

# Deploying Python (Flask) Web Application to Azure Application Service - Azure DevOps(CI/CD)

## Deployment of RG and Service Application

The screenshot shows the Azure portal interface for a resource group named 'savasrg'. The left sidebar contains a navigation menu with categories like Overview, Settings, Cost Management, and Monitoring. The main content area is divided into 'Essentials' and 'Resources' sections. The 'Essentials' section displays the subscription ID 'ada72de6-8f03-4d1d-84fa-d4a70f7dd617' and the location 'Canada East'. The 'Resources' section shows a table of resources within the group.

Name	Type	Location
ASP-savasrg-99d2	App Service plan	Canada East
savasdevaz	App Service	Canada East

## Visualization of Resources

The screenshot shows the Azure Resource Visualizer for the 'savasrg' resource group. The interface displays a hierarchical view of the resources. The main visual element is a card for the 'ASP-savasrg-a86e' App Service plan, which includes a cloud icon and the text 'ASP-savasrg-a86e App Service plan'.

Details of Resources

Microsoft Azure

Search resources, services, and docs (G+I)

Home > Resource groups > savasrg >

savasdevaz

App Service

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Microsoft Defender for Cloud

Events (preview)

Deployment

Quickstart

Deployment slots

Deployment Center

Settings

Configuration

Authentication

Application Insights

Identity

Backups

Custom domains

Custom domains (classic)

Certificates

TLS/SSL settings (classic)

Networking

Scale up (App Service plan)

Scale out (App Service plan)

Webjobs

Browser

Stop

Swap

Restart

Delete

Refresh

Download publish profile

Reset publish profile

Share to mobile

Send us your feedback

Essentials

Resource group (move) : savasrg

Status : Running

Location (move) : Canada East

Subscription (move) : Azure subscription 1

Subscription ID : ada72de6-8f03-4d1d-84fa-d4a70f7dd617

Tags (edit) : [Click here to add tags](#)

URL : <https://sasdevaz.azurewebsites.net>

App Service Plan : ASP-savasrg-99d2 (B1: 1)

Operating System : Linux

Health Check : Not Configured

Properties

Monitoring

Logs

Capabilities

Notifications

Recommendations

Web app

Name : savasdevaz

Publishing model : Code

Runtime Stack : Python - 3.9

Deployment Center

Deployment logs : [View logs](#)

Last deployment : No deployments found

Deployment provider : VSTS

Networking

Virtual IP address : 40.69.106.98

Outbound IP addresses : 52.229.96.167,40.69.122.143,40.69.12... [Show More](#)

Additional Outbound IP addresses : 52.229.96.167,40.69.122.143,40.69.12... [Show More](#)

Application Insights

Name : Not supported. [Learn more](#)

Hosting

Plan Type : App Service plan

Name : ASP-savasrg-99d2

Operating System : Linux

Instance Count : 1

SKU and size : Basic (B1) [Scale up](#)

JSON View

Projects in Azure DevOps

Azure DevOps

Search

5 savastuylu05

New organization

savastuylu05

Projects

My work items

My pull requests

Filter projects

5 55sav

A azdevtrerraspac

A Azure-DevOpsav

New project

Project 55sav

Azure DevOps

savastuylu05 / 55sav / Overview / Summary

Search

ST

55sav

Overview

Summary

Dashboards

Wiki

Boards

Repos

Pipelines

Test Plans

Artifacts

55sav

Private


Invite

About this project

Help others to get on board!

Describe your project and make it easier for other people to understand it.

+ Add Project Description



Project stats

Period: Last 7 days

Pipelines

100%

Builds succeeded

100%

Deployments succeeded

Members

1

ST

Pipeline

Azure DevOps

savastuylu05 / 55sav / Pipelines

Search

ST

55sav

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Releases

Library

Task groups

Deployment groups

Test Plans

Artifacts

Pipelines

New pipeline


Recent

All

Runs

Filter pipelines

Recently run pipelines

Pipeline	Last run
<div>✓ Savastyl.Azure-DevOps-with-Python</div>	<div>#20230128.3 • Welcome to AWS.)</div> <div>Individual CI for  master</div> <div>58m ago</div> <div>2m 14s</div>

# Commits in Pipeline

Azure DevOps

55sav

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Releases

Library

Task groups

Deployment groups

Test Plans

Artifacts

← Savastyl.Azure-DevOps-with-Python

EditRun pipeline

RunsBranchesAnalytics

Description	Stages	
<div>#20230128.3 • Welcome to AWS:)</div> <div>Individual CI for master bf5a6aaa</div>	<div>✓-✓</div>	<div>58m ago</div> <div>2m 14s</div>
<div>#20230128.2 • 2nd commit</div> <div>Individual CI for master 57ed876e</div>	<div>✓-✓</div>	<div>1h ago</div> <div>2m 14s</div>
<div>#20230128.1 • Set up CI with Azure Pipelines</div> <div>Individual CI for master d952850e</div>	<div>✓-✓</div>	<div>1h ago</div> <div>4m 12s</div>

# Commit

Azure DevOps

savastuylu05 / 55sav / Pipelines / Savastyl.Azure-DevOps-with-... / 20230128.3

55sav

Overview

Boards

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Pipelines

Pipelines

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Artifacts

#20230128.3 • Welcome to AWS:)

Savastyl.Azure-DevOps-with-Python

Run new

This run is being retained as one of 3 recent runs by pipeline.

View retention leases

SummaryReleasesEnvironmentsAssociated pipelines

Triggered by Savastyl

Repository and version

Savastyl/Azure-DevOps-with-Python

master bf5a6aaa

Time started and elapsed

Today at 9:29 PM

2m 14s

Related

0 work items

1 published

Tests and coverage

Get started

StagesJobs

Build stage

1 job completed37s

1 artifact

Deploy Web App

1 job completed1m 19s

Jobs in Pipeline

55sav

Overview

Boards

Repos

Pipelines

Pipelines

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Library

Task groups

Deployment groups

Test Plans

Artifacts

Jobs in run #20230128.3

Savastyl.Azure-DevOps-with-Python

Build stage

BuildJob33s

Initialize job2s

Checkout Savastyl/Azur...2s

Use Python 3.7<1s

Install requirements12s

Archive files2s

Upload package9s

Post-job: Checkout Sa...<1s

Finalize Job<1s

Deploy Web App

DeploymentJob1m 17s

BuildJob

1Pool: Azure Pipelines

2Image: ubuntu-latest

3Agent: Hosted Agent

4Started: Today at 9:29 PM

5Duration: 33s

6

7Job preparation parameters

81 artifact produced

55sav

Overview

Boards

Repos

Pipelines

Pipelines

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Task groups

Deployment groups

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Artifacts

Jobs in run #20230128.3

Savastyl.Azure-DevOps-with-Python

Build stage

BuildJob33s

Deploy Web App

DeploymentJob1m 17s

Initialize job2s

Download Artifact5s

Use Python version<1s

Deploy Azure Web ...1m 6s

Finalize Job<1s

DeploymentJob

1Pool: Azure Pipelines


2Image: ubuntu-latest

3Agent: Hosted Agent

4Started: Today at 9:30 PM

5Duration: 1m 17s

## Releases

 Azure DevOps

savastuytu05 / 55sav / Pipelines / Releases

55sav

+

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Releases

Library

Task groups

Deployment groups

Test Plans

Artifacts

Search all pipelines

+ New

▼

New release pipeline

Stage 2

New release pipeline

Releases Deployments Analytics

Releases	Created	Stages
<div><div>M</div><div>Release-3</div><div>20230128... master</div></div>	1/27/2023, 9:31:47 PM	<div>Stage 2</div>
<div><div>M</div><div>Release-2</div><div>20230128... master</div></div>	1/27/2023, 9:21:26 PM	<div>Stage 2</div>
<div><div>ST</div><div>Release-1</div><div>20230128... master</div></div>	1/27/2023, 9:14:45 PM	<div>Stage 2</div>

Edit

Create release

All releases

▼

🔍

⋮

The screenshot shows the Azure DevOps web interface. The top navigation bar includes the Azure DevOps logo, the user's name 'savastuylo05', and a breadcrumb trail: '55sav' / 'Pipelines' / 'Releases' / 'New release pipeline' / 'Release-3'. A search bar is on the right. The left sidebar contains a list of navigation items: Overview, Boards, Repos, Pipelines (selected), Environments, Releases, Library, Task groups, Deployment groups, Test Plans, and Artifacts. The main content area is titled 'New release pipeline > Release-3'. Below the title are tabs for 'Pipeline', 'Variables', and 'History'. The 'Pipeline' tab is active, showing a 'Release' pipeline. The pipeline is in a 'Continuous deployment' state, with a green checkmark and the text 'Succeeded' and 'on 1/27/2023, 9:32 PM'. Below this, there is an 'Artifacts' section showing a build artifact named '\_Savastyl Azure-D...' with a version of '20230128.3' and a 'master' branch. The right sidebar is empty.

Azure DevOps

savastuylu05 / 55sav / Pipelines / Releases / New release pipeline / Release-3

Search

ST

55sav

OverviewBoardsReposPipelinesEnvironmentsReleasesLibraryTask groupsDeployment groupsTest PlansArtifacts

New release pipeline > Release-3

PipelineVariablesHistoryDeployCancelRefreshEdit

Release

Continuous deployment  
for Microsoft.VisualStudio.Services.TFS  
1/27/2023, 9:31 PM  
Artifacts  
\_Savastyl.Azure-D...  
20230128.3  
master

Stages

Stage 2  
Succeeded  
on 1/27/2023, 9:32 PM

Release-3

SummaryOptions

Trigger  
Triggered by \_Savastyl.Azure-DevOps-with-Python / 20230128.3 for Microsoft.VisualStudio.Services.TFS  
1/27/2023, 9:31 PM

Release description  
Triggered by Savastyl.Azure-DevOps-with-Python 20230128.3

Tags

Artifacts  
\_Savastyl.Azure-DevOps-with-Python / 20230128.3  
master

Azure DevOps

savastuylu05 / 55sav / Pipelines / Releases / New release pipeline / Release-3

Search

ST

55sav

OverviewBoardsReposPipelinesEnvironmentsReleasesLibraryTask groupsDeployment groupsTest PlansArtifacts

New release pipeline > Release-3 > Stage 2

PipelineTasksVariablesLogsTestsDeployCancelRefreshDownload all logsEdit

Deployment process  
Succeeded

Run on agent  
Succeeded

Run on agent

Pool: Hosted Windows 2019 with ... · Agent: Hosted Agent

Started: 1/27/2023, 9:32:02 PM  
... 51s

Initialize job · succeeded	4s
Download artifact - _Savastyl.Azure-DevOps-with-Python - drop · succeeded	7s
Deploy Azure App Service · succeeded	39s
Finalize Job · succeeded	<1s

## Application

