





Deploy dockerise node.js application on azure container instance through azure devops pipeline using arm template



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 **gajendragangwar123** Update ContainerInstance.azure.json ✓ 618173a yesterday [3 commits](#)

ARMTemplates	Update ContainerInstance.azure.json	5 minutes ago
SourceCode	Created	3 years ago

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Azure DevOps

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Search

GP

Gajendra Devops Project

+

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Releases

Library

Task groups

Deployment groups

Test Plans

Artifacts

Project settings

Select your repository

Tell us where your sources are.
You can customize how to get these sources from the repository later.

Select a source

Azure Repos Git

GitHub

GitHub Enterprise Server

Subversion

Bitbucket Cloud

Other Git

1

 Authorized using connection: GitHub connection 1

Change

Repository * | [Manage on GitHub](#)
gajendragangwar123/aciWithARM

...

Default branch for manual and scheduled builds *
master

...

Continue

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Search

GP

Gajendra Devops Project

+

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Releases

Library

Task groups

Deployment groups

Test Plans

Artifacts

Project settings

...

>

Arm deploy

Tasks

Variables

Triggers

Options

History

Save & queue

Discard

Summary

Queue

...

Pipeline

Build pipeline

...

Get sources

gajendragangwar123/aciWithARM

master

Agent job 1

Run on agent

+

Arm template

Copy files

✓

sourcecode

Copy files

Publish Artifact: drop

Publish build artifacts

Copy files

Link settings

View YAML

Remove

Task version

2.*

Display name *

Arm template

Source Folder

ARMTemplates

Contents *

**

Target Folder *

\$(build.artifactstagingdirectory)/ARMTemplates

Advanced

Control Options

Output Variables

- Gajendra Devops Project +
- Overview
- Boards
- Repos
- Pipelines
 - Pipelines
 - Environments
 - Releases
 - Library
 - Task groups
 - Deployment groups
- Test Plans
- Artifacts
- Project settings <<

Arm deploy

Tasks Variables Triggers Options History Save & queue Discard Summary Queue ...

Pipeline

Build pipeline

Get sources

gajendragangwar123/ac/WithARM master

Agent job 1

Run on agent

Arm template

Copy files

sourcecode

Copy files

Publish Artifact: drop

Publish build artifacts

Copy files

Link settings View YAML Remove

Task version

2.*

Display name *

sourcecode

Source Folder

SourceCode

Contents *

**

Target Folder *

\$(build.artifactstagingdirectory)/SourceCode

Advanced

Control Options

- Gajendra Devops Project +
- Overview
- Boards
- Repos
- Pipelines
 - Pipelines
 - Environments
 - Releases
 - Library
 - Task groups
 - Deployment groups
- Test Plans
- Artifacts
- Project settings <<

Arm deploy

Tasks Variables Triggers Options History Save & queue Discard Summary Queue ...

Pipeline
Build pipeline

Get sources
gajendragangwar123/acWithARM master

Agent job 1
Run on agent

- Arm template
Copy files
- sourcecode
Copy files
- Publish Artifact: drop**
Publish build artifacts

Publish build artifacts Link settings View YAML Remove

Task version 1.*

Display name *
Publish Artifact: drop

Path to publish *
\$(Build.ArtifactStagingDirectory)

Artifact name *
drop

Artifact publish location *
Azure Pipelines

Advanced Control Options Output Variables

- Gajendra Devops Project +
- Overview
- Boards
- Repos
- Pipelines
 - Pipelines
 - Environments
 - Releases
 - Library
 - Task groups
 - Deployment groups
- Test Plans
- Artifacts
- Project settings <<

All pipelines > New release pipeline (8)

Save Create release ...

ARM
Deployment process

Agent job
Run on agent

- build
Docker
- push
Docker
- ARM Template instance
ARM template deployment

Azure subscription | Manage

ARM connection
Scoped to subscription 'Free Trial'

Azure Container Registry
gajendragangwar1

Action *
Build an image

Docker File *
\$(System.DefaultWorkingDirectory)/_Arm deploy/drop/SourceCode/Dockerfile

Build Arguments

☒ Use Default Build Context

Image Name *
\$(Build.Repository.Name):\$(Build.BuildId)

Gajendra Devops Project

- Overview
- Boards
- Repos
- Pipelines**
 - Pipelines
 - Environments
 - Releases
 - Library
 - Task groups
 - Deployment groups
- Test Plans
- Artifacts
- Project settings

All pipelines > New release pipeline (8)

Pipeline Tasks Variables Retention Options History

ARM
Deployment process

Agent job
Run on agent

- build
Docker
- push
Docker
- ARM Template instance**
ARM template deployment

Display name *

push

Container Registry Type *

Azure Container Registry

Azure subscription | Manage

ARm connection

Scoped to subscription 'Free Trial'

Azure Container Registry

gajendraregistry1

Action *

Push an image

Image Name *

\$(Build.Repository.Name):\$(Build.BuildId)

☒ Qualify Image Name

Additional Image Tags

Gajendra Devops Project

- Overview
- Boards
- Repos
- Pipelines**
 - Pipelines
 - Environments
 - Releases
 - Library
 - Task groups
 - Deployment groups
- Test Plans
- Artifacts
- Project settings

All pipelines > New release pipeline (8)

Pipeline Tasks Variables Retention Options History

ARM
Deployment process

Agent job
Run on agent

- build
Docker
- push
Docker
- ARM Template instance**
ARM template deployment

Resource group *

\$(resourceGroupName)

Location *

\$(resourceGroupLocation)

Template

Template location *

Linked artifact

Template *

\$(System.DefaultWorkingDirectory)/_Arm
deploy/drop/ARMTemplates/ContainerInstance.azrm.json

Template parameters

\$(System.DefaultWorkingDirectory)/_Arm
deploy/drop/ARMTemplates/param.ContainerInstance.json

Override template parameters

-noCpu "1" -memoryInGB "4" -registryServerName
gajendraregistry1.azurecr.io -registryUserName gajendraregistry1 -
registryPassword

Microsoft Azure

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

Home > Container instances >

Container instances

Default Directory

+ Create Manage view

Filter for any field...

Name ↑↓

- mycontainerinstance7liiht373xqe
- sakshi-react

Page 1 of 1

mycontainerinstance7liiht373xqe

Container instances

Search

Start Restart Stop Delete Refresh

- Overview
- Activity log
- Access control (IAM)
- Tags

Settings

- Containers
- Identity
- Properties
- Locks

Monitoring

- Metrics
- Alerts

Automation

- Tasks (preview)
- Export template

Essentials

Resource group (move)

ACITest

Status: Running

Location: East US

Subscription (move): Free Trial

Subscription ID: c1c4d54f-e38a-4e04-aa8c-632f480fc169

Tags (edit): Click here to add tags

OS type: Linux

IP address (Public): 4.157.59.151

FQDN: mynodeapp11596.eastus.azurecontainer.io

Container count: 1

CPU

2

1.5

1

MERN Stack Example

ToDo List

Task

Create a Task

Assignee

Assignee

Status:

To Be Done

Submit

Now, we add some extra step in azure release pipeline(azure container creation using arm template)

Microsoft Azure Search resources, services, and docs (G+/)

Home > Subscriptions > Free Trial

Subscriptions

Default Directory

+ Add Manage Policies ...

Search... Subscriptions == global filter

My role == all

Status == all

Add filter

Subscription name ↑↓

Free Trial ...

< Previous Page 1 of 1 Next >

Free Trial | Resource providers

Subscription

pro

Re-register Unregister Refi

Diagnose and solve problems

Security

Settings

Programmatic deployment

Usage + quotas

Resource providers

Properties

Help

New Support Request

container

Provider

Microsoft.ContainerService

Microsoft.ContainerInstance

Microsoft.ContainerRegistry

Microsoft.HybridContainerService

Resource Provider Details

Microsoft.ContainerRegistry

Resource Types

registries

Default API Version: None

API Versions API Profiles Capabilities Locations JSON

API Versions

2023-01-01-preview

2022-12-01

2022-02-01-preview

2021-12-01-preview

2021-09-01

2021-08-01-preview

2021-06-01-preview

2020-11-01-preview

2019-12-01-preview

2019-05-01

2017-10-01

Azure DevOps ggangwar861 / Gajendra Devops Project / Pipelines / Releases / New release pipeline (9)

Search

Save Create release ...

All pipelines > New release pipeline (9)

Pipeline Tasks Variables Retention Options History

registry Deployment process

Agent job Run on agent

azure conatiner registry arm template ARM template deployment

PowerShell Script PowerShell

build Docker

Push an image Docker

azure container instance arm template ARM template deployment

template location *

Linked artifact

Template * ①

\$(System.DefaultWorkingDirectory)/_Arm deploy/drop/ARMTemplates/ContainerRegistry.azrm.json

Template parameters ①

Override template parameters ①

Deployment mode * ①

Incremental

Advanced ^

Deployment name ①

GetResourceNames_\$(Release.ReleaseName)

Deployment outputs ①

DeploymentOutput

Gajendra DevOps Project

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Releases

Library

Task groups

Deployment groups

Test Plans

Artifacts

Project settings

All pipelines > New release pipeline (9)

Pipeline Tasks Variables Retention Options History

registry

Deployment process

Agent job

Run on agent



azure container registry arm template

ARM template deployment



PowerShell Script

PowerShell



build

Docker



Push an image

Docker



azure container instance arm template

ARM template deployment

PowerShell

Task version 2.*

Display name *

PowerShell Script

Type

File Path Inline

Script *

```
$var=ConvertFrom-Json '$(DeploymentOutput)'
$REGISTRY_NAME=$var.registry_name.value
$REGISTRY_SERVER=$var.registry_server.value
$REGISTRY_USERNAME=$var.registry_username.value
$REGISTRY_PASSWORD=$var.registry_password.value
ECHO $var.registry_name.value
ECHO $var.registry_server.value
ECHO $var.registry_username.value
ECHO $var.registry_password.value
```

Preference Variables

Advanced