

## Create DevOps Project and Create Build Pipeline

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1. Login to Azure DevOps system <https://dev.azure.com>
2. Create new Project

Create new project

Project name \*  
MySampleVTS

Description

Visibility  
Public  
Anyone on the Internet can view the project. Certain features like TFC are not supported.

Private  
Only people you give access to will be able to view the project.

Advanced

Version control  
Git

Work item process  
Scrum

Create Cancel

3. Goto your project just created and select "Repos"

Azure DevOps

v-trvo / MySampleVTS / Repos / Files / MySampleVTS

MySampleVTS is empty. Add some code!

Clone to your computer

HTTPS SSH `https://v-trvo@dev.azure.com/v-trvo/MySampleVTS/_git/MySampleVTS` OR Clone in Visual Studio

Generate Git credentials

Having problems authenticating in Git? Be sure to get the latest version of [Git for Windows](#) or our plugins for [IntelliJ](#), [Eclipse](#), [Android Studio](#) or [Windows command line](#).

or push an existing repository from command line

HTTPS SSH

```
git remote add origin https://v-trvo@dev.azure.com/v-trvo/MySampleVTS/_git/MySampleVTS
git push -u origin --all
```

4. Import your code into Azure DevOps

Azure DevOps

v-trvo / MySampleVTS / Repos / Files / MySampleVTS

MySampleVTS is empty. Add some code!

Clone to your computer

HTTPS SSH `https://v-trvo@dev.azure.com/v-trvo/MySampleVTS/_git/MySampleVTS` OR Clone in Visual Studio

Generate Git credentials

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or push an existing repository from command line

HTTPS SSH

```
git remote add origin https://v-trvo@dev.azure.com/v-trvo/MySampleVTS/_git/MySampleVTS
git push -u origin --all

or import a repository



Import



Filter repositories



MySampleVTS



New repository



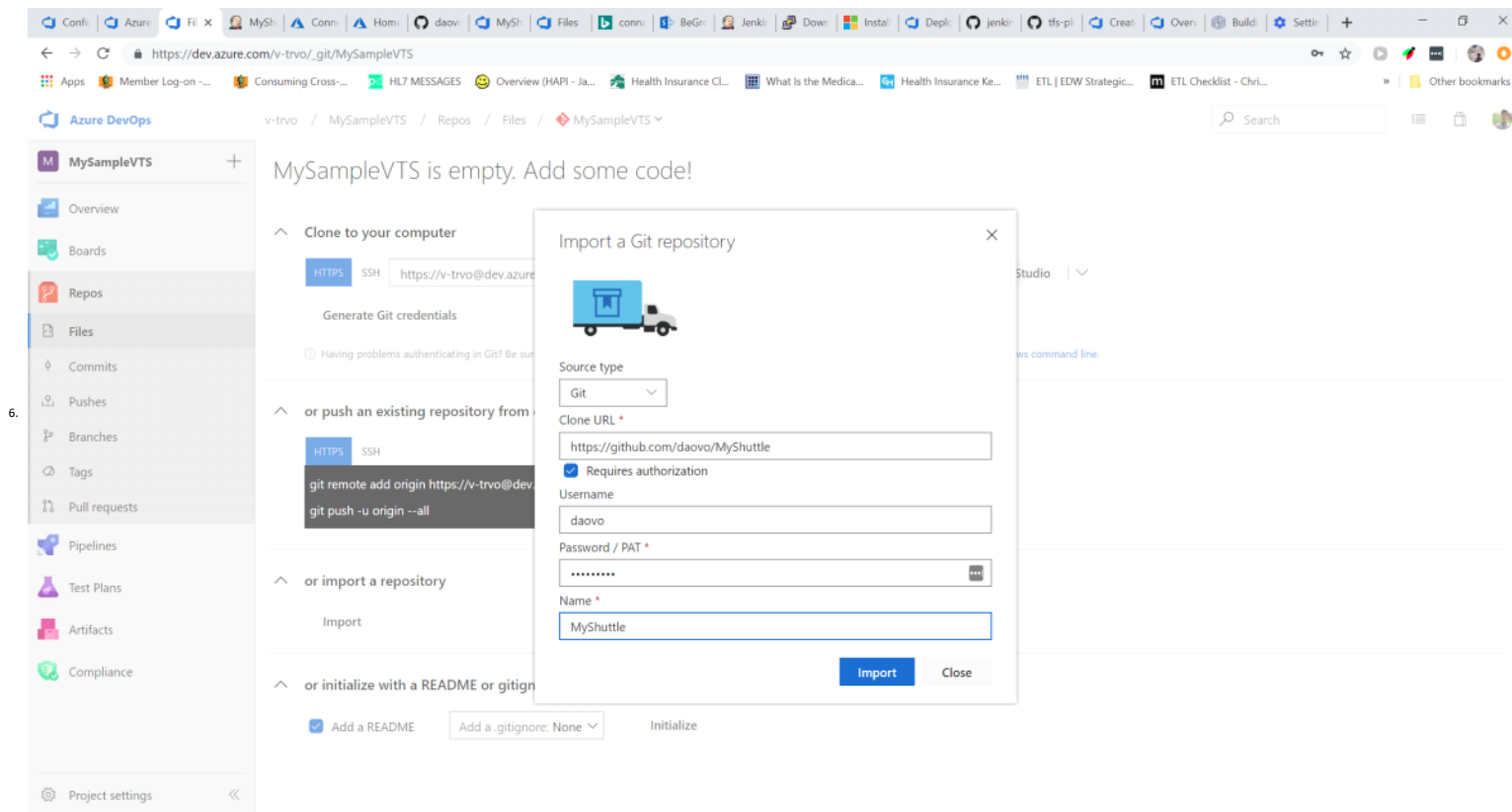
Import repository



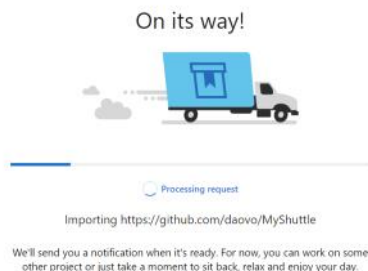
Manage repositories


```

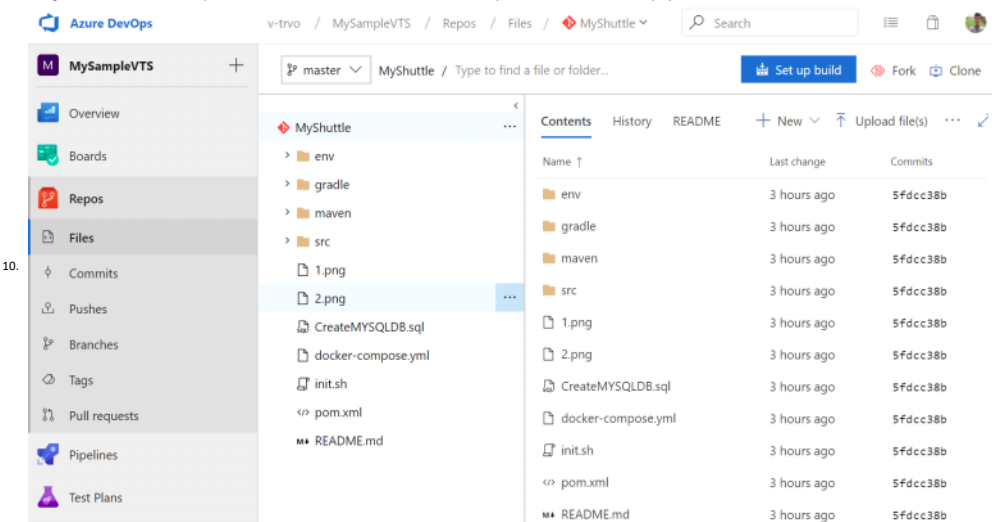
5. Click on Import button or Import repository under your repository menu, then type your repository and check in on Requires Authorization below

6. 

7. Click Import button  
8. The import processing will be ran



9. It might take few minutes to complete it. Once it finishes, an email will be sent to notice you and the screen will be displayed

10. 

11. Click on button "Set up Build" to setting pipeline, click on "New pipeline"



12.

12.

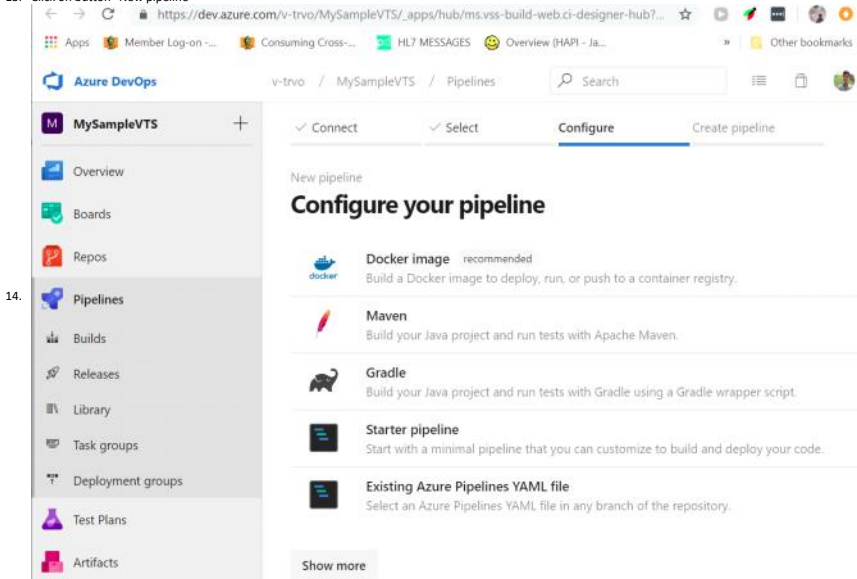


## No build pipelines were found

Automate your build in a few easy steps with a new pipeline.

New pipeline

13. Click on button "New pipeline"









14.

15. Click on "Show more", then click on "Use the classic editor" to create a pipeline without YAML.

Select Azure Repos Git, Team project and Repository  
Click on "Continue" button

Select a source



Team project

MySampleVTS

Repository

MyShuttle

Default branch for manual and scheduled builds

master

Continue

16. The screen Select a template will be displayed, type Maven into search box, select Maven -> click on Apply button under Featured section

Select a template

Or start with an [Empty job](#)

maven

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

Maven

Build and test a Java project with Apache Maven.

Apply

18. The screen will be display "Build pipeline", then select Maven pom.xml

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

**Pipeline**  
Build pipeline

Get sources  
MyShuttle master

Agent job 1  
Run on agent

- Maven pom.xml  
Maven
- Copy WAR file  
Copy Files
- Publish Artifact: drop  
Publish Build Artifacts
- Build an image  
Docker
- Push an image  
Docker

Maven ① [Link settings](#) [View YAML](#) [Remove](#)

Task version 3.\*

Display name \*  
Maven pom.xml

Maven POM file \* ①  
pom.xml ...

Goal(s) ①  
package

Options ①  
-DskipTests --settings ./maven/settings.xml

JUnit Test Results ^

☐ Publish to Azure Pipelines/TFS ①

Code Coverage ^

Code coverage tool ①  
None

19.

20. Edit copy files

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

**Pipeline**  
Build pipeline

Get sources  
MyShuttle master

Agent job 1  
Run on agent

- Maven pom.xml  
Maven
- Copy WAR file <--- Copy Files to: \$(build.artifactstagingdi...  
Copy Files
- Publish Artifact: drop  
Publish Build Artifacts
- Build an image  
Docker
- Push an image  
Docker

Copy Files ① [Link settings](#) [View YAML](#) [Remove](#)

Task version 2.\*

Display name \*  
Copy WAR file <--- Copy Files to: \$(build.artifactstagingdirectory)

Source Folder ①  
\$(build.sourcesdirectory) ...

Contents \* ①  
target/myshuttledev\*.war  
\*.sql

Target Folder \* ①  
\$(build.artifactstagingdirectory)

Advanced ^

Control Options ^

Output Variables ^

21. Leave section "Publish Artifact: drop" by default

22. Add new Docker task to build an image with ACR (Azure Container Registry) you are able to use Container Registry

Add tasks Refresh

do

23.

- Docker CLI installer  
Install Docker CLI on agent machine.
- Docker  
Build, tag, push, or run Docker images, or run a Docker command. Task can be used with Docker or Azure Container registry. [Add](#)
- Docker Compose  
Build, push or run multi-container Docker applications. Task can be used with Docker or Azure Container registry.
- Download Pipeline Artifact  
Download Pipeline Artifact

24. Then type the values as below to build an image

Display name \*

Build an image

Container Registry ^

Container registry type \*

Azure Container Registry

Azure subscription

Manage

Azure container registry

Commands ^

Command \*

build

Dockerfile \*

src/Dockerfile

Arguments

Image name \*

Web:\${Build.BuildNumber}

☒ Qualify image name

☐ Include source tags

26. Do the same with command is "push" to support push an image into ACR

Display name \*

Push an image

Container Registry ^

Container registry type \*

Azure Container Registry

Azure subscription

Manage

Azure container registry

Commands ^

Command \*

push

Arguments

☐ Push multiple images

Image name \*

Web:\${Build.BuildNumber}

☒ Qualify image name

☐ Include source tags

Azure DevOps Page 5

# Create/modify Release Pipeline

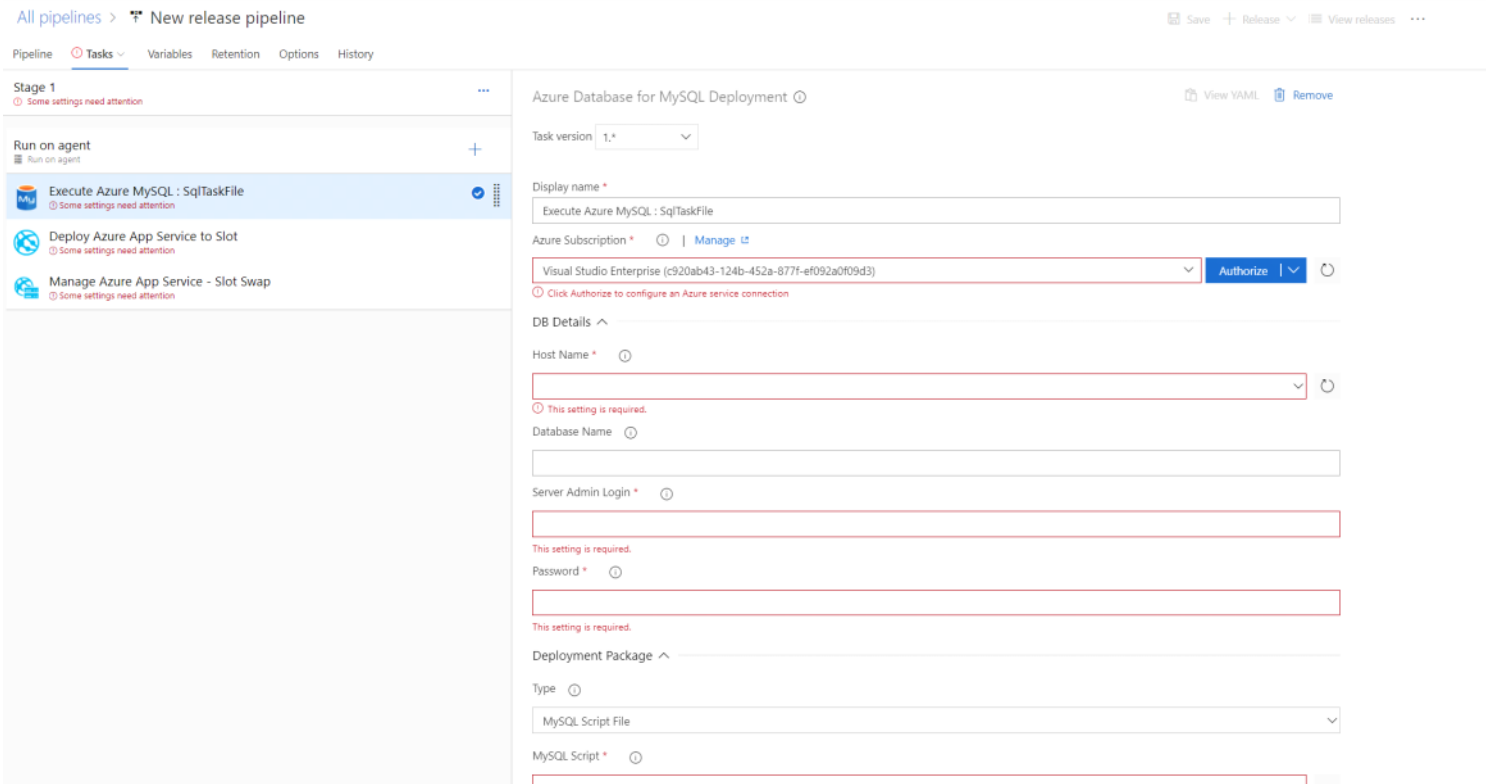
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1. From Pipelines -> click on Releases --> Create a release



- 2.

3. Select template Web application with deploy slot, then add more MySQL database as image below



- 4.
5. Select your Azure Subscription and click Authorize to allow Azure DevOps access to your Azure Subscription
6. Configure Execute Azure MySQL: SqlTaskFile

All pipelines > MyShuttleDockerRelease

Pipeline Tasks Variables Retention Options History

Azure-Dev  
Some settings need attention

Run on agent  
Run on agent

Execute Azure MySQL : SqlTaskFile  
Some settings need attention

Deploy Azure App Service  
Some settings need attention

Azure Database for MySQL Deployment

Task version 1.\*

Display name \*  
Execute Azure MySQL : SqlTaskFile

Azure Subscription \*  
This setting is required.

DB Details ^

Host Name \*  
myshuttle-db.mysql.database.azure.com

Database Name  
alm

Server Admin Login \*  
\$(DBUSER)

Password \*  
\$(DBPASSWORD)

Deployment Package ^

Type  
MySQL Script File

MySQL Script \*  
\$(System.DefaultWorkingDirectory)/\*\*/drop/CreateMySQLDB.sql

Additional MySQL Arguments

Firewall

Control Options

#### 8. Configure Deploy Azure App Service

All pipelines > MyShuttleDockerRelease

Pipeline Tasks Variables Retention Options History

Azure-Dev  
Some settings need attention

Run on agent  
Run on agent

Execute Azure MySQL : SqlTaskFile  
Some settings need attention

Deploy Azure App Service  
Some settings need attention

Display name \*  
Deploy Azure App Service

Azure subscription \*  
Manage

This setting is required.

App type \*  
Linux Web App

App Service name \*

This setting is required.  
Deploy to slot

Image Source  
Container Registry

Registry or Namespace \*

This setting is required.

Image \*  
web

Tag

Startup command

Post Deployment Action ^

Application and Configuration Settings ^

Output ^

App Service URL

Control Options

#### 10. Configure Manage Azure App Service Slot Swap

Stage 1  
Some settings need attention

Run on agent

- Execute Azure MySQL : SqlTaskFile  
Some settings need attention
- Deploy Azure App Service to Slot  
Some settings need attention
- Manage Azure App Service - Slot Swap  
Some settings need attention

Azure App Service Manage

Task version 0.\*

Display name \*  
Manage Azure App Service - Slot Swap

Azure subscription \* | Manage

This setting is required.

Action  
Swap Slots

App Service name \*

This setting is required.

Resource group \*

This setting is required.

Source Slot \*

This setting is required.

☒ Swap with Production  
☐ Preserve Vnet

Control Options

Output Variables

11.