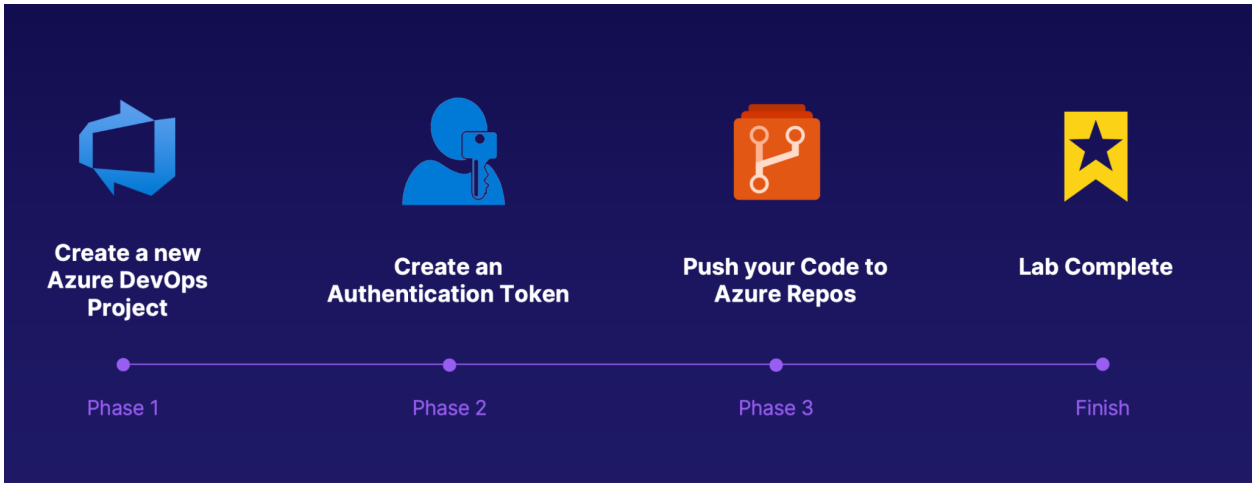
Authenticate to Azure Repos Using an Authentication Token

Introduction

In this lab, you will create a new DevOps organization, followed by a new Azure DevOps project. Within your new project, you will go to Azure Repos and initialize a new Git repository. Clone the repository down to a Linux VM, make a small change, and then push your changes to that same Git repo.



1. Create a New Azure DevOps Organization and Project

1. In the Azure portal, click the hamburger menu in the upper left corner.
2. Click on All services.
3. In the search bar, search for "Azure DevOps". Select Azure DevOps organizations.
4. Scroll down and click on My Azure DevOps Organizations.
5. Select your country/region from the dropdown list.
6. Click on Continue.
7. Select Create new organization > Continue > Continue.

8. Set the following values to create a project:

    Project name: project1

    Visibility: Private

9. Click + Create project.

2. Create a New Azure Repo

1. In the left-hand navigation menu, click on Repos.

Note: *If you see a message that the repository was not found, then select Switch to the default project1 repository.*

2. Locate the Initialize master branch with a README or gitignore section and make the following selections:

    Add a README: Make sure this box is checked

    Add a .gitignore: Select VisualStudio

3. Click Initialize.

3. Clone the Repo to a new Linux VM

1. In the upper right-hand corner, click the User settings icon. Then select Personal access tokens.
2. Click on + New Token and set the following values:

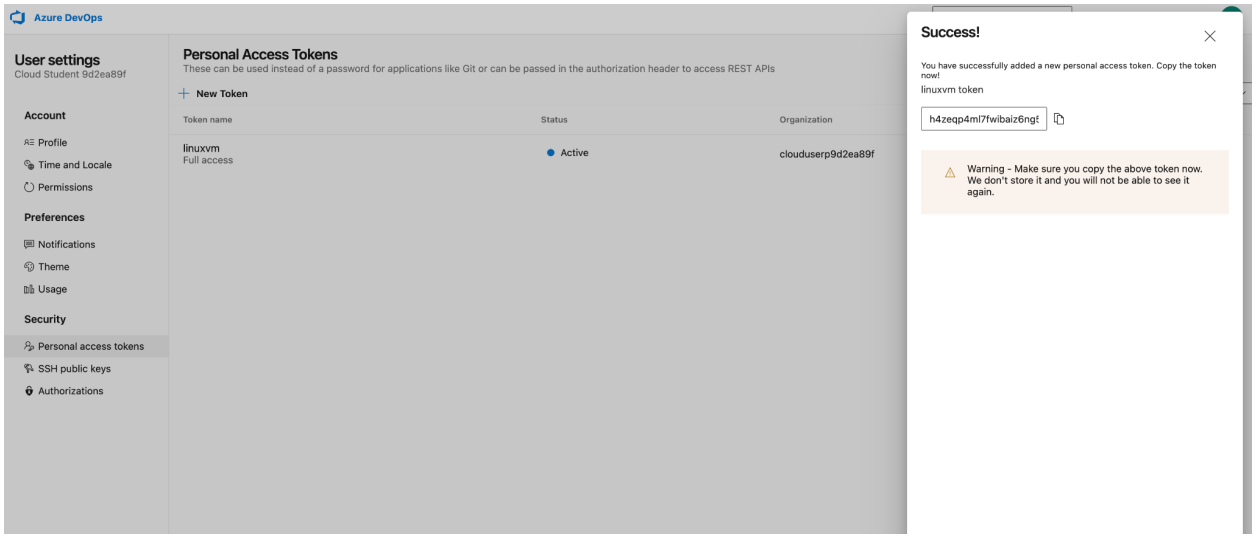
    Name: linxuvm

    Expiration (UTC): 90 days

    Scopes: Custom defined

    Code: Full, Status

3. Click on Create.



4. Copy the linuxvm token, and save it in a text file.
5. Click on Close.
6. Click on Azure DevOps in the upper left corner, then select your project.
7. In the left-hand navigation menu, click on Repos.
8. Click on Clone and copy the URL
9. Create a new Ubuntu VM, ssh into it and install git using the package manager.
10. In the Linux VM, paste in the clone URL:

    git clone <CLONE_URL>

11. Paste in the personal access token as the password.
12. List the contents of the directory:

    ls
    Change into project1:
    cd project1/
    List the contents:
    ls
    Show the hidden files:
    ls -al
    Edit the README file:
    vi README.md
    - Make a small change to the file.

- Press **Esc**, then type **:wq** to save and quit.

13. Show the status:

    git status

14. Add the change to staging:

    git add README.md

15. Commit the change:

    git commit -m "changed README"

16. Push the change:

    git push

17. Paste in the personal access token as the password.

18. Back in the Azure DevOps project, select README.md to view the change.