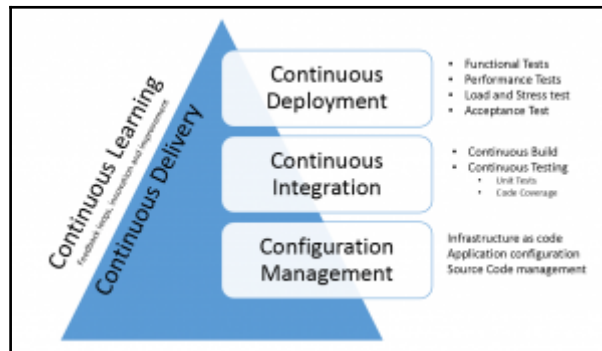
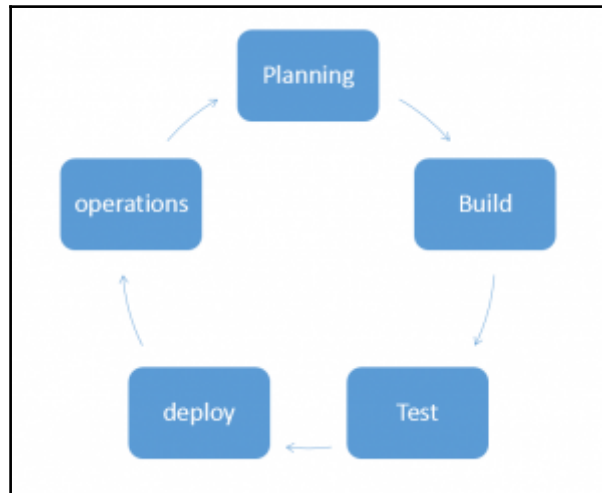
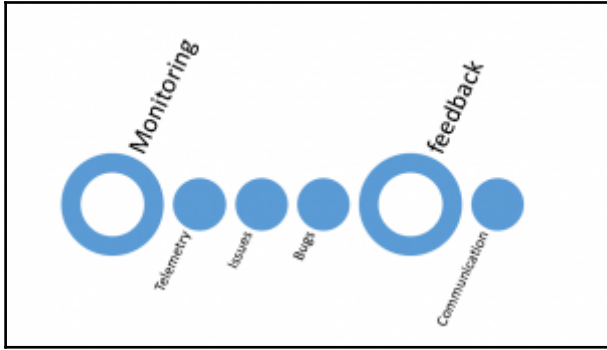


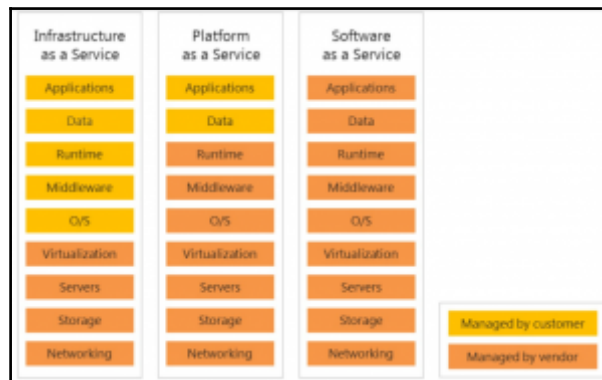
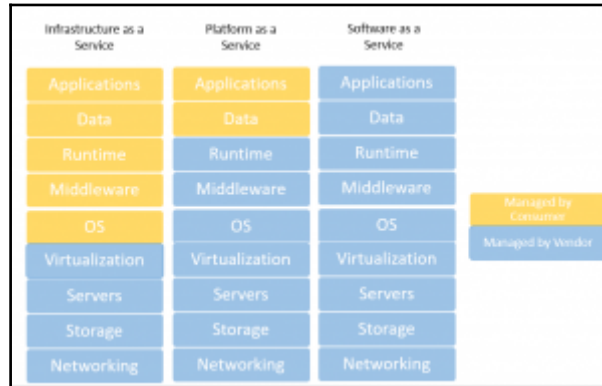
Graphic bundle

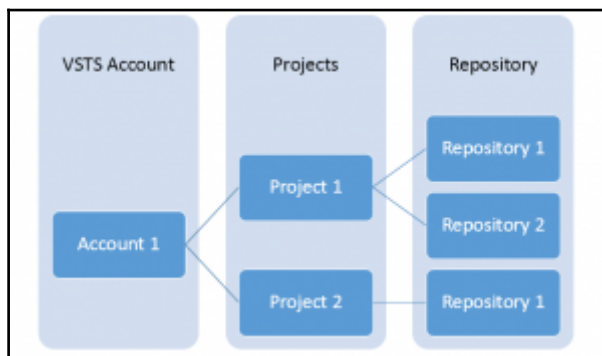
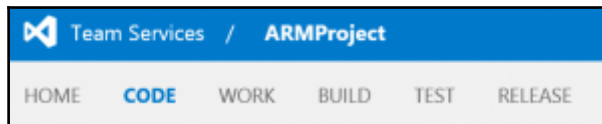
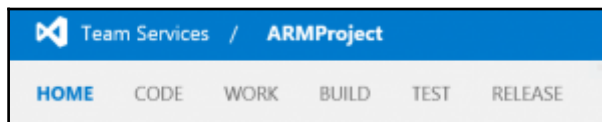
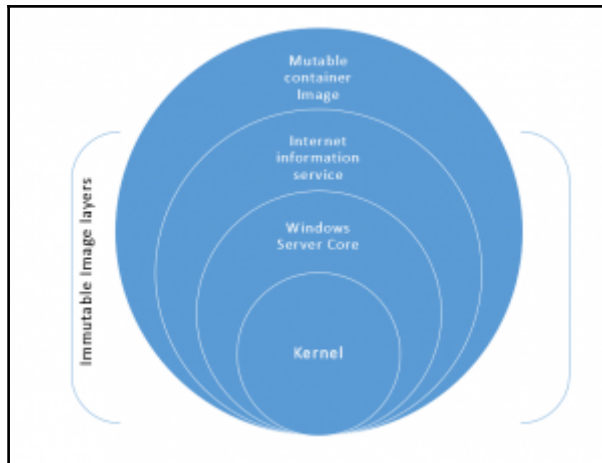
Chapter 1: Introducing DevOps





Chapter 2: DevOps Tools and Technologies





Definitions / Sample Build Definition based on Visual Studio Template | Builds

Build Options Repository Variables Triggers General Retention History

Save Queue build... Undo

+ Add build step...

- NuGet restore `***.sln`
NuGet Installer
- Build solution `***.sln`
Visual Studio Build
- Test Assemblies `**\$(BuildConfiguration)*test*.dll; -:**\obj*`
Visual Studio Test
- Publish symbols path
Inter Source & Publish Symbols
- Copy Files to: `$(build.artifactstagingdirectory)`
Copy Files
- Publish Artifact: drop
Publish Build Artifacts

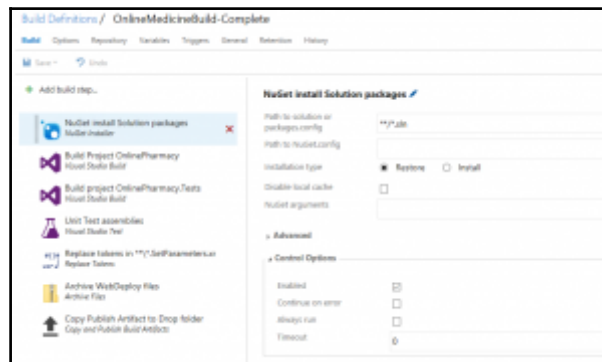
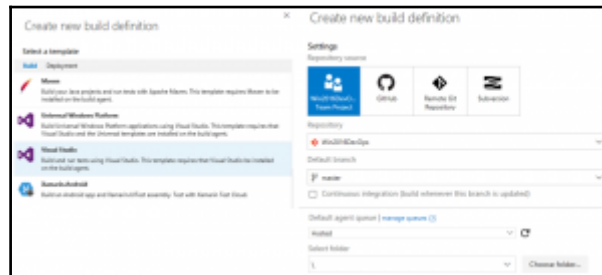
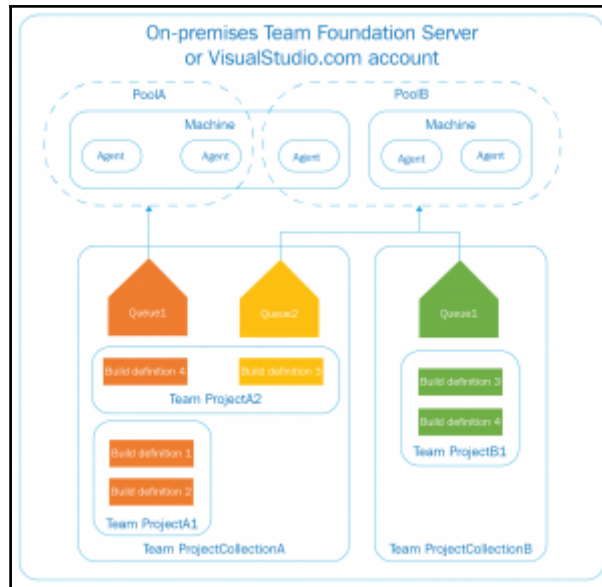
Add tasks

All Build Utility Test Package Deploy

- Android Build (deprecated, use Gradle)
Build an Android app using Gradle and optionally start the emulator for unit tests
- Android Signing
Sign and align Android APK files
- Ant
Build with Apache Ant
- Azure Cloud Service Deployment
Deploy an Azure Cloud Service
- Azure File Copy
Copy files to Azure blob or VM(s)
- Azure PowerShell
Run a PowerShell script within an Azure environment
- Azure Resource Group Deployment
Deploy, start, stop, delete Azure Resource Groups
- Azure SQL Database Deployment
Deploy Azure SQL DB using DACPAC
- Azure Web App Deployment

Don't see what you need? Check out our Marketplace!

Close



Definitions / Sample Build Definition based on Visual Studio Template | Builds

Build **Options** Repository Variables Triggers General Retention History

Save Queue build... Undo

Multi-configuration
Build multiple configurations with the same steps

Multipliers: Debug, Release

Parallel:

Continue on Error:

Create Work Item on Failure
Create a work item for each failed build

Type: Bug

Assign to requester:

Additional Fields:

[+ Add field](#)

Allow Scripts to Access OAuth Token
Enables scripts and other processes launched during the build to access the OAuth Token via the System.AccessToken variable

Definitions / Sample Build Definition based on Visual Studio Template | Builds

Build **Options** **Repository** Variables Triggers General Retention History

Save Queue build... Undo

Repository type: Git

Repository: book

Default branch: master

Clean: false

Label sources: Don't label sources

Report build status:

Checkout submodules:

Definitions / Sample Build Definition based on Visual Studio Template | Builds

Build **Options** Repository **Variables** Triggers General Retention History

Save Queue build... Undo

List of predefined variables

Name	Value	Allow at Queue Time
system.collectionid	c1e0c3ee-d872-4c0e-9f65-ad1647af7326	<input type="checkbox"/>
system.teamProject	book	<input type="checkbox"/>
system.definitionid	1	<input type="checkbox"/>
<input checked="" type="checkbox"/> system.debug	false	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> BuildConfiguration	release	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> BuildPlatform	any cpu	<input checked="" type="checkbox"/>

[+ Add variable](#)

Definitions / Sample Build Definition based on Visual Studio Template | Builds

Build Options Repository Variables Triggers **General** Retention History

Save Queue build... Undo

Continuous Integration (CI)
Build each check-in

Scheduled
Build working branches for each schedule

Definitions / Sample Build Definition based on Visual Studio Template | Builds

Build Options Repository Variables Triggers **General** Retention History

Save Queue build... Undo

Default agent queue: Hosted [Manage](#)

Build job authorization scope: Project Collection

Description:

Build number format: \$(dateyyyyMMdd\$(rev:r))

Build job timeout in minutes: 60

Badge enabled:

Demands

Name	Type	Value
msbuild	exists	
visualstudio	exists	
vsent	exists	

[+ Add demand](#)

Definitions / Sample Build Definition based on Visual Studio Template | Builds

Build Options Repository Variables Triggers General **Retention** History

Save Queue build... Undo

[+ Add new rule...](#)

Days to keep: 10 Delete build record: Branch filter: Include

Minimums to keep: 1 Delete source labels: [+ Add new filter](#)

Delete file share:

Delete symbolic:

Delete test results:

Delete test results:

Days to keep: 30 Delete build record: true Branch filter: All

Minimums to keep: 10 Delete source labels: false

Delete file share: true

Delete symbolic: true

Delete test results: true

Definitions / Sample Build Definition based on Visual Studio Template | Builds

Build Options Repository Variables Triggers General Retention **History**

Save Queue build... Undo diff

Changed By	Changed Date	Change Type	Comment
desinedatate	6/13/2016 6:06:19 PM	Add	

Permissions for OnlineMedicineBuild-Complete

ADD... Instance *

Search

- VSTS Groups

- Project Collection Administrators
- Project Collection build Administrators
- Project Collection build Service Accounts
- Project Collection Test Service Accounts
- Build Administrators
- Contributors
- Project Administrators
- Readers

- Users

- Project Collection Build Service Accounts

ACCESS CONTROL SUMMARY
Shows information about the permissions being granted to this identity

Administer build permissions	Intended allow
Delete build definitions	Intended allow
Delete builds	Intended allow
Deny builds	Intended allow
Edit build definition	Intended allow
Edit build quality	Intended allow
Manage build quality	Intended allow
Manage build queue	Intended allow
Override check-in validation by build	Intended allow
Queue builds	Intended allow
Retain indefinitely	Intended allow
Stop builds	Intended allow
Update build information	Not set
View build definition	Intended allow
View builds	Intended allow

Clear explicit permissions

Secure

Build Definitions / OnlineMedicineBuild-Complete

Build Options Repository Variables Triggers General Retention History

Save Undo

+ Add build step...

- NuGet install Solution packages
NuGet Installer
- Build Project OnlinePharmacy
Visual Studio Build
- Build project OnlinePharmacyTests
Visual Studio Build
- Unit Test assemblies
Visual Studio Test
- Replace tokens in **\SetParameters.xml**
Replace Tokens
- Archive WebDeploy files
Archive Files
- Copy Publish Artifact to Drop folder
Copy and Patch Build Artifacts

NuGet install Solution packages

Paths to solution or packages.config: ***.sln

Paths to NuGet.config

Installation type: Restore Install

Disable local cache:

NuGet arguments

Advanced

Control Options

Enabled:

Continue on error:

Always run:

Timeout: 0

OnlineMedicineBuild-Complete (Build)

Build Options Repository Variables Triggers General Retention History

Save Undo

+ Add build step...

- Replace tokens in **\SetParameters.xml**
Replace Tokens
- Build Project OnlinePharmacy
Visual Studio Build
- Build project OnlinePharmacyTests
Visual Studio Build
- Unit Test assemblies
Visual Studio Test
- Archive WebDeploy files
Archive Files
- Copy Publish Artifact to Drop folder
Copy and Patch Build Artifacts

Archive WebDeploy files

Archive Files

Files to archive: ***.zip

Destination: **\Drop

Advanced

Control Options

Enabled:

Continue on error:

Always run:

Timeout: 0

Create new release definition

Select a template

Deployment

- Azure Cloud Service Deployment
Deploy on Azure Cloud Service
- Azure Website Deployment
Deploy and test your Azure website

Empty
Start with an empty definition

Artifacts
Choose a source that publishes the artifact to be deployed

Project:

Source (Build definition):

Template Build Definition based on Visual Studio Template

Continuous deployment: create release and deploy whenever build completed

Queue:

Queue on agent queue: [View queue](#)

Queue:

Next Cancel
Previous Create Cancel

Definition: New Empty Definition 20160615

Environments | Artifacts | Variables | Triggers | General | History

Save | Release

+ Add environment

Environment 1 ...

0 tasks

👤 | ⚙️

+ Add tasks

Definition: New Empty Definition

Environments | Artifacts | Variables | Triggers | General | Retention | History

Save | Release

+ Add environment

Environment 1 ...

0 tasks

👤 | ⚙️

+ Add tasks

Run on agent

+ Add tasks

Definition: OnlineMedicineRelease-Complete [Releases](#)

Environments Artifacts **Variables** Triggers General Retention History

🔄 | 📄 Save | + Release ▾

Variable Groups

Include variable groups to use the variables in this release definition. You can manage variable groups [here](#).
No variable groups are linked.

[Link variable group\(s\)](#)

Variables

Define custom variables to use in this release definition. View list of [pre-defined variables](#)

Name	Value
StorageAccountName	win2016devops1
ContainerName	armt
resourceGroupName	win2016devops
StorageSAS	*****

+ Add variable

Definition: New Empty Definition 20160615 [Releases](#)

Environments Artifacts Variables **Triggers** General History

🔄 | 📄 Save | + Release ▾

Release trigger

Release trigger specifies when and how a new release will get created.

Manual
Create a new release manually using the "Release" action.

Continuous Deployment
Creates a new release every time a new artifact version is available.

Scheduled
Create a new release at a specified time.

Environment triggers

Environment triggers specify when and how a deployment will be triggered on an environment.

Environment	Trigger
Environment 1	Automated: after release creation ✎

Definition: OnlineMedicineRelease-Complete [Releases](#)

Environments Artifacts Variables Triggers **General** Retention History

🔄 | 📄 Save | + Release ▾

Release name format [🔗](#)

Definition: OnlineMedicineRelease-Complete [Releases](#)

Environments Artifacts Variables Triggers General Retention **History**

🔄 | 📄 Save | + Release ▾ | 📄 Diff

Changed By	Changed Date	Change Type	Comment
desiredstate	12/10/2016 4:32 AM	Update	

Definition: New Empty Definition 20160615 [Releases](#)

Environments Artifacts Variables Triggers General History

🔄 | 📄 Save | + Release ▾

+ Add environment ▾ | + Add tasks

Authoring ...

3 / 3 tasks enabled

0 👤 | 📄

Production

3 / 3 tasks enabled

0 👤 | 📄

- 👤 Assign approvers...
- 👤 Agent queue...
- ⚙️ Configure variables...
- 📄 Deployment conditions...
- ✖ Delete
- 📄 Clone environment
- 📄 Save as template...
- 🔒 Security...

AzureBlob File Copy ... ✖

Copy

PowerShell script: \$(System.DefaultWorkingDir) PowerShell

Deployment: Create Or Update Resource Group Deployment

Definition: OnlineMedicineRelease-Complete [Releases](#)

Environments Artifacts Variables Triggers General Retention History

🔄 | 📄 Save | + Release ▾

+ Add environment ▾ | + Add tasks ▾

Preparation ...

2 / 2 tasks enabled

0 👤 | 📄

test environment

5 / 5 tasks enabled

0 👤 | 📄

Prod environment

5 / 5 tasks enabled

0 👤 | 📄

- 👤 Assign approvers...
- ⚙️ Configure variables...
- 📄 Deployment conditions...
- ✖ Delete
- 📄 Clone environment
- 📄 Save as template...
- 🔒 Security...

AzureBlob File Copy ... ✖

File Copy

PowerShell

Configure - 'Authoring' environment

Approvals Queue Variables General Deployment conditions

Approvals

Select the users who can approve or reject the deployments to this environment. [?](#)

Pre-deployment approver Automatic
 Specific Users

Post-deployment approver Automatic
 Specific Users

Options

Send an email notification to the approver when the approval is pending on

User creating the release should not approve the release

OK Cancel

Configure - 'Authoring' environment

Approvals Queue Variables General Deployment conditions

Configure queue

Select a queue for this environment.

Deployment queue:

Demands

Name	Type	Value
<input type="text" value="azurmp"/>	<input type="text" value="exists"/>	
<input type="text" value="Name"/>	<input type="text" value="exists"/>	

[+ Add demand](#)

OK Cancel

Configure - 'Authoring' environment

Approvals Queue Variables General Deployment conditions

Variable

Define custom variables to use in this environment. You can also use [pre-defined variables](#).

Name	Value
<input type="text" value="ProductionVariable"/>	<input type="text" value="Production Value"/>

[+ Add variable](#)

OK Cancel

Configure - 'Authoring' environment

Approvals Queue Variables **General** Deployment conditions

Environment owner

Send email notifications Always Only on failure Never
 Environment owner Release creator

Skip artifacts download

Deployment timeout in minutes

Allow scripts to access OAuth token

OK Cancel

Configure - 'Authoring' environment

Approvals Queue Variables General **Deployment conditions**

Trigger
 Define the trigger that will start deployment to this environment.
 No automated deployment
 After release creation
 Scheduled
 Trigger a new deployment to this environment at a specified time.
 24h time: : (UTC) Coordinated Universal Time
 Su M Tu W Th F Sa

After successful deployment on another environment

Options
 Define behavior when multiple releases are waiting to be deployed on this environment.
 Allow multiple releases to be deployed at the same time
 Allow only one active deployment at a time

OK Cancel

You're on your way to managing Microsoft projects with Visual Studio Team Services

Create your account

visualstudio.com

Manage code using

Git
 Team Foundation Version Control

We will host your projects in South Central US region.
 You can also work with other Microsoft icons.
[Change details](#)

Continue

You're on your way to managing Microsoft projects with Visual Studio Team Services

Create your account

rgremscott@visualstudio.com

Manage code using:

Git

Team Foundation Version Control

Organize work using:

Agile

Host your projects in:

South Central US

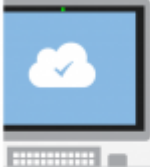
You can share the work with other users of:

[Microsoft \(Change\)](#)

Creating project

Microsoft Azure

HOME PRICING DOCUMENTATION DOWNLOADS COMMUNITY SUPPORT ACCOUNT



Welcome to Microsoft Azure!

[Click here to get started!](#)

develop
Learn how to build and deploy Microsoft Azure applications by visiting the "Developer" section of the website.

DEVELOPER CENTER

account
Track your Microsoft Azure usage and manage your subscription by visiting the "Account" section of the website.

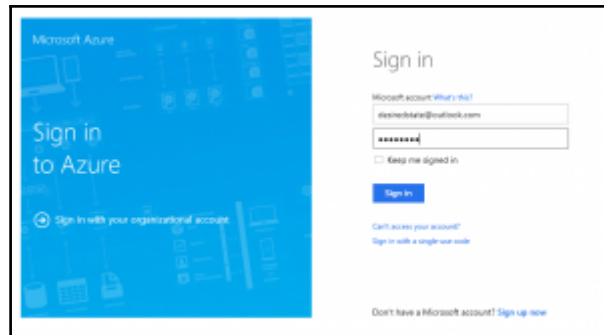
ACCOUNT CENTER

manage
Configure and control your Microsoft Azure services and applications by visiting the Azure portal.

AZURE PORTAL

English

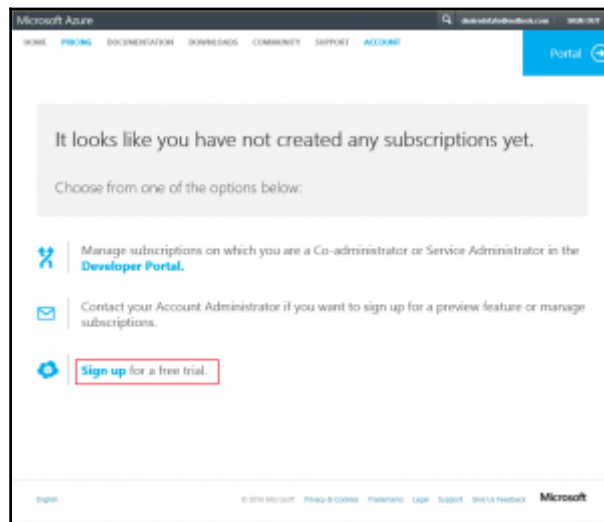
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Sign in

Can't access your account?
Sign in with a single sign-on suite

Don't have a Microsoft account? [Sign up now](#)



Sign up

Free Trial

[Learn more](#)

Microsoft Azure

[@microsoft](#)

1 About you

FIRST NAME	LAST NAME	COUNTRY/REGION
<input type="text" value="John"/>	<input type="text" value="Smith"/>	<input type="text" value="India"/>
CONTACT EMAIL	COMPANY/SCHOOL	WORK PHONE
<input type="text" value="john.smith@microsoft.com"/>	<input type="text" value="Optional"/>	<input type="text" value=""/>

2 Verification by phone

Send text message Call me

India (+91)
<input type="text" value=""/>

3 Verification by card

This information is collected only to verify your identity. You will not be charged unless you explicitly upgrade to a paid offer.

4 Agreement

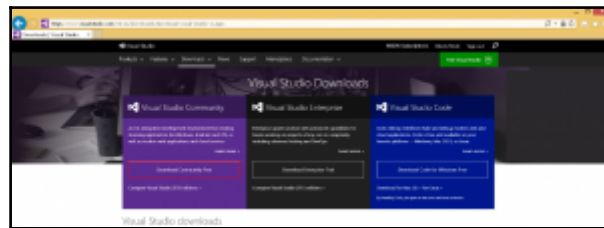
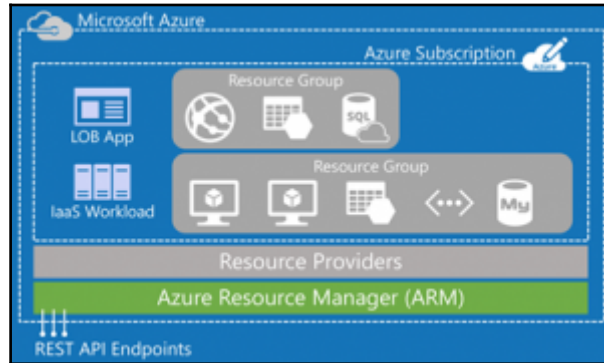
I agree to the [subscription agreement, offer details, and privacy statement](#).

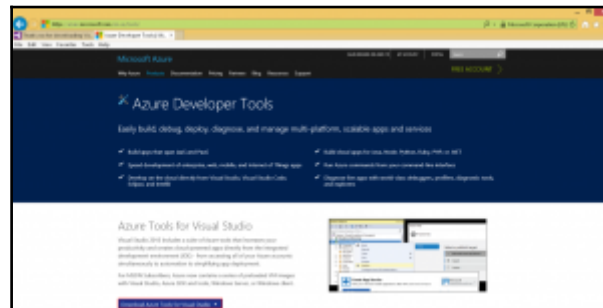
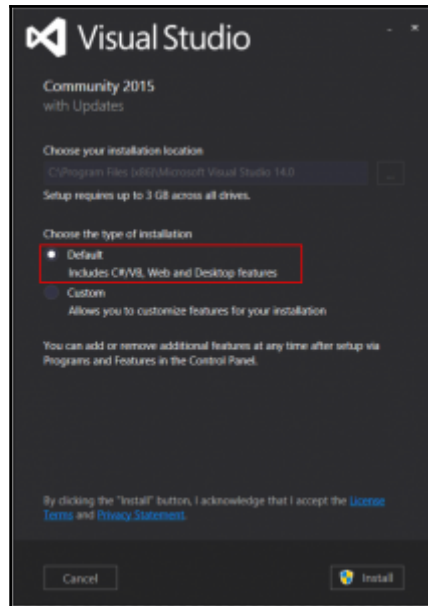
Microsoft may use my email and phone to provide special Microsoft Azure offers.

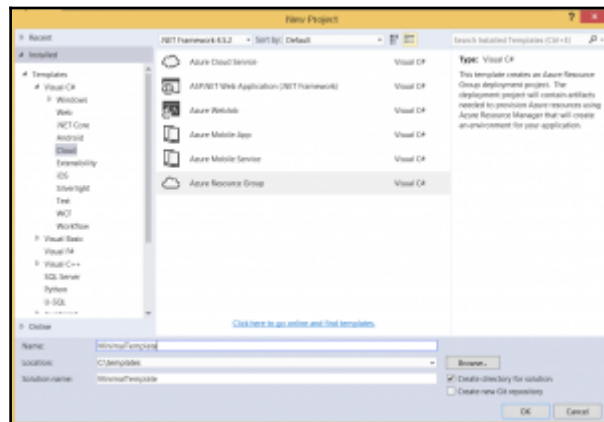
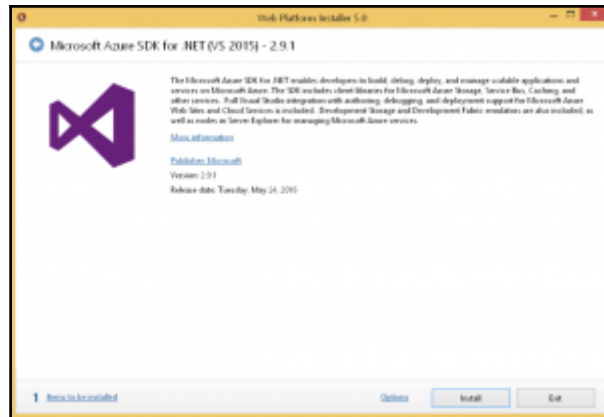
English

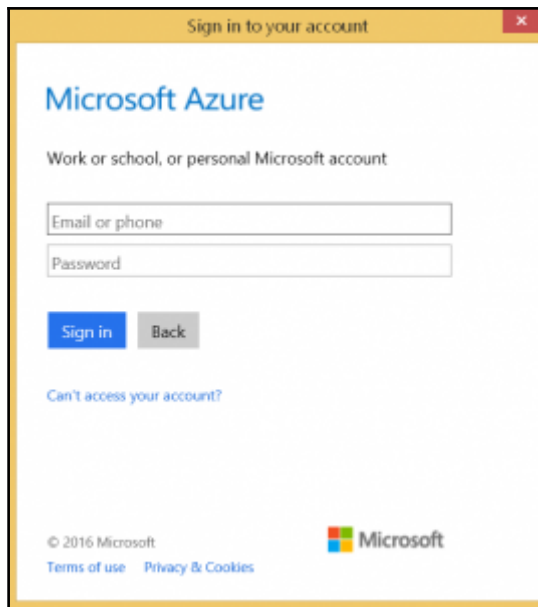
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Chapter 3: DevOps Automation Primer









```
PS C:\> Invoke-Pester -Script "C:\Addition\Add-Numbers.Tests.ps1"
Describing test cases: adding two numbers
  [+] checking when both the number are positive 405ms
  [+] checking when one number is positive and another negative 99ms
Tests completed in 504ms
Passed: 2 Failed: 0 Skipped: 0 Pending: 0
PS C:\>
```

```

PS C:\> Invoke-Pester -Script "C:\Addition\Add-Numbers.Tests.ps1"
Describing test cases adding two numbers
[+] checking when both the number are positive 404ms
[+] checking when one number is positive and another negative 99ms
Tests completed in 504ms
Passed: 2 Failed: 0 Skipped: 0 Pending: 0

PS C:\> Invoke-Pester -Script "C:\test-WebServer.ps1"
Describing Status of web server

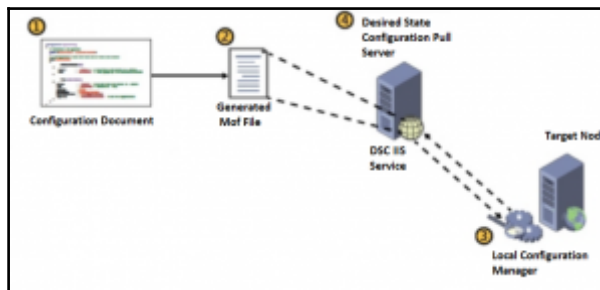
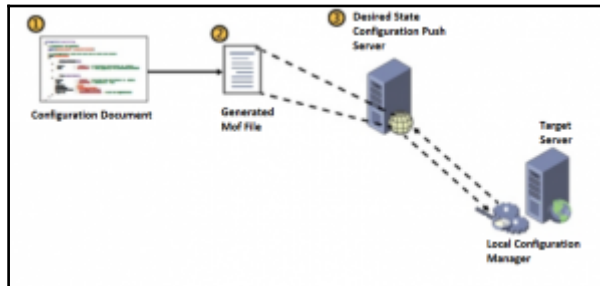
Name                State      Applications
-----
TestAppPool         Started

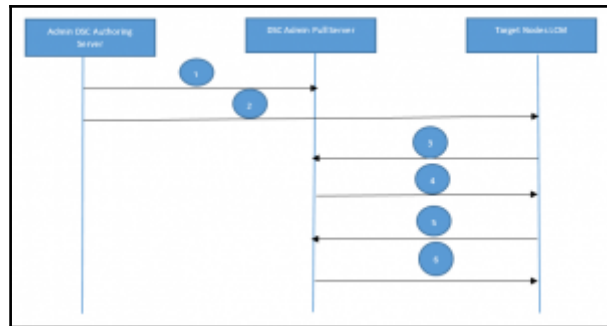
Name                : TestWebsite
ID                  : 3
State              : Started
PhysicalPath       : C:\inetpub\wwwroot
Bindings           : Microsoft.IIS.PowerShell.Framework.ConfigurationElement

Context is website already exists with valid values
[+] checking whether the website exists 372ms
[+] checking if website is in running condition 15ms
Tests completed in 573ms
Passed: 2 Failed: 0 Skipped: 0 Pending: 0

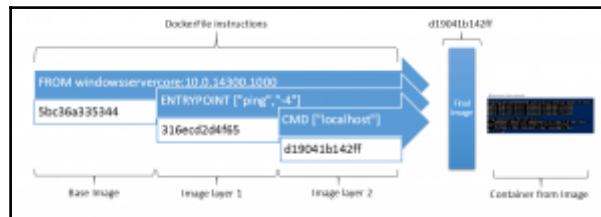
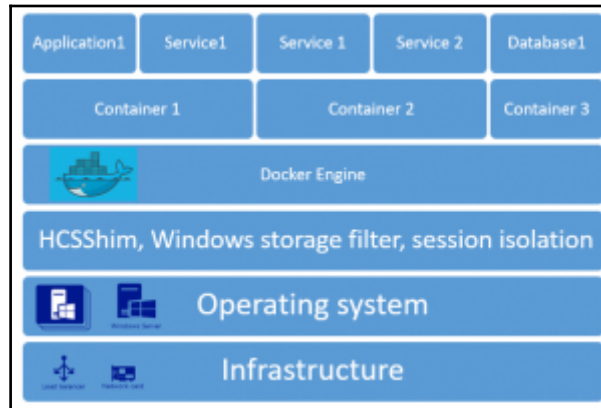
PS C:\>

```

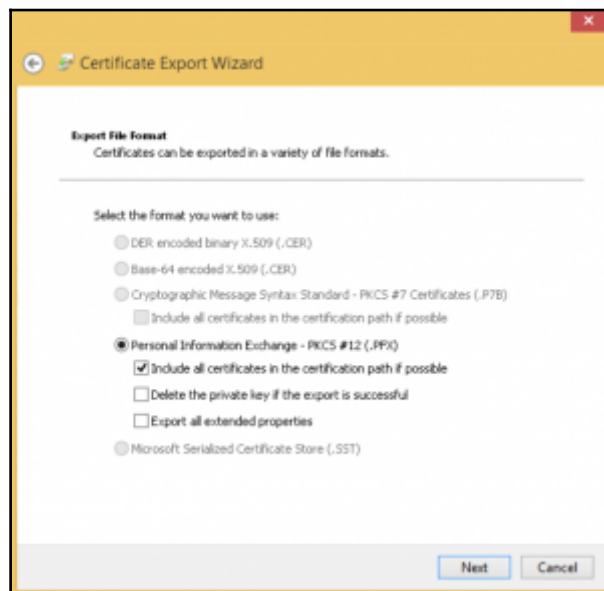
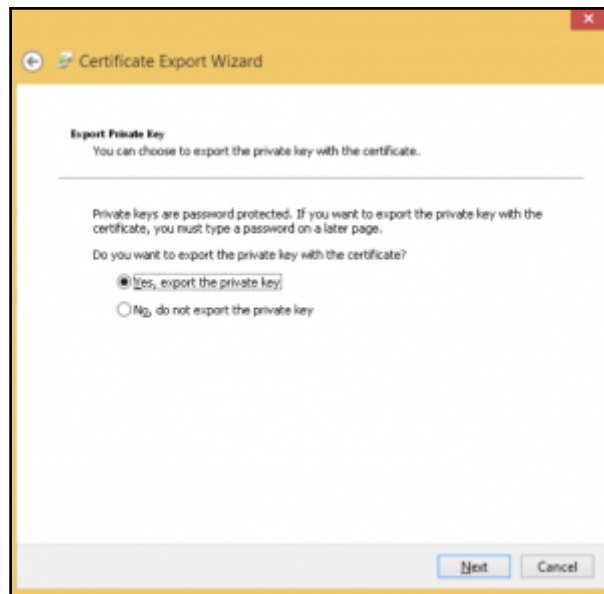




Chapter 4: Nano, Containers, and Docker Primer



NAME	TYPE	LOCATION	
mycontainervm	Virtual machine	West US	...
TestNIC	Network inter...	West US	...
TestPIP	Public IP addr...	West US	...
TestNet	Virtual network	West US	...
mycontainerstore	Storage accou...	West US	...



Certificate Export Wizard

Security
To maintain security, you must protect the private key to a security principal or by using a password.

Group or user names (recommended)

Add
Remove

Password:

Confirm password:

Next Cancel

Certificate Export Wizard

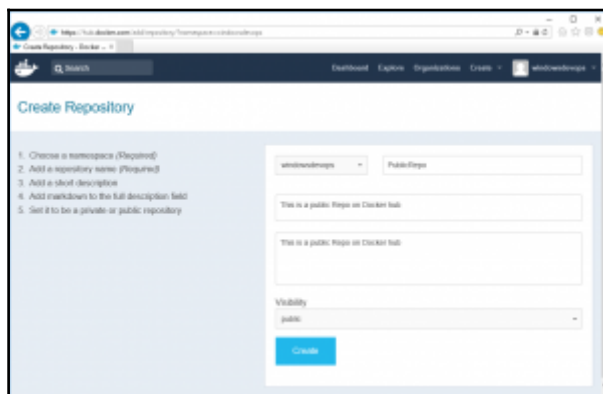
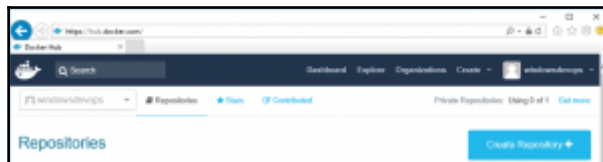
File to Export
Specify the name of the file you want to export

File name:
C:\nanocert.pfx

Browse...

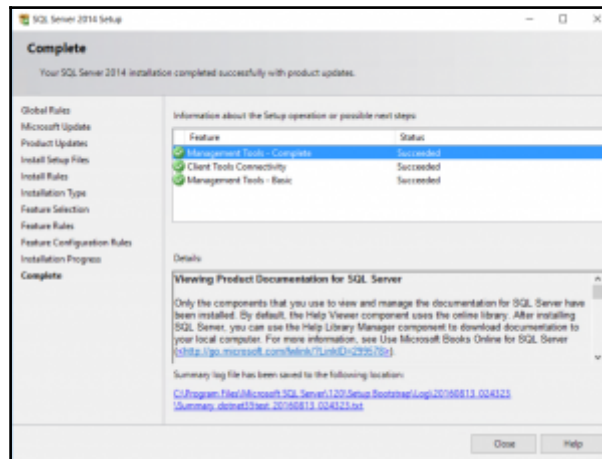
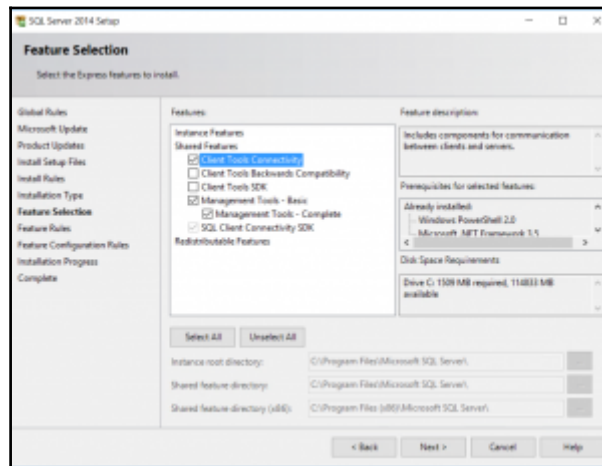
Next Cancel

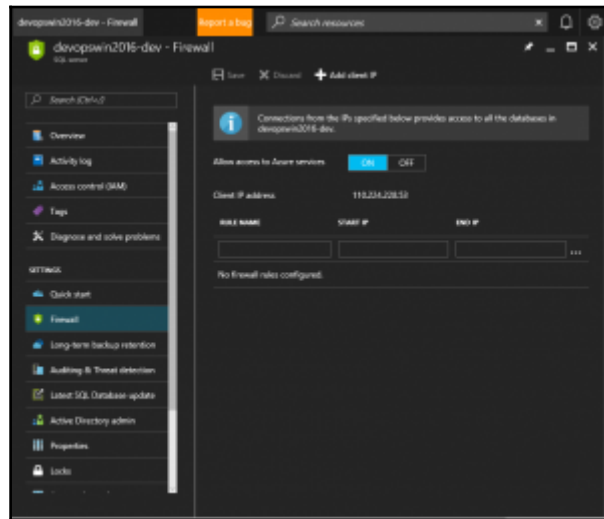
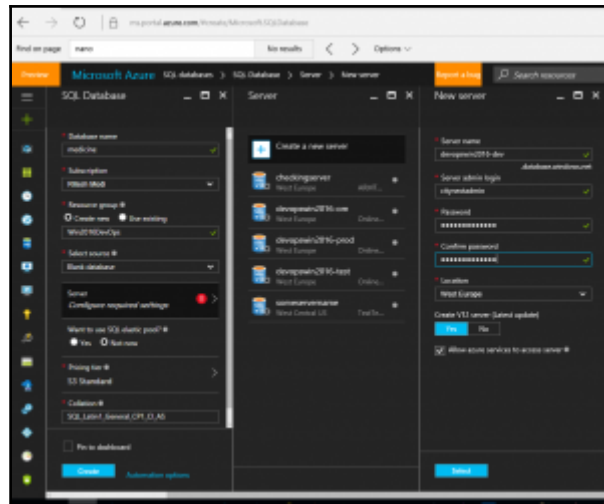
```
azuredeploy.json
Schema: https://schema.management.azure.com/schemas/2015-01-01/DeploymentTemplate.json#
{
  "$schema": "https://schema.management.azure.com/schemas/2015-01-01/DeploymentTemplate.json#",
  "contentVersion": "1.0.0.0",
  "parameters": {
  },
  "variables": {
  },
  "resources": [
  ],
  "outputs": {
  }
}
```

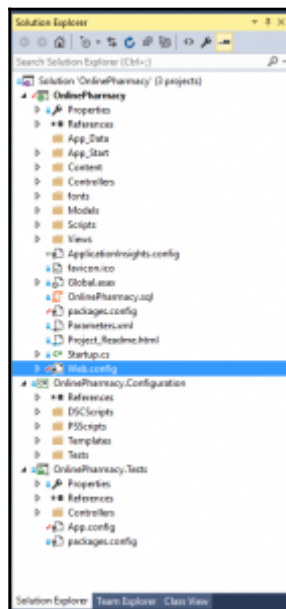
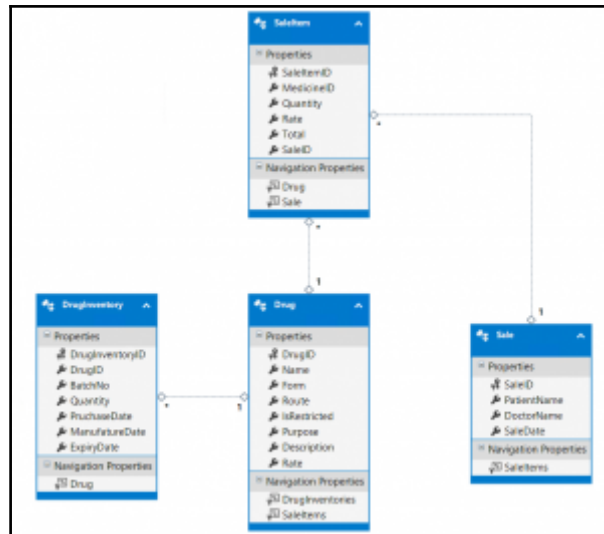


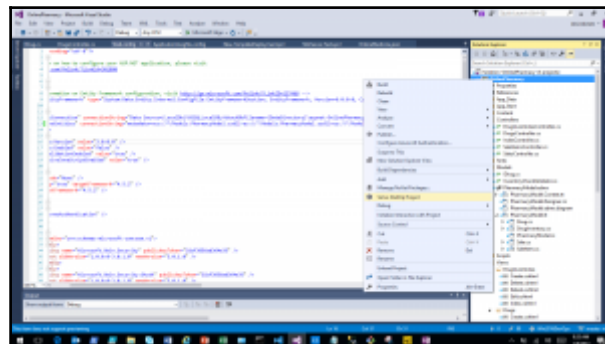
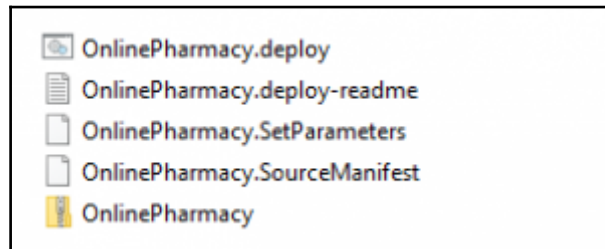
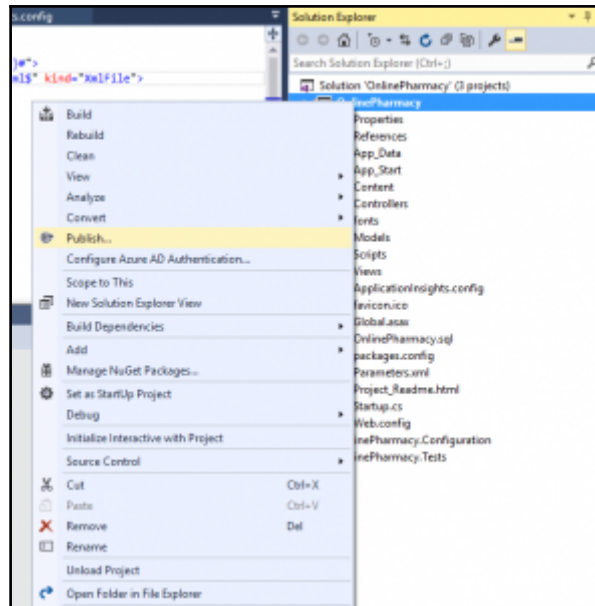
Chapter 5: Building a Sample Application

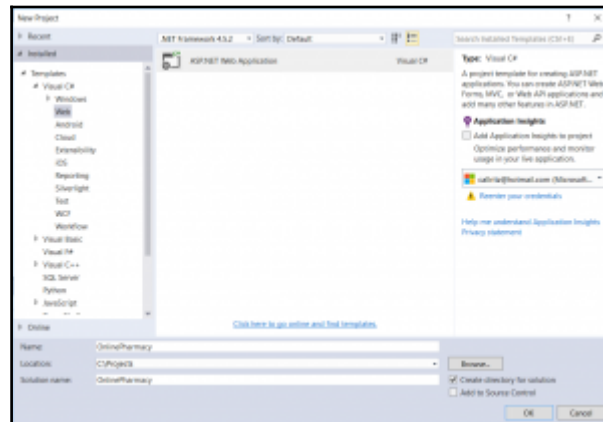
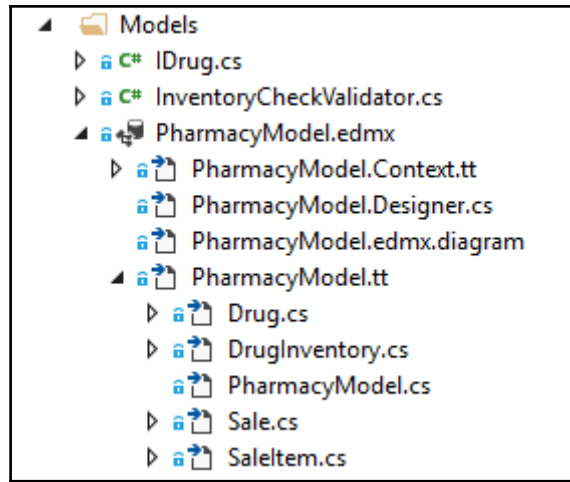


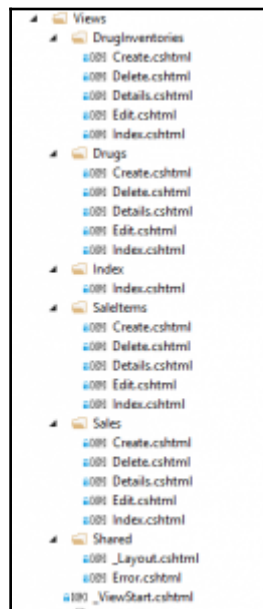
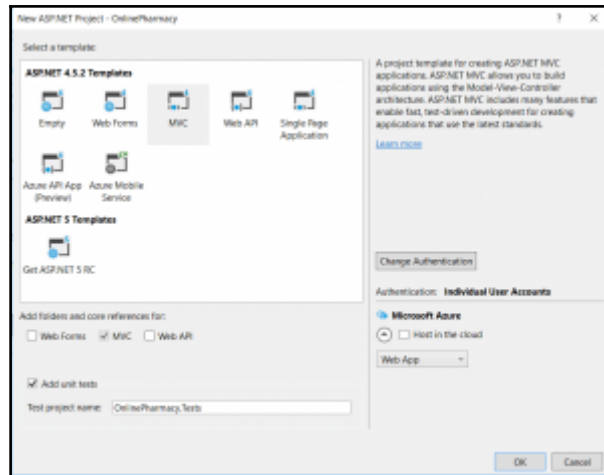


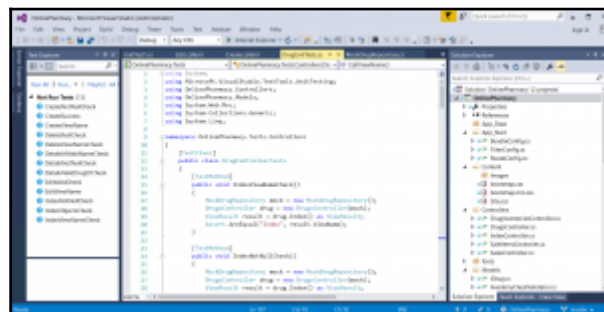
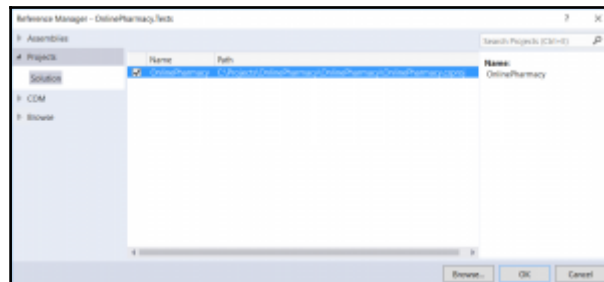
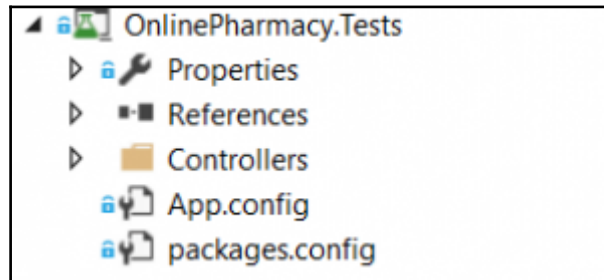




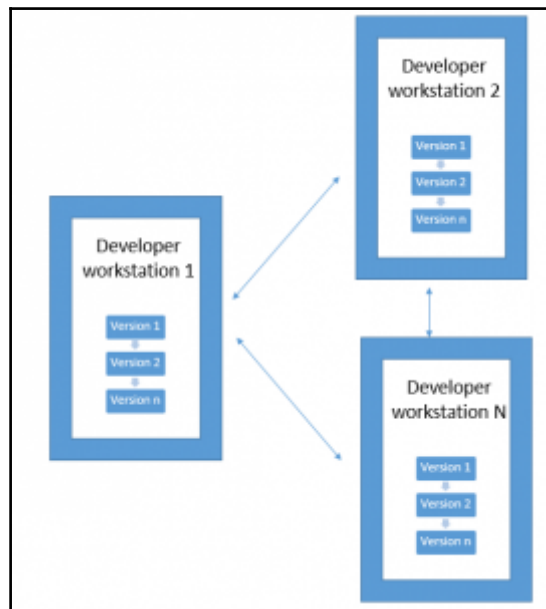
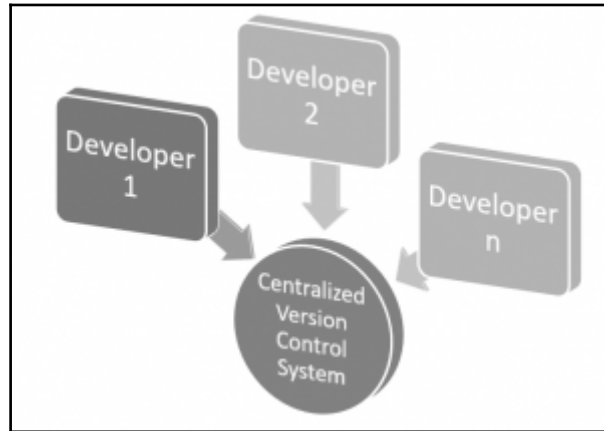


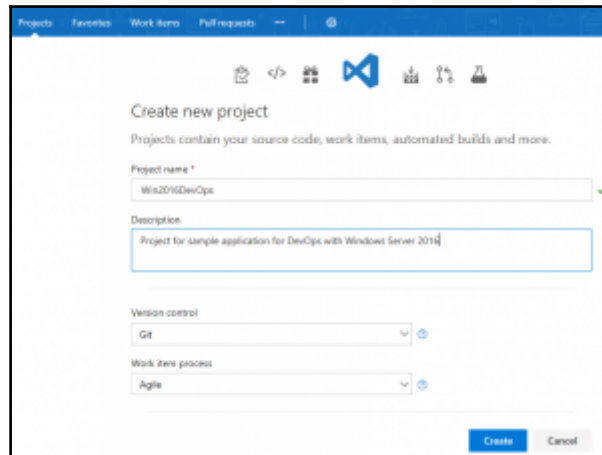
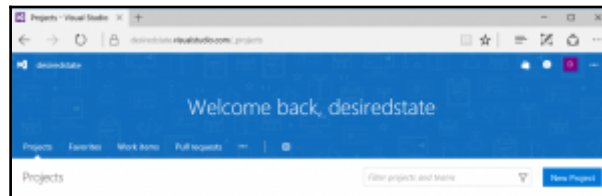
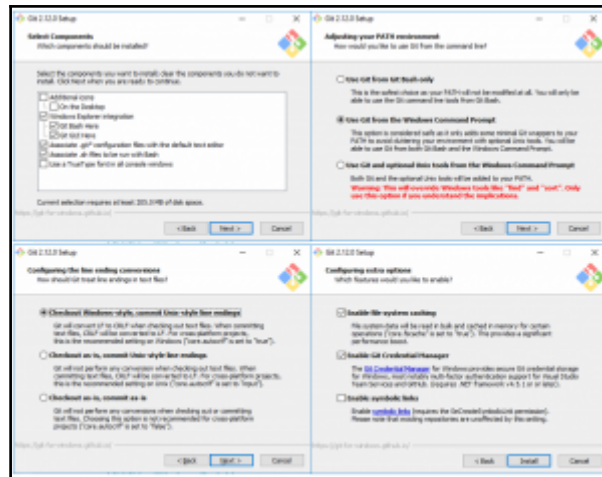


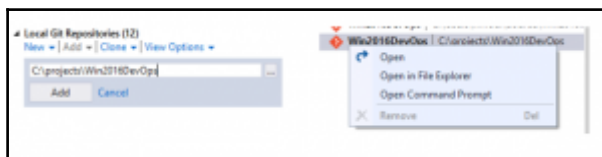
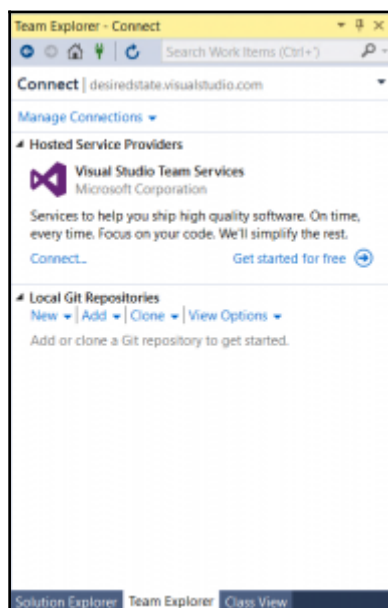
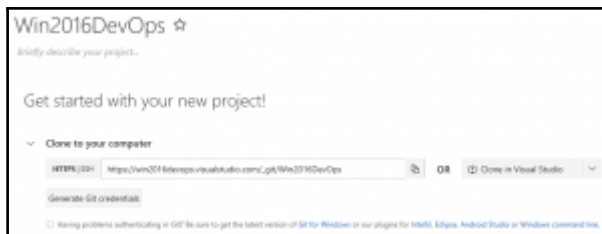


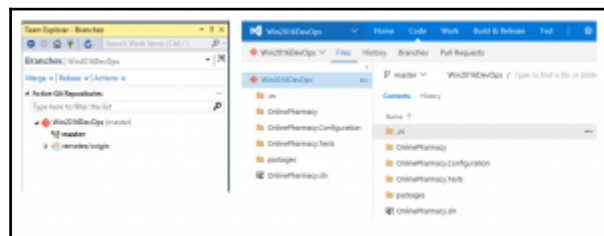
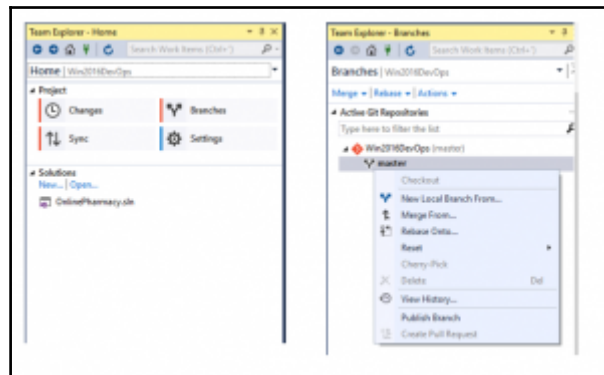
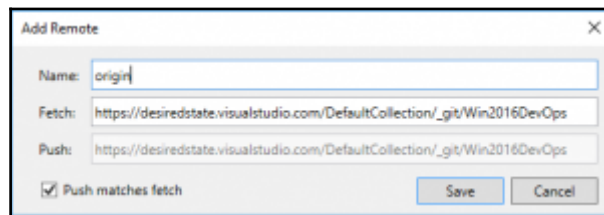
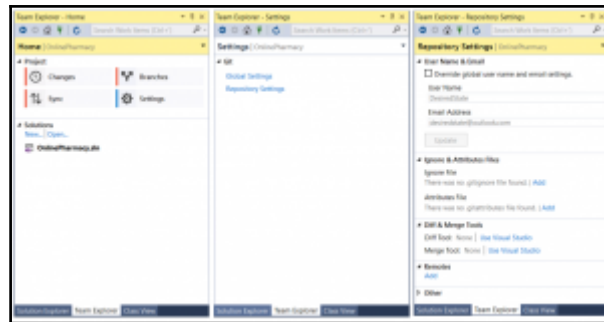


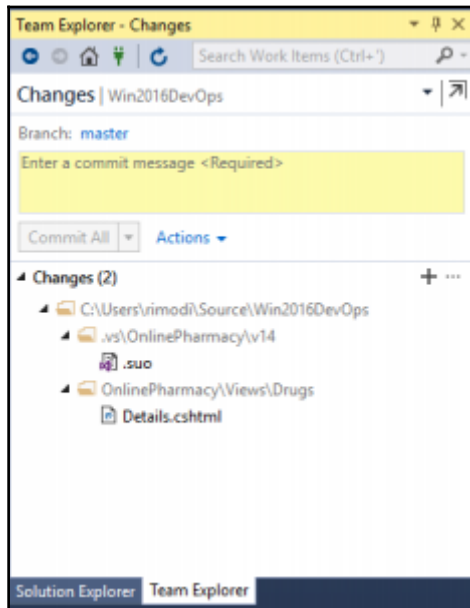
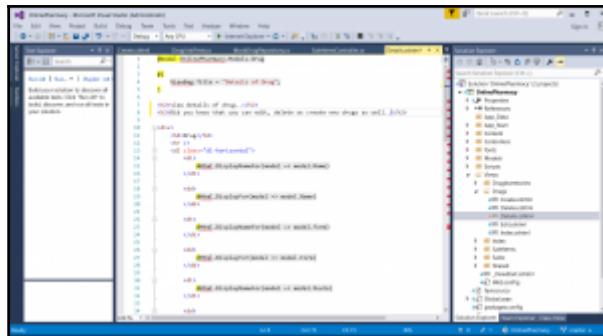
Chapter 6: Source Code Control

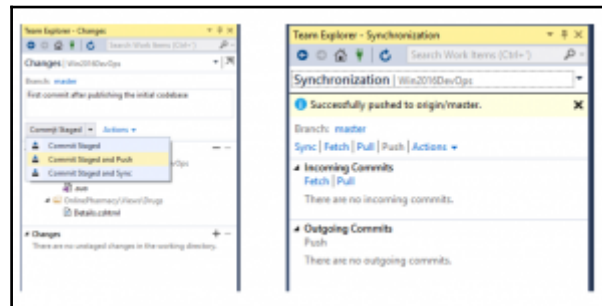
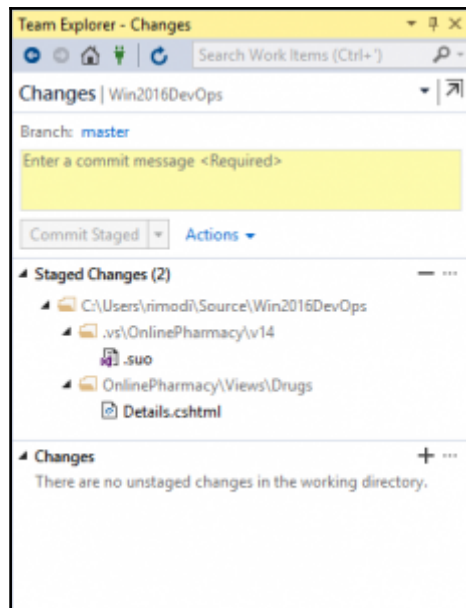


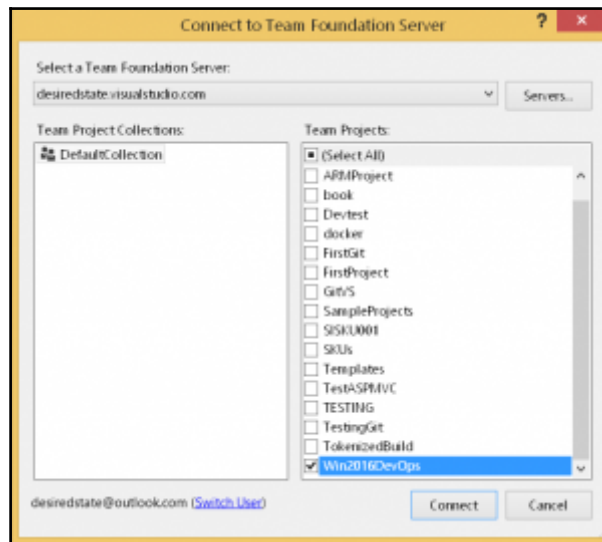
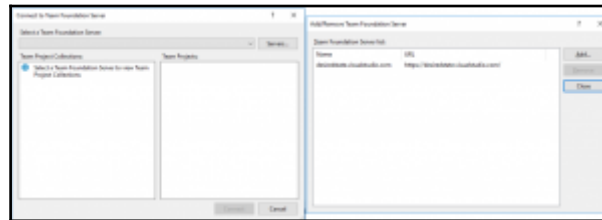
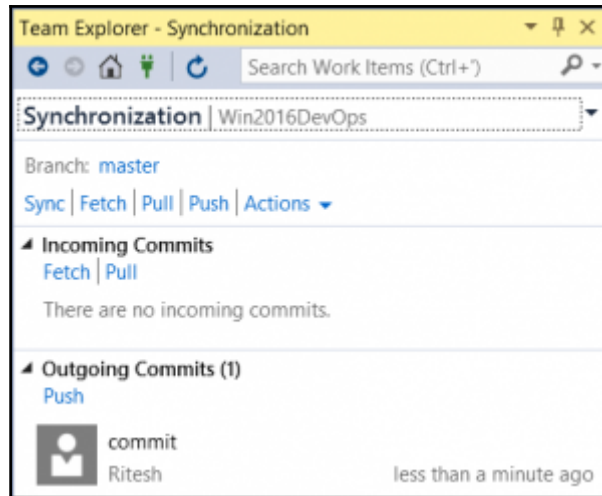


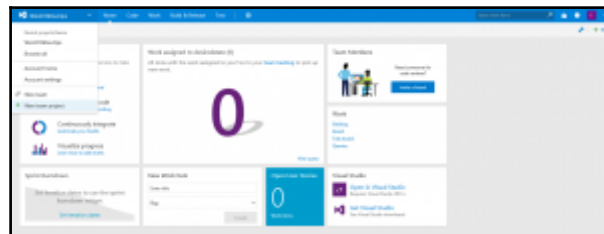
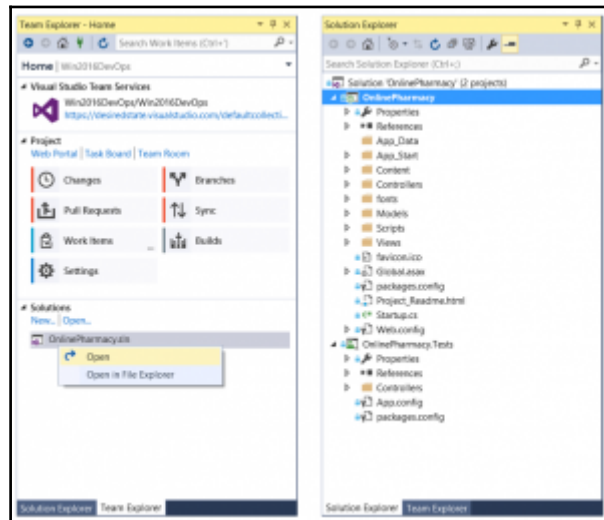
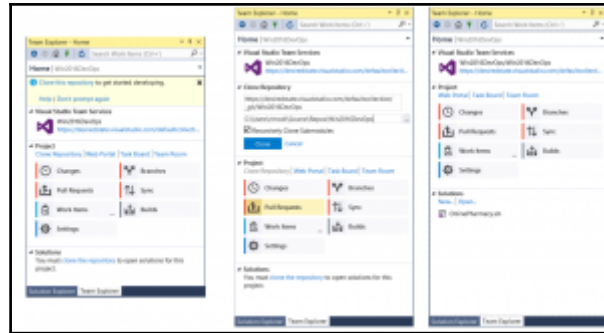












Create team project

Project name
ProjectCloneExample

Description
This project is created blank in VSTS. It will be cloned in a Development machine and a visual studio project will be added to it

Process template
Agile

This template is flexible and will work great for most teams using Agile planning methods, including those practicing Scrum.

Version control
Git

Git is a Distributed Version Control System (DVCS) that uses a local repository to track and version files. Changes are shared with other developers by pushing and pulling changes through a remote, shared repository.

Create project Cancel

Connect to Team Foundation Server

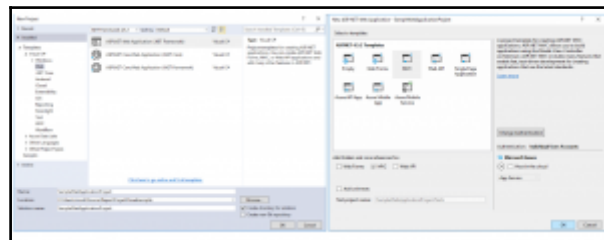
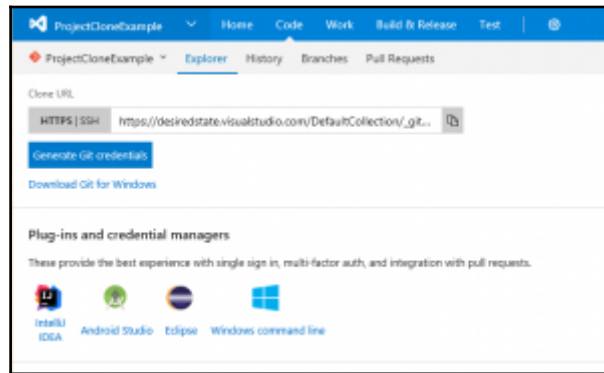
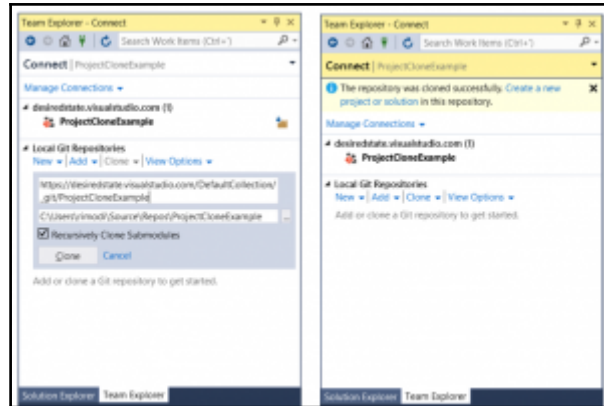
Select a Team Foundation Server:
desiredstate:visualstudio.com Servers...

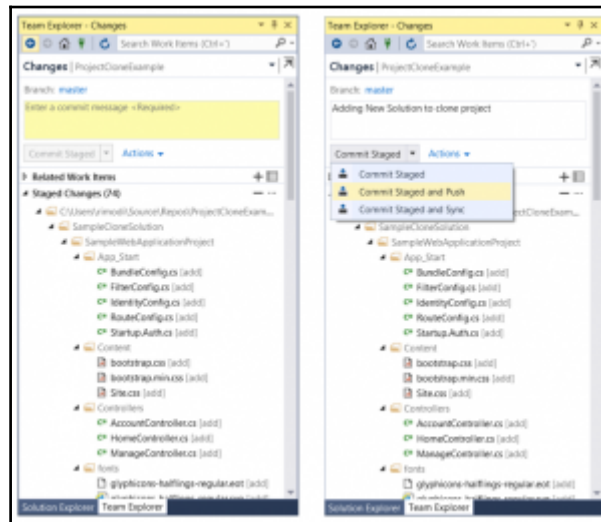
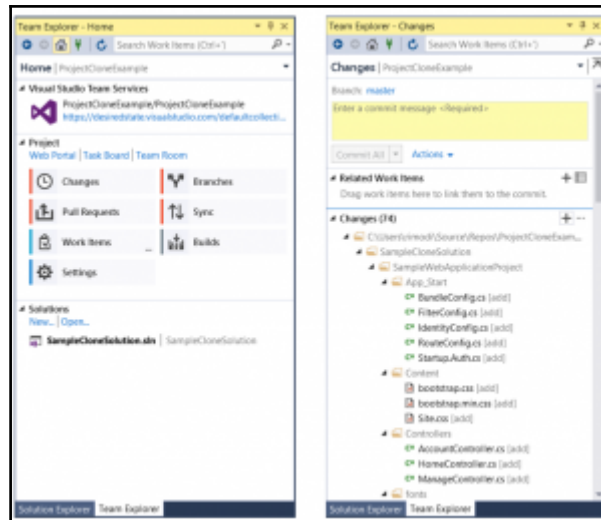
Team Project Collections:
DefaultCollection

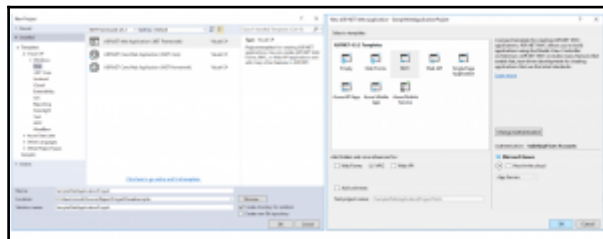
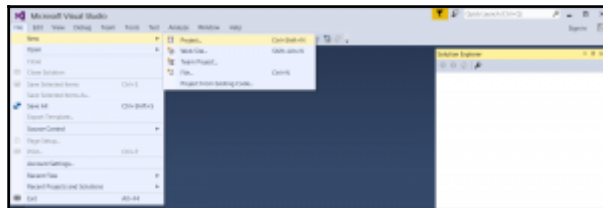
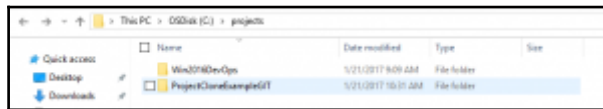
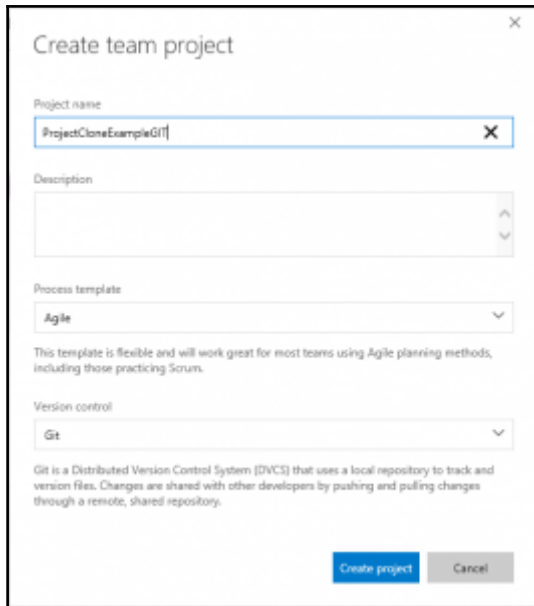
Team Projects:
 (Select All)
 book
 Devtest
 docker
 FirstGit
 FirstProject
 GitVS
 ProjectCloneExample
 SampleProjects
 SISKU001
 SRUs
 Templates
 TestASPMVC
 TESTING
 TestingGit
 TokenizedBuild
 Win2016DevOps

desiredstate@outlook.com [Switch User](#)

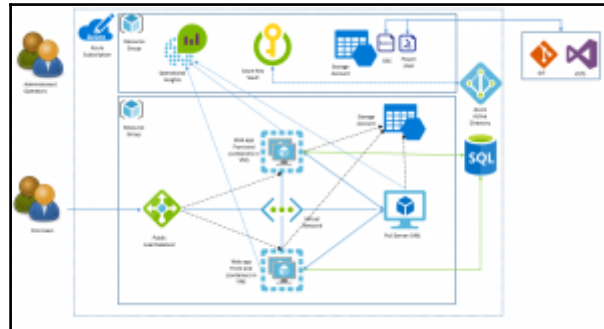
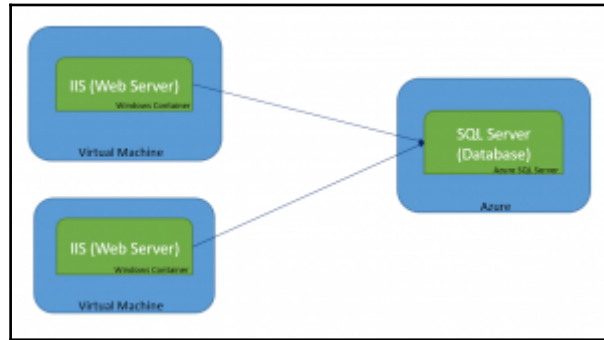
Connect Cancel







Chapter 7: Configuration Management



Build Definitions / OnlineMedicineBuild-Complete

Build Options Repository Variables Triggers General Retention History

Save Undo

+ Add build step..

- NuGet install Solution packages
NuGet Installer
- Build Project OnlinePharmacy
Visual Studio Build
- Build project OnlinePharmacy.Tests
Visual Studio Build
- Unit Test assemblies
Visual Studio Test
- Replace tokens in ***.SetParameters.xml
Replace Tokens
- Archive WebDeploy files
Archive Files
- Copy Publish Artifact to Drop folder
Copy and Publish Build Artifacts

NuGet install Solution packages

Path to solution or packages.config: ***.sln

Path to NuGet.config:

Installation type: Restore Install

Disable local cache:

NuGet arguments:

Advanced

Control Options

Enabled:

Continue on error:

Always run:

Timeout: 0

Build Project OnlinePharmacy

Solution: OnlinePharmacy/OnlinePharmacy.csproj

MSBuild Arguments: /C:/Deploy/Target=Package /P:PackageLocation="" /Deployment:PublishProfile=Release

Platform:

Configuration:

Clean:

Visual Studio Version: Visual Studio 2015

Advanced

Control Options

Enabled:

Continue on error:

Always run:

Timeout: 0

Build project OnlinePharmacy.Tests

Solution: OnlinePharmacy.Tests/OnlinePharmacy.Tests.csproj

MSBuild Arguments:

Platform:

Configuration:

Clean:

Visual Studio Version: Visual Studio 2015

Advanced

Control Options

Enabled:

Continue on error:

Always run:

Timeout: 0

Unit Test assemblies

Execution Options

Test Assembly: ***tests*.dll;-!(obj)*

Test Filter criteria:

Run Settings File:

Override TestRun Parameters:

Code Coverage Enabled:

Run In Parallel:

Advanced Execution Options

Reporting Options

Control Options

Enabled:

Continue on error:

Always run:

Timeout: 0

Replace tokens in `*.SetParameters.xml`**

Root directory: OnlinePharmacy\Deployment

Target files: `***.SetParameters.xml`

Output file encoding: auto

Write unicode BOM:

Missing variables

Advanced

Token prefix: *

Token suffix: *

Control Options

Enabled:

Continue on error:

Always run:

Timeout: 0

Archive WebDeploy files

Root folder (or file) to archive: `$(BUILD.SOURCEDIRECTORY)\OnlinePharmacy\Deployment\`

Prefix root folder name to archive paths:

Archive

Archive type: zip

Archive file to create: `$(Build.ArtifactStagingDirectory)\Deployment.zip`

Replace existing archive:

Control Options

Enabled:

Continue on error:

Always run:

Timeout: 0

Copy Publish Artifact to Drop folder

Copy Root:

Contents: `***`

Artifact Name: Drop

Artifact Type: Server

Control Options

Enabled:

Continue on error:

Always run:

Timeout: 0

Build Definitions / OnlineMedicine

Build Options Repository Variables Triggers **General** Retention History

Save Undo

Default agent queue: **Hazel**

Build job authorization scope: **Project Collection**

Description: **OnlineMedicine sample application build pipeline**

Build number format: **\$[TeamProject]_\$(BuildDefinitionName)_\$(SourceBranchName)_\$(Date:yyyyMMdd)\$(Rev:.r)**

Build job timeout in minutes: **80**

Badge enabled: [Show off...](#)

Demands

Name	Type	Value
+ Add demand		

Build Definitions / OnlineMedicine

Build Options Repository Variables Triggers General **Retention** History

Save Undo

The retention rules are evaluated in order, with the first rule that matches a build applied. The maximum rule at the bottom matches all builds.

[+ Add new rule...](#)

<ul style="list-style-type: none"> Days to keep: 10 Minimum to keep: 1 	<ul style="list-style-type: none"> Delete build record: true Delete source label: false Delete file share: true Delete symbolic: true Delete test results: true 	Branch filters: All
<ul style="list-style-type: none"> Days to keep: 30 Minimum to keep: 10 	<ul style="list-style-type: none"> Delete build record: true Delete source label: false Delete file share: true Delete symbolic: true Delete test results: true 	Branch filters: All

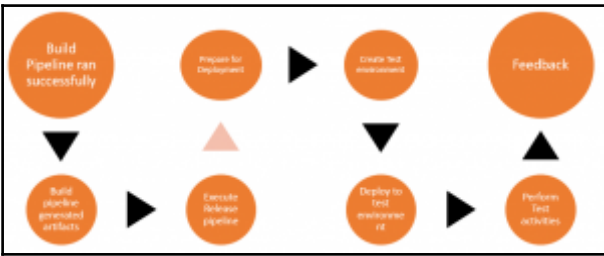
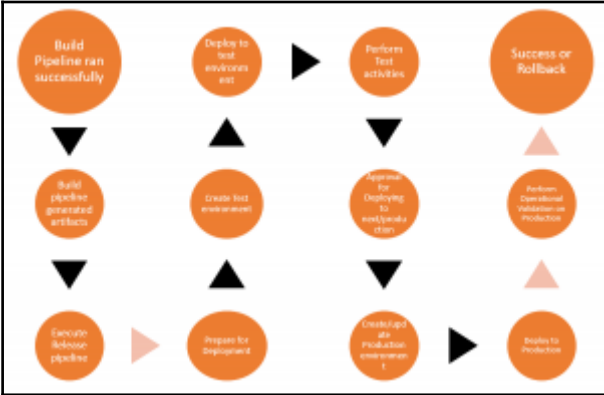
Build Definitions / OnlineMedicine

Build Options Repository Variables Triggers General Retention **History**

Save Undo Diff Revert

Changed By	Changed Date	Change Type	Comment
desiredstate	11/20/2016 3:49:50 PM	Update	
desiredstate	11/20/2016 3:39:40 PM	Update	

Chapter 10: Continuous Delivery and Deployment

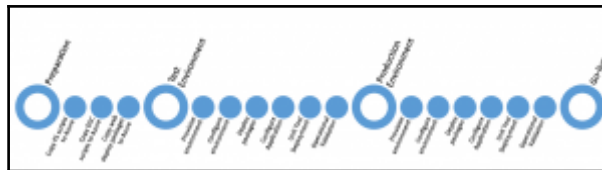


Scheduled
 Create a new release at a specified time.

+ Add new time

24h time: 03 : 00 (UTC) Coordinated Universal Time

Su M Tu W Th F Sa



Variables

Define custom variables to use in this release definition. View list of [pre-defined variables](#)

Name	Value
<input type="checkbox"/> StorageAccountName	win2016devops
<input type="checkbox"/> ContainerName	arnt
<input type="checkbox"/> resourceGroupName	win2016devops
<input type="checkbox"/> StorageSAS	*****

[+ Add variable](#)

Definition: OnlineMedicineRelease-Complete [Releases](#)

Environments **Artifacts** Variables Triggers General Retention History

Save | Release | Link an artifact source

Link an artifact source X

Type:

Project:


Source (Build definition):


Source alias

The artifacts published by each version will be available for deployment in Release Management. The last successful version of **OnlineMedicineBuild-Complete** published the following artifacts: **Drop**, **build.SourceLabel**.



Environment triggers


Environment triggers specify when and how a deployment will be triggered on an environment.


Environment	Trigger
Preparation	Automated: After release creation 
test environment	Automated: After successful deployment on 'Preparation' 
Prod environment	Automated: After successful deployment on 'test environment' 

Definition: OnlineMedicineRelease-Complete  | [Releases](#)




Environments Artifacts Variables Triggers **General** Retention History

 |  Save |  Release ▾

Release name format 


Definition: OnlineMedicineRelease-Complete  | [Releases](#)

Environments Artifacts Variables Triggers General **Retention** History





 |  Save |  Release ▾

Define retention policy for releases deployed to each environment in this release definition. Learn more about [retention policy](#).

Environment: Preparation	Days to retain a release: <input data-bbox="822 934 866 952" type="text" value="30"/>	Minimum releases to keep: <input data-bbox="822 961 866 979" type="text" value="3"/>	Retain build: <input checked="" data-bbox="960 943 982 961" type="checkbox"/>
Environment: test environment	Days to retain a release: <input data-bbox="822 996 866 1014" type="text" value="30"/>	Minimum releases to keep: <input data-bbox="822 1023 866 1040" type="text" value="3"/>	Retain build: <input checked="" data-bbox="960 1005 982 1023" type="checkbox"/>
Environment: Prod environment	Days to retain a release: <input data-bbox="822 1058 866 1076" type="text" value="30"/>	Minimum releases to keep: <input data-bbox="822 1084 866 1102" type="text" value="3"/>	Retain build: <input checked="" data-bbox="960 1067 982 1084" type="checkbox"/>

Definition: OnlineMedicineRelease-Complete  | [Releases](#)

Environments Artifacts Variables Triggers General Retention **History**

 |  Save |  Release ▾  Diff

Changed By	Changed Date	Change Type	Comment
desiredstate	12/10/2016 4:32 AM	Update	
desiredstate	12/3/2016 6:32 AM	Update	

Definition: OnlineMedicineRelease-Complete [Releases](#)

Environments Artifacts Variables Triggers General Retention History

🔄 Save + Release

+ Add environment

Preparation ...
2 / 2 tasks enabled
0 🔄 📄
test environment ...
5 / 5 tasks enabled
0 🔄 📄
Prod environment ...
5 / 5 tasks enabled
0 🔄 📄

Definition: OnlineMedicineRelease-Complete [Releases](#)

Environments Artifacts Variables Triggers General Retention History

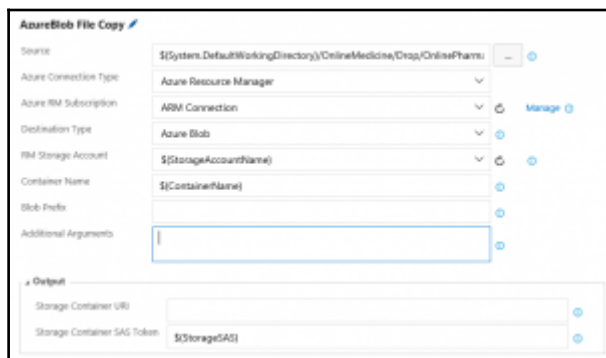
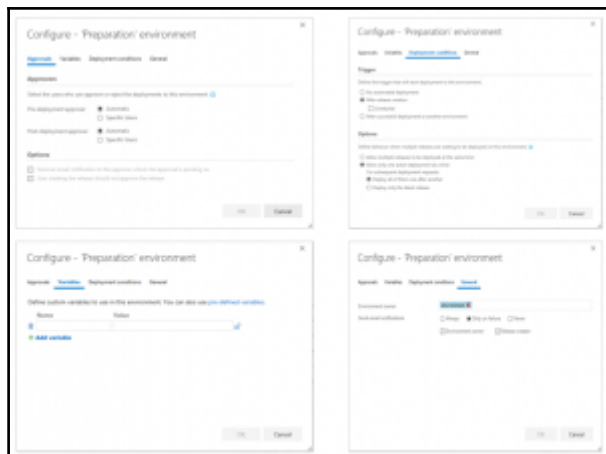
🔄 Save + Release

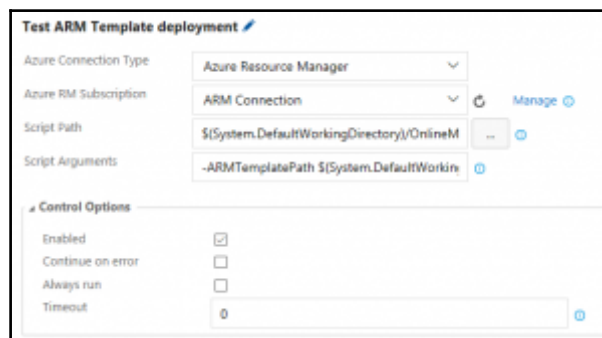
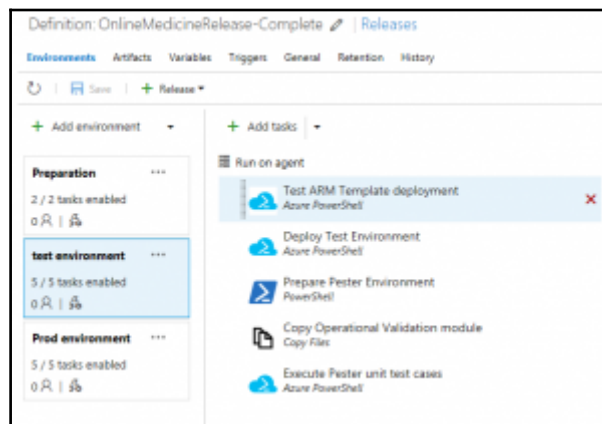
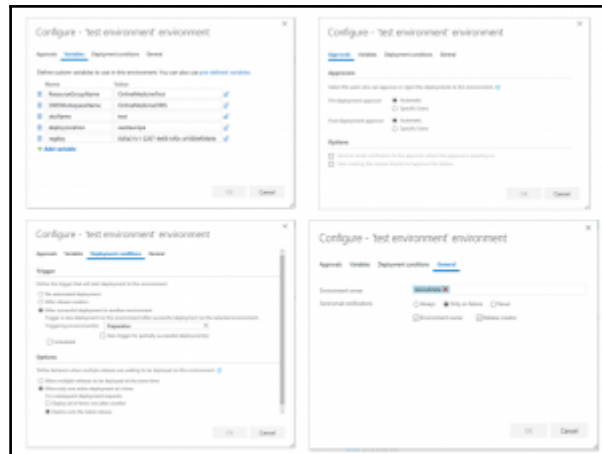
+ Add environment

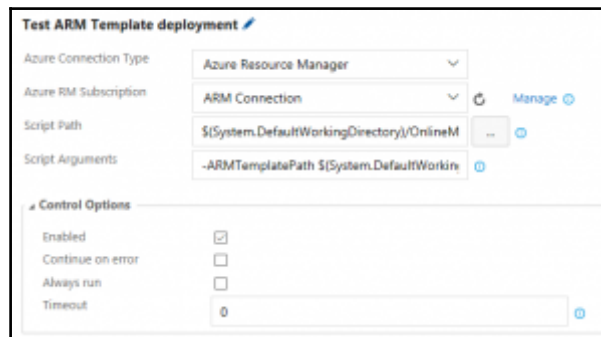
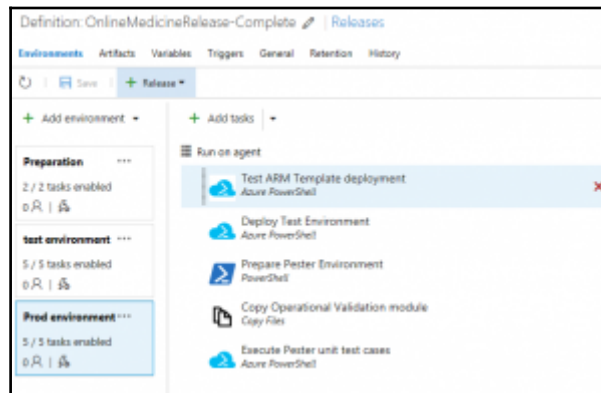
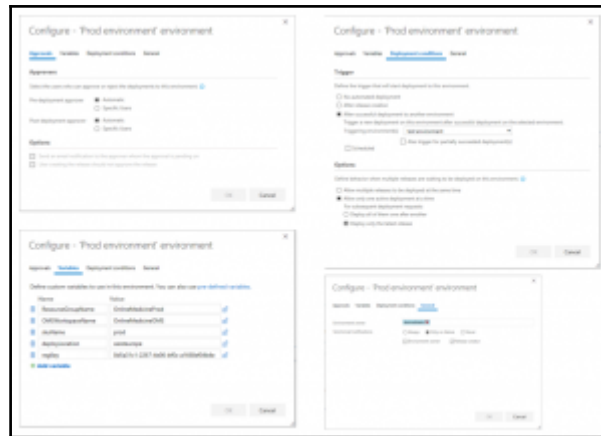
+ Add tasks

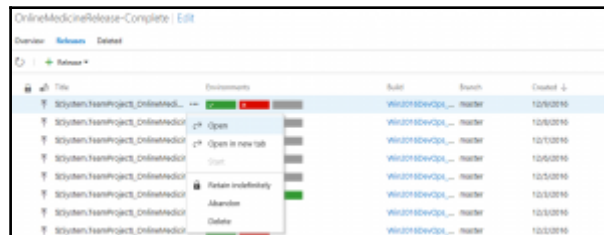
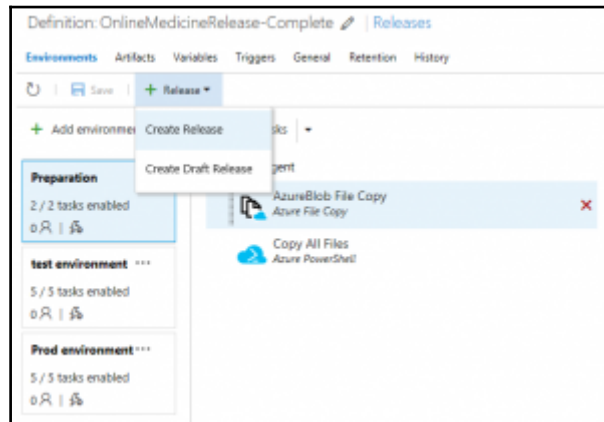
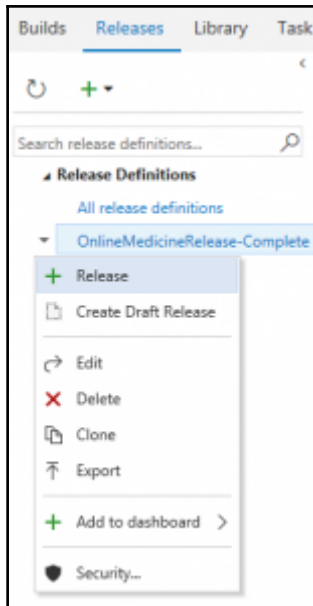
Run on agent

Preparation ...	AzureBlob File Copy Azure File Copy
2 / 2 tasks enabled	✖
0 🔄 📄	
test environment ...	Copy All Files Azure PowerShell
5 / 5 tasks enabled	
0 🔄 📄	
Prod environment ...	
5 / 5 tasks enabled	
0 🔄 📄	









Chapter 11: Monitoring and Measuring

