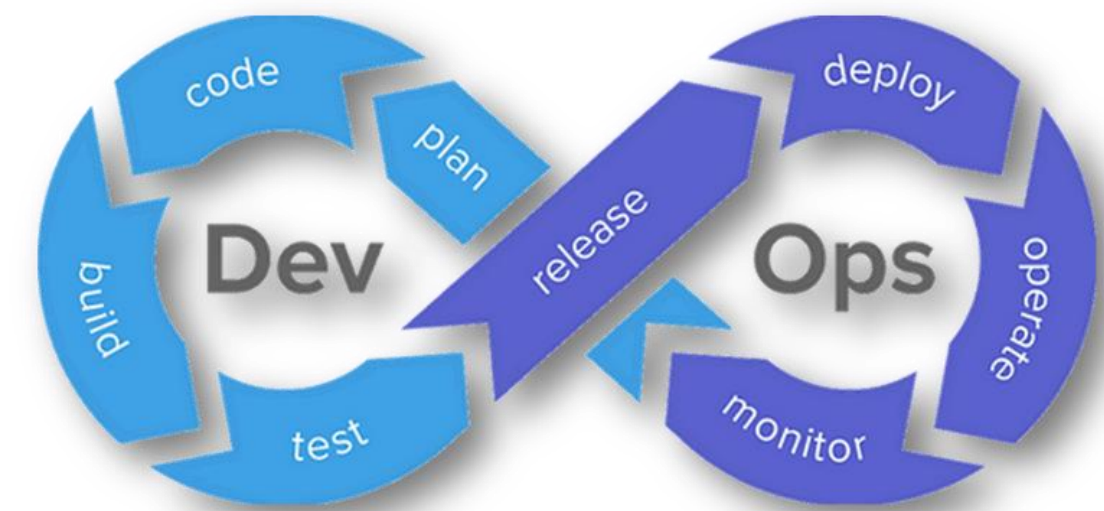


# DevOps 24 hours Day6



# Azure DevOps

ThinknyxTechnologies

# Azure DevOps

Azure DevOps is a set of tools by Microsoft that helps teams plan, build, test, and deploy software — all in one place.

It as a complete platform for managing your software development lifecycle from writing code to delivering it to users.

Here's how it helps step-by-step:

1. Plan – Track tasks, bugs, and features using Azure Boards.
- 2.Code – Store and manage your code using Azure Repos (like GitHub).
- 3.Build – Automate builds and tests with Azure Pipelines (CI/CD).
- 4.Packages – Manage dependencies with Azure Artifacts (package feeds).
- 5.Deploy – Release apps to servers or cloud services using Release Pipelines.

In short: Azure DevOps helps developers and DevOps teams collaborate efficiently and deliver software faster and more reliably.

# Azure DevOps Organization

- Acts as the central container for managing all your DevOps work
- Creating an organization is compulsory before you can use the service
- Azure DevOps automatically creates a “default” organization using your username or email prefix when you first log in

## ➤ Features

- **Organization is the Entry Point**

Everything in DevOps (projects, repos, pipelines, boards) lives inside an organization  
Without an organization, there's no workspace to host your projects

- **Access Control**

Users and permissions are managed at the organization level

- **URL & Identity**

The organization name forms your unique DevOps URL: <https://dev.azure.com/{organization-name}/>

All projects and resources will be under this URL


Organization name must be globally unique

# Azure DevOps Organization

- Login to: <https://dev.azure.com/>
- Observe a default organization is created from the username
- We can create a project directly from here
- Alternatively, we can create a new organization as well
- Go to “Organization Settings” to
  - Change the name of the organization
  - Delete the organization



# Azure DevOps Organization

 Azure DevOps


thinknyx-user@mayerrameshgmail.onmicrosoft.com

## Get started with Azure DevOps

Choosing **Continue** means that you agree to our [Terms of Service](#), [Privacy Statement](#), and [Code of Conduct](#).

☒ I would like information, tips, and offers about Azure DevOps and other Microsoft products and services. [Privacy Statement](#).

**Continue**

 Azure DevOps

thinknyx-user@mayerrameshgmail.onmicrosoft.com

## Almost done...

Name your Azure DevOps organization \*

dev.azure.com/ thinknyx-devops

We'll host your projects in


India

Enter the characters you see

New Audio

S4 MW

**Continue**

 Azure DevOps thinknyx-devops / Settings / Overview

### Organization Settings

thinknyx-devops

Search Settings

- General
- Overview
- Projects
- Users
- Billing
- Global notifications
- Usage
- Extensions
- Microsoft Entra
- Security
- Boards
- Pipelines
- Repos
- Artifacts

### Overview

Name

thinknyx-devops

Use the new URL: <https://dev.azure.com/thinknyx-devops/>

Privacy URL

Description

Time zone

UTC

Geography

India

Region

Central India

Save

Changes made will affect all projects and members of the organization

### Organization Usage Limit

Type	Usage
Projects	0/1000
Work Item Tags	0/150000

### Organization owner

Thinknyx User

thinknyx-user@mayerrameshgmail.onmicrosoft.com

Change owner






### Delete organization

This will affect all contents and members of this organization.

Delete

# Azure DevOps Project

- A project organizes all DevOps resources for a specific initiative, application, or team
- Each project contains:

 Azure Boards	 Azure Repos	 Azure Pipelines
Track work using Kanban/Scrum boards	Store and manage source code	Automate builds and deployments
 Azure Test Plans	 Azure Artifacts	
Plan and execute testing	Manage and share packages	


# Azure DevOps Project

## Create a project to get started

Project name <sup>\*</sup>

Description

Visibility



 **Private**  
Only people you give access to will be able to view this. Want to create a public project? [Try GitHub](#)


**Advanced**


Version control <sup>?</sup>


Work item process <sup>?</sup>


[+ Create project](#)


 **demo** 


 Overview


 Summary


 Dashboards


 Wiki

 Boards

 Repos


 Pipelines

 Test Plans

 Artifacts

devops / Settings / Overview

## Overview



Name

☒ Use the new URL: <https://dev.azure.com/thinknyx-devops/>  
[Learn more about URLs](#)

Privacy URL

[Learn more about the Privacy URL](#)

Description


Time zone

Geography

India  
[Learn more about the Geographies](#)

Region


Central India

[Save](#)  Changes made will affect all projects and members of the organization

### Organization Usage Limit

Type	Usage
Projects	<div><div></div></div> 1/1000
Work Item Tags	<div><div></div></div> 0/150000

### Organization owner

 **Thinknyx User**  
thinknyx-user@mayermashgmaillonmicrosoft.com  
[Learn more about the organization owner](#)

[Change owner](#)

### Delete organization

This will affect all contents and members of this organization.  
[Learn more about deleting organizations](#)

[Delete](#)



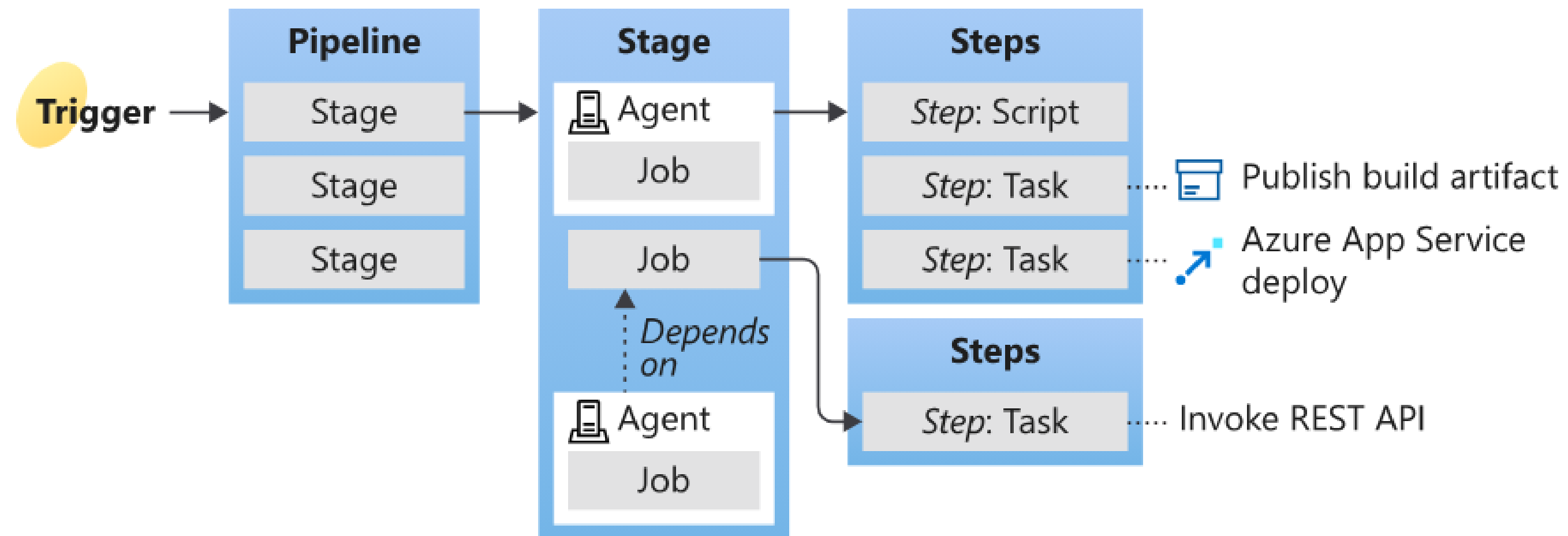
# Repos

1. Create a New Repo --> Give your name and create
2. Click on "Import a repository" --> GitHub URL  
--> [https://github.com/adeepthinarayan/gsk\\_devops\\_training.git](https://github.com/adeepthinarayan/gsk_devops_training.git) and import it
3. Now, this will be your working repository

# Repos

1. Create a New Repo --> Give your name and create
2. Click on "Import a repository" --> GitHub URL  
--> [https://github.com/adeepthinarayan/gsk\\_devops\\_training.git](https://github.com/adeepthinarayan/gsk_devops_training.git) and import it
3. Now, this will be your working repository

# Azure Pipelines



# Build Pipeline

1. Create a New Repo --> Give your name and create
2. Click on "Import a repository" --> GitHub URL  
--> [https://github.com/adeepthinarayan/gsk\\_devops\\_training.git](https://github.com/adeepthinarayan/gsk_devops_training.git) and import it
3. Now, this will be your working repository

# Create an App service

[Home](#) > [App Services](#) >

## Create Web App

Basics Database Deployment Networking Monitor + secure Tags **Review + create**

### Summary



**i** Basic authentication for this app is currently disabled and may impact deployments. [Click to learn more.](#)

### Details

Subscription	0eae3dbd-6a0e-41de-8201-2561208af745
Resource Group	dev
Name	natalia
Secure unique default hostname	Enabled
Publish	Code
Runtime stack	Python 3.13

### App Service Plan

Name	ASP-dev-b0b4
------	--------------

[Create](#) [< Previous](#) [Next >](#) [Download a template for automation](#)

[Home](#) > [Microsoft.Web-WebApp-Portal-7c54cce7-98c5](#) | [Overview](#) > natalia

## natalia | Stack settings

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Microsoft Defender for Cloud
- Events (preview)
- Resource visualizer
- Deployment
  - Deployment slots
  - Deployment Center
- Settings
  - Environment variables
  - Configuration (preview)**
  - Authentication
  - Identity

General settings **Stack settings** Path mappings Error pages

[Refresh](#) [Leave preview](#)

### Stack selection

Stack \*

Version \*

### Startup command

Provide an optional startup command that will be run as part of container startup. [Learn more](#)

[Show example](#)

[Apply](#) [Discard](#)

Add or remove favorites by pressing **Ctrl+Shift+F**