in Azure DevOps or use Azure DevOps with your azure account.
    - Here we can start with a github account [Refer Here](#)
- Azure DevOps Organized

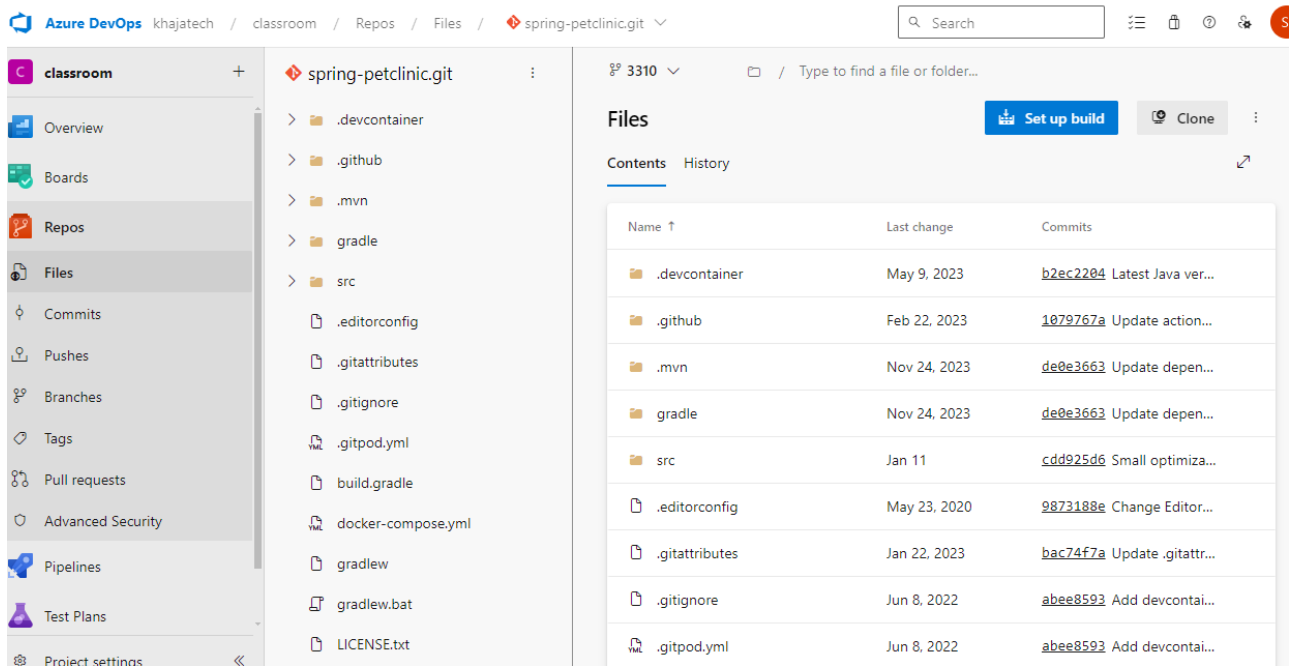
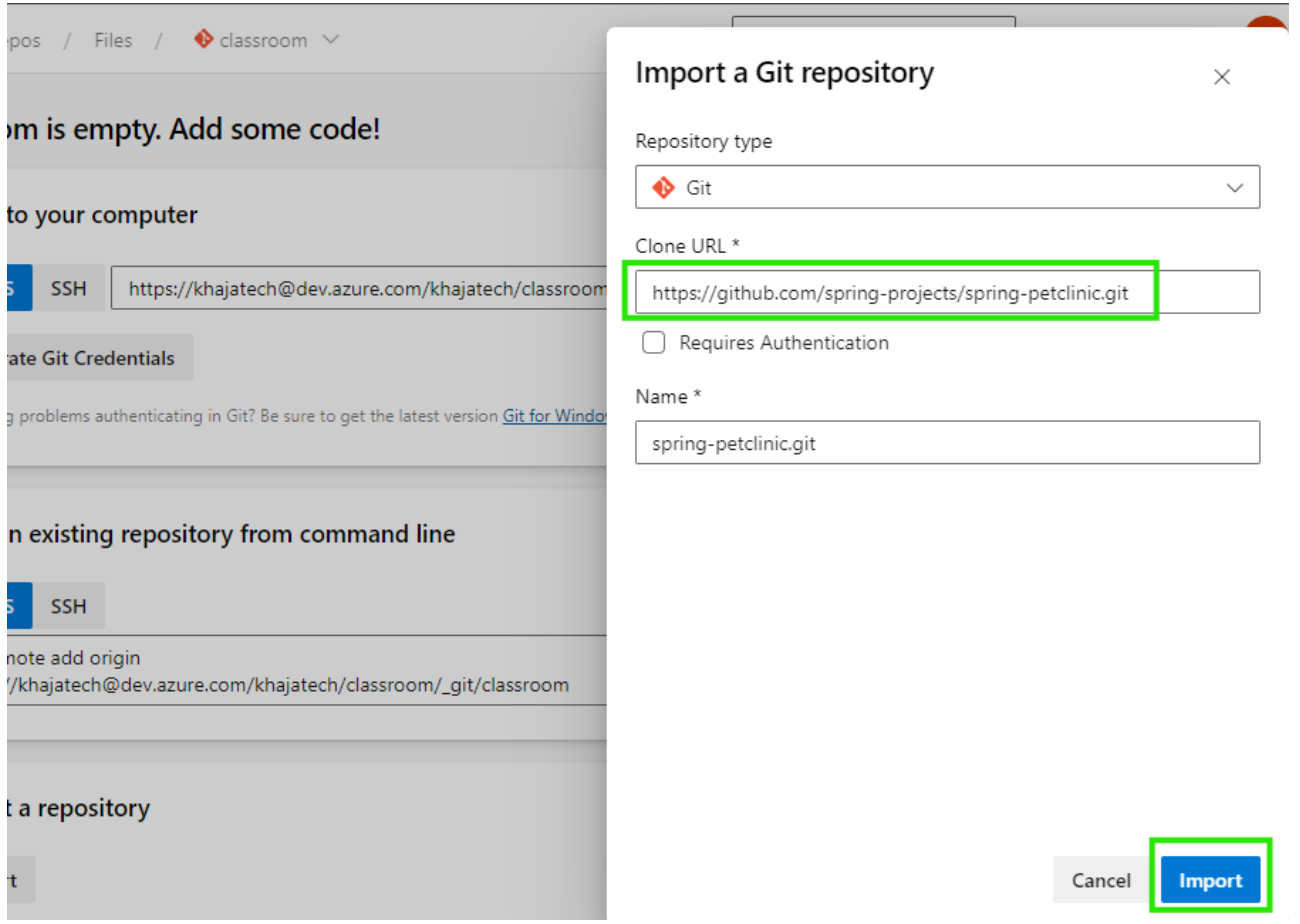


- Creating organization [Refer Here](#)
- Creating Projects [Refer Here](#)

Activity 1: Lets import spring petclinic repo into Azure DevOps Project

- Import the repository from <https://github.com/spring-projects/spring-petclinic.git>





- Now lets set the default branch

The screenshot shows the Azure DevOps interface for a repository named 'spring-petclinic.git'. The left sidebar contains a navigation menu with 'Branches' highlighted in green. The main content area shows the 'Files' view with a table of repository files.

Name ↑	Last change	Commits
.devcontainer	May 9, 2023	<a href="#">b2ec2204</a> Latest Java ver...
.github	Feb 22, 2023	<a href="#">1079767a</a> Update action...
.mvn	Nov 24, 2023	<a href="#">de0e3663</a> Update depen...
gradle	Nov 24, 2023	<a href="#">de0e3663</a> Update depen...
src	Jan 11	<a href="#">cdd925d6</a> Small optimiza...
.editorconfig	May 23, 2020	<a href="#">9873188e</a> Change Editor...
.gitattributes	Jan 22, 2023	<a href="#">bac74f7a</a> Update .gitattr...
.gitignore	Jun 8, 2022	<a href="#">abee8593</a> Add devcontai...
.gitpod.yml	Jun 8, 2022	<a href="#">abee8593</a> Add devcontai...

Azure DevOps interface showing the 'Branches' page for a repository named 'spring-petclinic.git'. The 'main' branch is highlighted with a green box. A context menu is open over the 'main' branch, with 'Set as default branch' highlighted in green.

Branch	C...	Author	Auth...	Behind	Ahead	S...	P...
hacking							
mysql	a267	Sébasti...	Oct ...	55	2		
3310	24ea	Dave S...	Jan 22	42	1		
efficient-webjars	30e1	Sébasti...	Oct ...	102	1		
gh-pages	193b	Spring ...	Mar ...	922	44		
main	d8fc	Stépha...	May ...	1	42		
springboot3	dade	Dave S...	Dec ...	54	0		
wavefront	bf04	Stepha...	May ...	155	2		

Azure DevOps interface showing the 'Branches' page for a repository named 'spring-petclinic.git'. The 'main' branch is highlighted with a green box, and the 'Default' and 'Compare' buttons are also highlighted with a green box.

Branch	C...	Author	Auth...	Behind	Ahead	S...	P...
hacking							
mysql	a267	Sébasti...	Oct ...	96	2		
3310	24ea	Dave S...	Jan 22	42	1		
efficient-webjars	30e1	Sébasti...	Oct ...	102	1		
gh-pages	193b	Spring ...	Mar ...	922	44		
main	d8fc	Stépha...	May ...	1	42		
springboot3	dade	Dave S...	Dec ...	95	0		
wavefront	bf04	Stepha...	May ...	196	2		

## Activity 2: Setup Pipeline

- Steps:

```
# clone git repo
mvn clean package
```

- If we want to achieve the same in azure devops, We need to understand the concept of agents
- Agents are where the pipeline execution happens

### Agents:

- Agents are systems on which pipeline executes.

- Microsoft gives us 4 options
  - Microsoft Hosted Agents:
    - Microsoft will create a vm with necessary os and softwares
  - Self Hosted Agents
    - This is your system where you need to configure the agent
  - Virtual Machine Scalesets
    - If you need multiple servers and have azure account, agents can be configured over here
  - Containers
    - Containers can be used as agents
- Free Plan: [Refer Here](#)
- Microsoft Hosted Agents: [Refer Here](#)
- Self hosted Agents:
  - Three os supported
    - Windows
    - Linux
    - Mac
  - You need to setup agent
- Watch classroom video for pipeline setup

## How to write a pipeline

- In yaml by following a schema [Refer Here](#)
- Exercise:
  - What are classic pipelines in Azure DevOps
- GitHub account creation: [Refer Here](#)