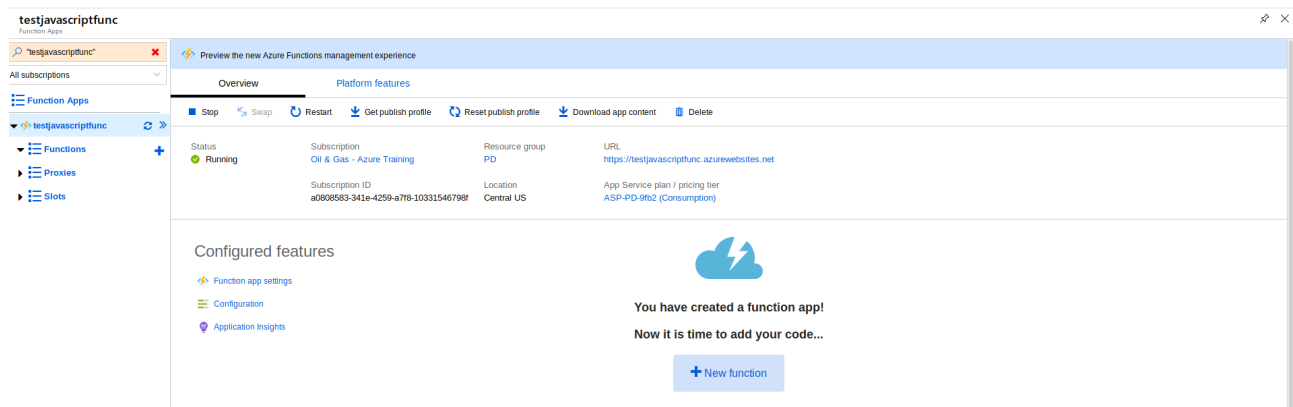


## Function app deployment

### Requirements:

1. Function app service
2. DevOps project
3. service principle
3. pipelines or release pipelines

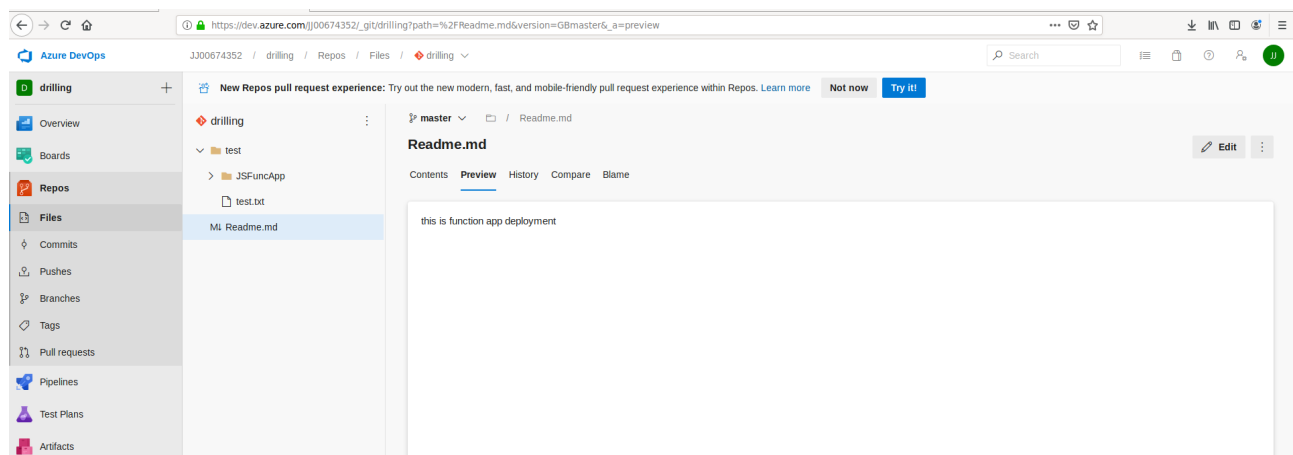
### Function app service



### Deployment from Azure DevOps

code commit to repository

### Scenario - 1



drilling

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Releases

Library

Task groups

Deployment groups

Test Plans

Artifacts

3300074352 / drilling / Pipelines

Search

ConnectSelectConfigureReview

New pipeline

Where is your code?

Azure Repos Git

Free private Git repositories, pull requests, and code search

Bitbucket Cloud

Hosted by Atlassian

GitHub

Home to the world's largest community of developers

GitHub Enterprise Server

The self-hosted version of GitHub Enterprise

Other Git

Any generic Git repository

Subversion

Centralized version control by Apache

Use the classic editor to create a pipeline without YAML.

The screenshot shows the 'Select a source' dialog in Azure DevOps. On the left, a sidebar lists navigation options: Overview, Boards, Repos, Pipelines (selected), Environments, Releases, Library, Task groups, Deployment groups, Test Plans, and Artifacts. The main area has a large arrow icon and the text 'Select your repository. Tell us where your sources are. You can customize how to get these sources from the repository later.' On the right, there are several repository provider icons: Azure Repos Git (selected and highlighted with a red box), GitHub, GitHub Enterprise Server, Subversion, Bitbucket Cloud, and Other Git. Below these are three dropdown menus: 'Team project' with 'drilling' selected, 'Repository' with 'drilling' selected, and 'Default branch for manual and scheduled builds' with 'master' selected. At the bottom right, a 'Continue' button is highlighted with a red box.

Azure DevOps

3300674352 / drilling / Pipelines

drilling +

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Releases

Library

Task groups

Deployment groups

Test Plans

Artifacts

Choose a template

Choose a template that builds your kind of app. Don't worry if it's not an exact match; you can add and customize the tasks later.

Select a template

Or start with an **Empty job**

Configuration as code

YAML

Looking for a better experience to configure your pipelines using YAML files? Try the new YAML pipeline creation experience. [Learn more](#)

Featured

.NET Desktop

Build and test a .NET or Windows classic desktop solution.

Android

Build, test, sign, and align an Android APK.

ASP.NET

Build and test an ASP.NET web application.

Azure Web App for ASP.NET

Build, package, test, and deploy an ASP.NET Azure Web App.

Docker container

Build a Docker image and push it to a container registry.

Azure DevOps

3300674352 / drilling / Pipelines

drilling +

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Releases

Library

Task groups

Deployment groups

Test Plans

Artifacts

PD-Function App Deployment

Tasks Variables Triggers Options Retention History

Save & queue Discard Summary Queue

Pipeline

Build pipeline

Get sources

drilling master

Agent

Run on agent

Agent job

View YAML Remove

Display name \*

Agent

Agent selection

Agent pool | Manage

<inherit from pipeline>

Demands

Name Condition Value

+ Add

Execution plan

Parallelism

None Multi-configuration Multi-agent

Timeout \*

Azure DevOps

3300674352 / drilling / Pipelines

drilling +

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Releases

Library

Task groups

Deployment groups

Test Plans

Artifacts

PD-Function App Deployment

Tasks Variables Triggers Options Retention History

Save & queue Discard Summary Queue

Pipeline

Build pipeline

Get sources

drilling master

Agent

Run on agent

Add tasks Refresh

Search functi

Azure Function on Kubernetes

Deploy Azure function to Kubernetes cluster.

Azure Functions

Update a function app with .NET, Python, JavaScript, PowerShell, Java based web applications

by Microsoft Corporation

Add

Learn more

Azure Functions for container

Update a function app with a Docker container

Visual Studio Test

Run unit and functional tests (Selenium, Appium, Coded UI test, etc.) using the Visual Studio Test (VsTest) runner. Test frameworks that have a Visual Studio test adapter such as NUnit, xUnit, NUnit, Chutzpah (for JavaScript tests using QUnit, Mocha and Jasmine), etc. can be run. Tests can be distributed on multiple agents using this task (version 2).

Marketplace

Azure DevOps interface showing the configuration of a pipeline task named "Azure Function App Deploy". The task is highlighted with a red box. The configuration panel on the right shows the following settings:

- Task version: 1.\*
- Display name: Azure Function App Deploy.
- Azure subscription: Oil & Gas - Azure Training (a0808583-341e-4259-a7f8-10331546798f) [Authorize]
- App type: Function App on Windows
- App name: [Empty field]
- Package or folder: \$(System.DefaultWorkingDirectory)/\*.zip
- Additional Deployment Options: [Empty]
- Application and Configuration Settings: [Empty]
- Control Options: [Empty]
- Output Variables: [Empty]

Azure DevOps interface showing the configuration of a pipeline task named "Azure Function App Deploy: testjavascriptfunc". The task is highlighted with a red box. The configuration panel on the right shows the following settings:

- Task version: 1.\*
- Display name: Azure Function App Deploy: testjavascriptfunc
- Azure subscription: Oil & Gas - Azure Training (a0808583-341e-4259-a7f8-10331546798f)
- App type: Function App on Windows
- App name: testjavascriptfunc
- Package or folder: test/JSFuncApp
- Additional Deployment Options: [Empty]
- Application and Configuration Settings: [Empty]
- Control Options: [Empty]
- Output Variables: [Empty]

save

Azure DevOps interface showing the "Pipelines" section. The "Pipelines" tab is selected, and the "Recently run pipelines" table is displayed. The table shows one pipeline named "PD-Function App Deployment" with the status "No runs yet".

Pipeline	Last run
PD-Function App Deployment	No runs yet

**Run pipeline**  
Select parameters below and manually run the pipeline

Agent pool  
Azure Pipelines

Agent Specification  
vs2017-win2016

Branch/tag  
master

Select the branch, commit, or tag

**Advanced options**

Variables  
1 variable defined

Demands  
This pipeline has no defined demands

☒ Enable system diagnostics Cancel Run

**Jobs in run #1**  
PD-Function App Deployment

**Jobs**

- Agent 47s
- Initialize job 3s
- Checkout drilling@master to s 4s
- Azure Function App Deploy: te... 38s
- Post-job: Checkout drilling@m... <1s
- Finalize Job <1s
- Report build status <1s

**Agent**

```
1 Pool: Azure Pipelines
2 Image: vs2017-win2016
3 Agent: Hosted Agent
4 Started: Just now
5 Duration: 47s
6
7 Job preparation parameters
8 JS 2 queue time variables used
9 Job live console data:
10 ##[debug]Starting diagnostic file upload.
11 ##[debug]Setting up diagnostic log folders.
12 ##[debug]Creating diagnostic log files folder.
13 ##[debug]Creating diagnostic log environment file.
14 ##[debug]Creating capabilities file.
15 ##[debug]Copying 1 worker diag logs.
16 ##[debug]Copying 1 agent diag logs.
17 ##[debug]Zipping diagnostic files.
18 ##[debug]Uploading diagnostic metadata file.
19 ##[debug]Diagnostic file upload complete.
20 Finishing: Agent
```

**#1 Merge branch 'master' of https://dev.azure.com/JJ00674352/drilling/\_git/drilling**  
on PD-Function App Deployment Retained

**Summary** Code Coverage

Manually run by Jino Joseph View 6 changes

Repository and version  
drilling 64ce9a8

Time started and elapsed  
Just now 51s

Related  
0 work items 0 artifacts

Tests and coverage  
[Get started](#)

**Jobs**

Name	Status	Duration
Agent	Success	47s

Home > Microsoft.Web-FunctionApp-Portal-967caaf-be85 | Overview > testjavascriptfunc

### testjavascriptfunc

Function Apps

testjavascriptfunc

All subscriptions

Function Apps

testjavascriptfunc

Functions (Read Only)

HttpTriggerJS1

Integrate

Manage

Monitor

Proxies (Read Only)

Slots

Overview

Platform features

Stop Swap Restart Get publish profile Reset publish profile Download app content Delete

Status Running

Subscription Oil & Gas - Azure Training

Resource group PD

URL https://testjavascriptfunc.azurewebsites.net

Subscription ID a0808583-341e-4259-a768-10331546798f

Location Central US

App Service plan / pricing tier ASP-PD-9fb2 (Consumption)

Configured features

- Function app settings
- Configuration
- Deployment options configured with VSTS/ARM
- Application Insights

Microsoft Azure

Search resources, services, and docs (Ctrl+K)

Home > Microsoft.Web-FunctionApp-Portal-967caaf-be85 | Overview > testjavascriptfunc - HttpTriggerJS1

### testjavascriptfunc - HttpTriggerJS1

Function Apps

testjavascriptfunc

All subscriptions

Function Apps

testjavascriptfunc

Functions (Read Only)

HttpTriggerJS1

Integrate

Manage

Monitor

Proxies

Slots

Your app is currently in read only mode because you are running from a package file. To make any changes update the content in your zip file and WEBSITE\_RUN\_FROM\_PACKAGE app setting.

index.js

Run Get function URL

```
1 module.exports = async function (context, req) {
2   context.log('JavaScript HTTP trigger function processed a request.');
```

```
3
4   if (req.query.name || (req.body && req.body.name)) {
5     context.res = {
6       // status: 200, /* Defaults to 200 */
7       body: "Hello " + (req.query.name || req.body.name)
8     };
9   }
10  else {
11    context.res = {
12      status: 400,
13      body: "Please pass a name on the query string or in the request body"
14    };
15  }
16  ;}
```

View files Test

HTTP method POST

Query There are no query parameters

Add parameter

Headers There are no headers

Add header

Request body

1

testjavascriptfunc - HttpTriggerJS1 Pipelines - Run 1 testjavascriptfunc.azurewebsites.net

https://testjavascriptfunc.azurewebsites.net/api/HttpTriggerJS1?name=test

Hello test

## Scenario - 2

### Release Pipelines

Azure DevOps

3J00674352 / drilling / Pipelines / Releases

All pipelines > Function app deploy

Pipeline Tasks Variables Retention Options History

You cannot save a release pipeline that contains zero stages.

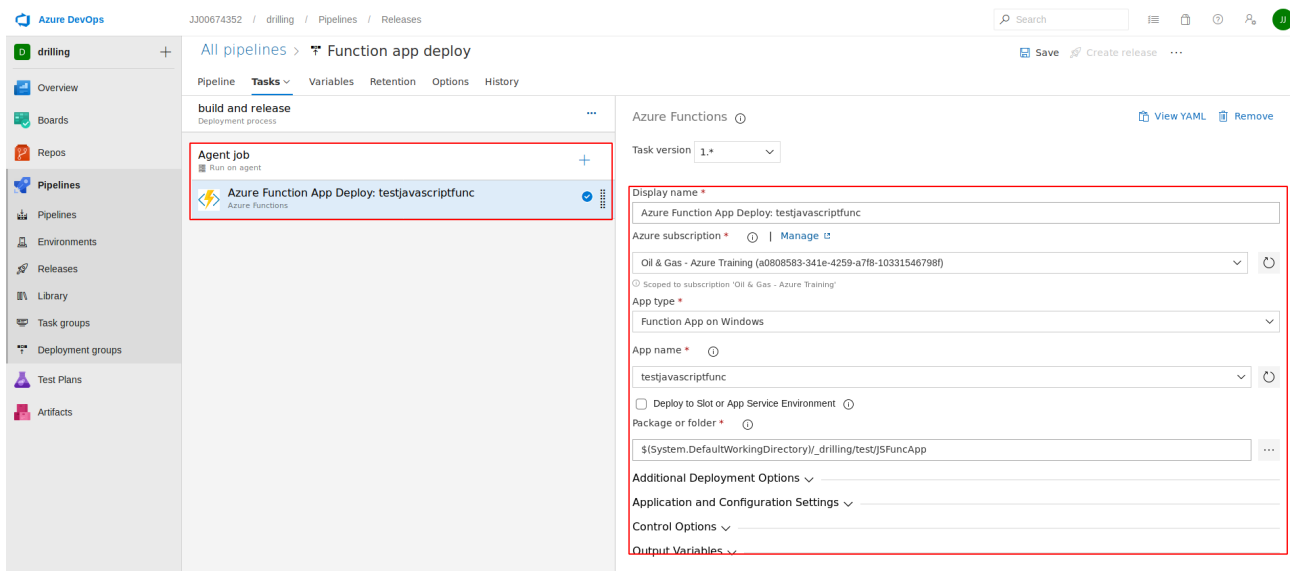
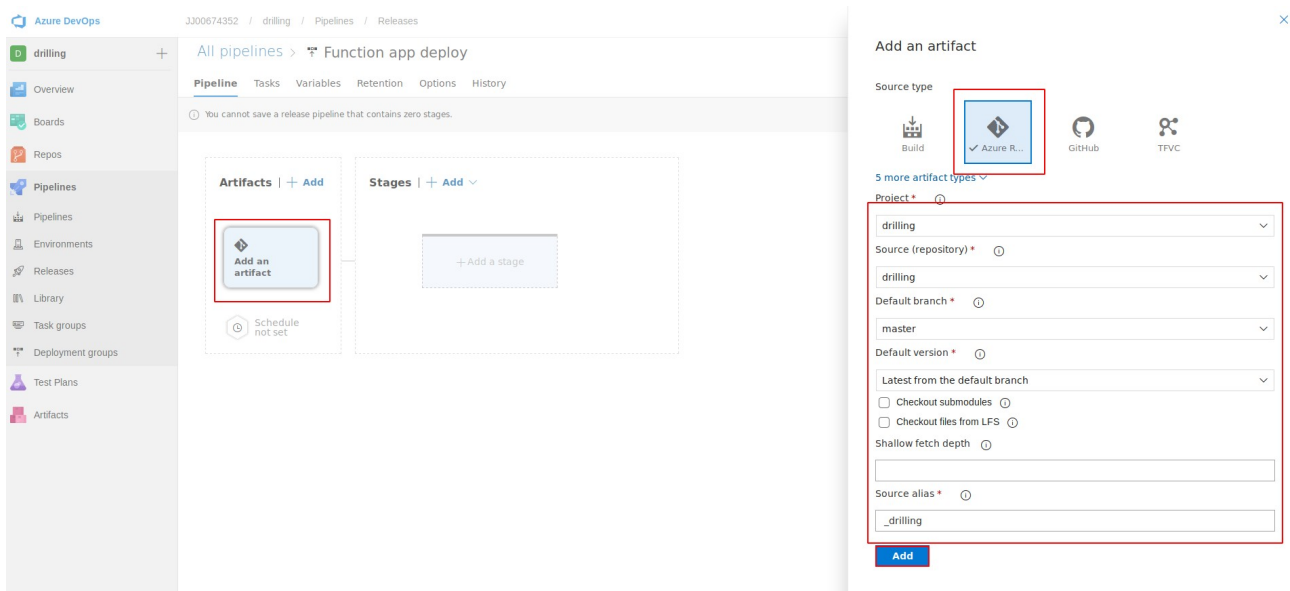
Artifacts | + Add

Stages | + Add

+ Add an artifact

+ Add a stage

Schedule not set



save

## release pipeline file yml format

steps:

```
- task: AzureFunctionApp@1
  displayName: 'Azure Function App Deploy: testjavascriptfunc'
  inputs:
    azureSubscription: 'Oil & Gas - Azure Training (a0808583-341e-4259-a7f8-10331546798f)'
    appType: functionApp
    appName: testjavascriptfunc
    package: '$(System.DefaultWorkingDirectory)/_drilling/test/JSFuncApp'
```

Approve process:

Azure DevOps interface showing the 'Function app deploy' pipeline. The pipeline is configured with one stage named 'build and rele...' containing one task. The 'Pre-deployment conditions' panel is open, showing the 'Pre-deployment approvals' section. The 'Enabled' toggle is checked. The 'Approvers' list includes 'Jino Joseph'. The 'Timeout' is set to 30 days. The 'Approval policies' section is expanded, showing three options: 'The user requesting a release or deployment should not approve it', 'Revalidate identity of approver before completing the approval', and 'Skip approval if the same approver approved the previous stage'. The 'Gates' section is disabled. The 'Deployment queue settings' section is also visible.

Azure DevOps interface showing the 'Function app deploy' pipeline. The pipeline is configured with one stage named 'build and release' containing one task. The 'Pre-deployment conditions' panel is open, showing the 'Pre-deployment approvals' section. The 'Enabled' toggle is checked. The 'Approvers' list includes 'Jino Joseph'. The 'Timeout' is set to 30 days. The 'Approval policies' section is expanded, showing three options: 'The user requesting a release or deployment should not approve it', 'Revalidate identity of approver before completing the approval', and 'Skip approval if the same approver approved the previous stage'. The 'Gates' section is disabled. The 'Deployment queue settings' section is also visible.

save

Azure DevOps interface showing the 'Function app deploy' pipeline. The pipeline is configured with one stage named 'build and release' containing one task. The 'Pre-deployment conditions' panel is open, showing the 'Pre-deployment approvals' section. The 'Enabled' toggle is checked. The 'Approvers' list includes 'Jino Joseph'. The 'Timeout' is set to 30 days. The 'Approval policies' section is expanded, showing three options: 'The user requesting a release or deployment should not approve it', 'Revalidate identity of approver before completing the approval', and 'Skip approval if the same approver approved the previous stage'. The 'Gates' section is disabled. The 'Deployment queue settings' section is also visible.

create



drilling +

Release Release-1 has been queued

Search all pipelines

Function app deploy

No deployments found

Function app deploy

Releases Deployments Analytics

Releases Created Stages

Release-1

64ce9... master

5/3/2020, 7:02:31 PM

build and...

Azure DevOps

3300674352 / drilling / Pipelines / Releases / Function app deploy / Release-1

Search

drilling +

Function app deploy > Release-1

Pipeline Variables History + Deploy Cancel Approve multiple Refresh Edit

Release

Manually triggered

by Jino Joseph

5/3/2020, 7:02 PM

Artifacts

drilling

64ce9a84

master

Stages

build and release

Pending approval

Jino Joseph

Approve

build and release

Pre-deployment conditions Pending approval

Approval pending

Waiting for all approvers to approve in sequence

Timeout in 30d

Jino Joseph

Pending

Comment

test process

Defer deployment for later

Approve Reject

Azure DevOps

3300674352 / drilling / Pipelines / Releases / Function app deploy / Release-1

Search

drilling +

Function app deploy > Release-1

Pipeline Variables History + Deploy Cancel Refresh Edit

Release

Manually triggered

by Jino Joseph

5/3/2020, 7:02 PM

Artifacts

drilling

64ce9a84

master

Stages

build and release

In progress

Initialize job

1 task

00:02

Azure DevOps

3300674352 / drilling / Pipelines / Releases / Function app deploy / Release-1

Search

drilling +

Function app deploy > Release-1

Pipeline Variables History + Deploy Cancel Refresh Edit

Release

Manually triggered

by Jino Joseph

5/3/2020, 7:02 PM

Artifacts

drilling

64ce9a84

master

Stages

build and release

Succeeded

on 5/3/2020, 7:05 PM

testjavascriptfunc

Function Apps

testjavascriptfunc

Oil & Gas - Azure Training

Function Apps

testjavascriptfunc

Functions (Read Only)

HttpTriggerJS1

Integrate

Manage

Monitor

Proxies (Read Only)

Slots

Preview the new Azure Functions management experience

Overview

Platform features

Stop

Swap

Restart

Get publish profile

Reset publish profile

Download app content

Delete

Status

Running

Subscription

Oil & Gas - Azure Training

Resource group

PD

URL

https://testjavascriptfunc.azurewebsites.net

Availability

Loading ...

Subscription ID

a0808583-341e-4259-a7f8-10331546798f

Location

Central US

App Service plan / pricing tier

ASP-PD-9fb2 (Consumption)

Configured features

Function app settings

Configuration

Deployment options configured with VSTS/RM

Application Insights