

# DevOps for Web Developers

Mitesh Soni

Video 7.4

## Deploying an Application in Microsoft Azure



In this Video, we are going to take a look at...

- Configuring the Azure web app for Java web application hosting

Manage Jenkins [Jenkins] - Mozilla Firefox

Chef Manage x

tomcatserver1 - Micr... x

/manager x

Connecting... x

Elastic Beanstalk Man... x

+

localhost:9999/manage

Search

☆

📄

🛡️

⬇️

🏠

☰

Jenkins

Manage Jenkins

My Views

Credentials

Build Queue

No builds in the queue.

Build Executor Status

master

1 Idle

2 Idle

TestServer

1 Idle

📁

[Configure Global Security](#)

Secure Jenkins; define who is allowed to access/use the system.

🔑

[Configure Credentials](#)

Configure the credential providers and types

🔧

[Global Tool Configuration](#)

Configure tools, their locations and automatic installers.

🔄

[Reload Configuration from Disk](#)

Discard all the loaded data in memory and reload everything from file system. Useful when you modified config files directly on disk.

🧩

[Manage Plugins](#)

Add, remove, disable or enable plugins that can extend the functionality of Jenkins. **(updates available)**

💻

[System Information](#)

Displays various environmental information to assist trouble-shooting.

📋

[System Log](#)

System log captures output from java.util.logging output related to Jenkins.

📊

[Load Statistics](#)

Check your resource utilization and see if you need more computers for your builds.

📝

[Jenkins CLI](#)

Access/manage Jenkins from your shell, or from your script.

📝

[Script Console](#)

Executes arbitrary script for administration/trouble-shooting/diagnostics.

💻

[Manage Nodes](#)

Add, remove, control and monitor the various nodes that Jenkins runs jobs on.

?

[About Jenkins](#)

localhost:9999/pluginManager

user@localhost:~

Manage Jenkins [Jenkins] - Mozilla...




user@localhost:~/apache-tomcat...

[SimpleScreenRecorder]

1 / 4



Updates	Available	Installed	Advanced
Install ↓			
Name			Version
<input type="checkbox"/>	<a href="#">Publish Over CIFS</a>		0.3
Send build artifacts to a windows share (CIFS/SMB/samba)			
<input type="checkbox"/>	<a href="#">Publish Over Dropbox</a>		1.1.2
Allows users to directly publishes artifacts to their <a href="#">Dropbox</a> folders without the need to run a sync client on their build servers.			
<input checked="" type="checkbox"/>	<a href="#">Publish Over FTP</a>		1.12
Publish files over FTP			
<input type="checkbox"/>	<a href="#">Publish Over SSH</a>		1.14
Publish files and/or execute commands over SSH (SCP using SFTP)			
Install without restart Download now and install after restart			
Update information obtained: 23 hr ago Check now			



-  [Back to Dashboard](#)
-  [Manage Jenkins](#)
-  [Manage Plugins](#)

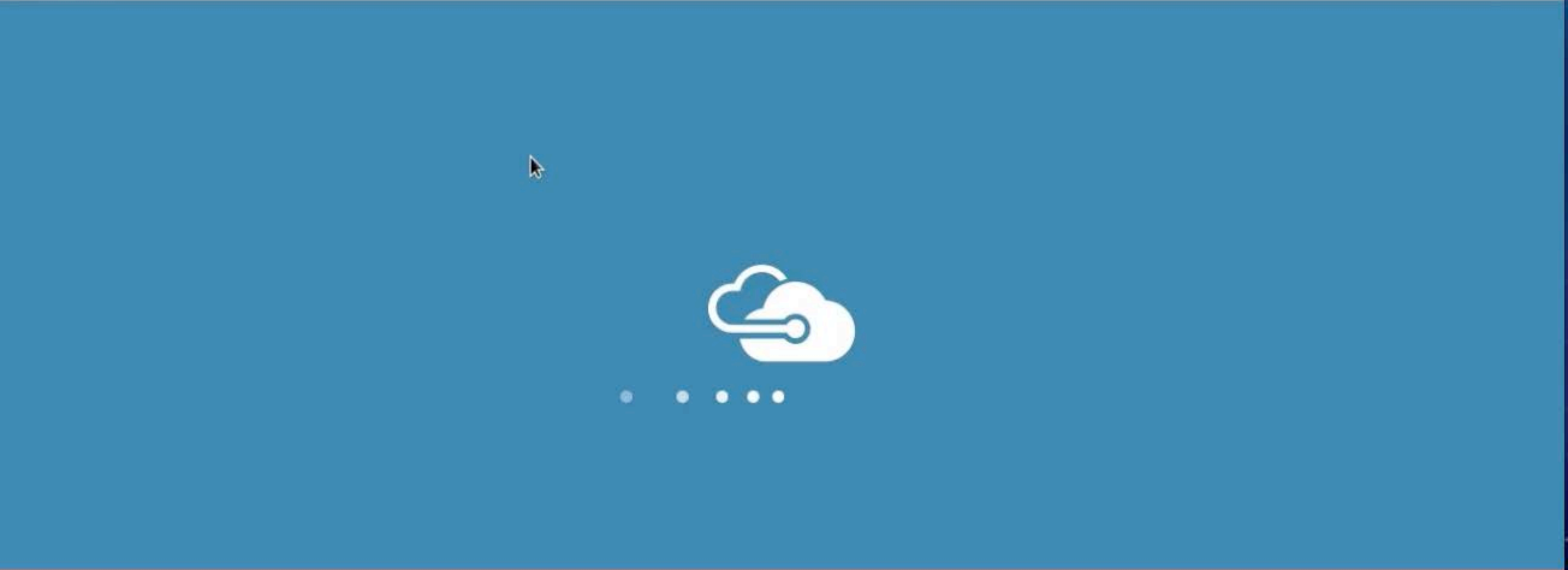
## Installing Plugins/Upgrades

### Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

Publish Over FTP  Success

-  [Go back to the top page](#)  
(you can start using the installed plugins right away)
-  ☐ Restart Jenkins when installation is complete and no jobs are running



https://portal.azure.com.



- +
- New
- All resources
- Resource groups
- App Services
- SQL databases
- SQL data warehouses
- NoSQL (DocumentDB)
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks

Dashboard ▾ + New dashboard Edit dashboard Share Fullscreen Clone

All resources ALL SUBSCRIPTIONS

tomcatserver1	Virtual machine (classic)
classicstorage11	Storage account
azeb87ff0ffa9atjafemtmz	Storage account (classic)
packt-tomcatserver	Cloud service (classic)

Get started

- Virtual Machines  
Provision Windows and Linux virtual machines in minutes
- App Service  
Create web and mobile apps for any platform and device
- SQL Database  
Managed relational database-as-a-service
- Storage  
Durable, highly available and massively scalable storage

videotestingll CLOUDSERVICE

Deleted

packt-tomcatserver CLOUDSERVICE

₹12,014.05 credit remaining 15:23  
Subscription 'Free Trial' has a remaining credit of ₹12,014.05

Microsoft Azure App Services >

🔍 🔔 ⚙️ 😊 ?

videotesting@outlook...  
VIDEOTESTINGOUTLOOK (DE...

App Services

videotestingoutlook (Default Directory)

+ Add 📄 Columns ↻ Refresh

Subscriptions: Free Trial

Filter by name...

0 items

NAME ▾

No App Services to display



Web + Mobile - Microsoft Azure - Mozilla Firefox

Chef Manage x Web + Mobile - Micro... x /manager x Update Center [Jenki... x Elastic Beanstalk Man... x +

https://portal.azure.com/#blade/Microsoft\_Azure\_Marketplace/GalleryFeaturedMenuItemBlade/select Search

Microsoft Azure App Services > Web + Mobile







Web + Mobile

Filter

Search Web + Mobile

Create

Web Apps More

					
Web App	Web App + SQL	App Service Environment	WordPress	Umbraco CMS	DNN Platform
Microsoft	Microsoft	Microsoft	WordPress	umbraco.com	DNN Corp

Rewind 15s

0:56 / 5:18

Chef Manage

Web App - Microsoft ...

/manager

Update Center [Jenki...

Elastic Beanstalk Man...

<https://portal.azure.com/#create/Microsoft.WebSite>

Search



Microsoft Azure App Services &gt; Web + Mobile &gt; Web App &gt; Web App

videotesting@outlook...  
VIDEOTESTINGOUTLOOK (DE...

Web App

DevOpsPetClinic

.azurewebsites.net

\* Subscription

Free Trial

\* Resource Group ⓘ

☒ Create new ☐ Use existing

DevOps

\* App Service plan/Location

ServicePlan466fb3fe-ae9a[South ...

Application Insights ⓘ

On

Off

☐ Pin to dashboard

Create

Automation options

**Microsoft Azure** App Services [Icons] videotesting@outlook... VIDEOTESTINGOUTLOOK (DE... [Profile]

App Services videotestingoutlook (Default Directory) + Add Columns Refresh

Subscriptions: Free Trial

Filter by name...

0 items

NAME ▾	STATUS	APP TYPE	APP SERVICE PLAN	LOCATION ▾	SUBSCRIPTION ▾
No App Services to display					



Microsoft Azure App Services


videotestingoutlook (Default Directory)

+ Add Columns Refresh

Subscriptions: Free Trial

Filter by name...

1 items

NAME ▾	STATUS	APP TYPE	APP SERVICE PLAN	LOCATION ▾	SUBSCRIPTION ▾	
 DevOpsP... Clinic	Running	Web app	ServicePlan466fb3fe-ae9a	South Central US	Free Trial	...

Microsoft Azure App Services > DevOpsPetClinic >

App Services videotestingoutlook (Default Directory)

+ Add Columns Refresh

Subscriptions: Free Trial

Filter by name...

1 items

NAME ▾

DevOpsPetClinic ...

DevOpsPetClinic App Service

Search (Ctrl+ /)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

APP DEPLOYMENT

Quickstart

Deployment credentials

Deployment slots

Browse Start/Stop Swap Restart Delete More

Essentials ^

Resource group DevOps

Status Running

Location ---

Subscription name ---

Subscription ID 22e54e87-21de-4460-930c-8d1e9b10769f

URL <http://devopspetclinic.azurewebsites.net>

App Service plan/pricing tier ServicePlan466fb3fe-ae9a

Monitoring



Microsoft Azure App Services > DevOpsPetClinic

App Services videotestingoutlook (Default Directory)

+ Add Columns Refresh

Subscriptions: Free Trial

Filter by name...

1 items

NAME ▾

DevOpsPetClinic

DevOpsPetClinic App Service

Search (Ctrl+ /)

- Authentication / Authorization
- Backups
- Custom domains
- SSL certificates
- Networking
- Scale up (App Service plan)
- Scale out (App Service plan)
- Security scanning
- WebJobs

Browse Stop Swap Restart Delete More

Subscription ID 22e54e87-21de-4460-930c-8d1e9b10769f

FTPS hostname https://waws-prod-sn1-075.ftp.azurewebsit...

Monitoring

Requests and errors

Edit



Microsoft Azure App Services > DevOpsPetClinic - Application settings

videotestingoutlook (Default Directory)

+ Add Columns Refresh

Subscriptions: Free Trial

Filter by name...

1 items

NAME ▾

DevOpsPetClinic ...

DevOpsPetClinic - Application settings

App Service

Browse Stop Swap Restart Delete More

Subscription ID: 22e54e87-21de-4460-930c-8d1e9b10769f

HTTPS hostname: https://waws-prod-sn1-075.ftp.azurewebsites.net

Search (Ctrl+ /)

Deployment options

Continuous Delivery (Preview)

SETTINGS

- Application settings
- Authentication / Authorization
- Backups
- Custom domains
- SSL certificates
- Networking

Monitoring

Requests and errors

100

80

60

40

20

0

14:30 14:45 15 15:15

HTTP SERVER ERRORS REQUESTS

No available data.

Edit

Application settings - Microsoft Azure - Mozilla Firefox

Chef Manage x Application settings - ... x /manager x Update Center [Jenki... x Elastic Beanstalk Man... x +

https://portal.azure.com/#resource/subscriptions/22e54e87-21de-4460-930c-8d1e9b10769f/resol Search

Microsoft Azure App Services > DevOpsPetClinic - Application settings

videotestingoutlook (Default Directory)

+ Add Columns Refresh

Subscriptions: Free Trial

Filter by name...

1 items

NAME

DevOpsPetClinic

DevOpsPetClinic - Application settings

App Service

Save Discard

Search (Ctrl+ /)

Deployment options

Continuous Delivery (Preview)

SETTINGS

Application settings

Authentication / Authorization

Backups

Custom domains

SSL certificates

Networking

Java version Java 8

Java Minor version Newest

Web container Newest Tomcat 8.5

Tomcat 7.0.50

Tomcat 7.0.62

Newest Tomcat 7.0

Tomcat 8.0.23

Newest Tomcat 8.0

Tomcat 8.5.6

Newest Tomcat 8.5

Jetty 9.1.0.v20131115

Newest Jetty 9.1

Jetty 9.3.13.v20161014

Newest Jetty 9.3

Python version

Platform

Web sockets

Always On

Managed Pipeline Version Integrated Classic

You can improve the performance of your state-less applications by turning off the Affinity Cookie, state-full applications should keep the Affinity Cookie turned on for increased compatibility. Click to learn more.



Application settings - Microsoft Azure - Mozilla Firefox

Chef Manage x Application settings - ... x /manager x Update Center [Jenki... x Elastic Beanstalk Man... x +

https://portal.azure.com/#resource/subscriptions/22e54e87-21de-4460-930c-8d1e9b10769f/resol Search

Microsoft Azure App Services > DevOpsPetClinic - Application settings

App Services videotestingoutlook (Default Directory)

+ Add Columns Refresh

Subscriptions: Free Trial

Filter by name...

1 items

NAME

DevOpsPetClinic

DevOpsPetClinic - Application settings

App Service

Save Discard

ARR Affinity Off On

Auto swap destinations cannot be configured from production slot

Auto Swap On

Auto Swap Slot

Debugging

Remote debugging Off On

Remote Visual Studio version 2013 2015

App settings

WEBSITE\_NODE\_DEFAULT\_V... 6.9.1 Slot setting

Key Value Slot setting



DevOpsPetClinic - Microsoft Azure - Mozilla Firefox

Chef Manage x DevOpsPetClinic - Mi... x /manager x Update Center [Jenki... x Elastic Beanstalk Man... x +

https://portal.azure.com/#resource/subscriptions/22e54e87-21de-4460-930c-8d1e9b10769f/resol Search

Microsoft Azure App Services > DevOpsPetClinic

videotestingoutlook (Default Directory)

+ Add Columns Refresh

Subscriptions: Free Trial

Filter by name...

1 items

NAME

DevOpsPetClinic

DevOpsPetClinic App Service

Search (Ctrl+ /)

Overview

Activity log

Access control (IAM)

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Diagnose and solve problems

APP DEPLOYMENT

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Deployment slots

Essentials

Resource group DevOps

Status Running

Location South Central US

Subscription name Free Trial

Subscription ID 22e54e87-21de-4460-930c-8d1e9b10769f

URL <http://devopspetclinic.azurewebsites.net>

App Service plan/pricing tier ServicePlan466fb3fe-ae9a (Standard: 1 Sm...

FTP/deployment username No FTP/deployment user set

FTP hostname ftp://waws-prod-sn1-075.ftp.azurewebsite...

FTPS hostname ftps://waws-prod-sn1-075.ftp.azurewebsit...

Monitoring

Requests and errors

14

12

10

8

Edit

devopsnetclinic.azurewebsites.net

# This Java based web application has been successfully created

There's nothing here yet, but Microsoft Azure makes it simple to publish content with GIT and FTP



# application has been successfully created

There's nothing here yet, but  
Microsoft Azure makes it simple to  
publish content with GIT and FTP

Tell me more →

Java Property	Value
java.version	1.8.0_102
java.vendor	Azul Systems, Inc.
os.arch	amd64
catalina.base	D:\Program Files (x86)\apache-tomcat-8.0.23
user.timezone	GMT



## Enter an item name

» A job already exists with the name 'PetClinic-Deploy'

**Freestyle project**

This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

**Maven project**

Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

**Pipeline**

Orchestrates long-running activities that can span multiple build slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

**External Job**

This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system.

**Multi-configuration project**

Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

## New Item [Jenkins] - Mozilla Firefox

Chef Manage x DevOpsPet... x Microsoft Azure... x IAM Manage... x EC2 Manage... x /manager x Connecting... x PetClinic :: a... x

localhost:9999/view/All/newJob Search

Jenkins &gt; All

 Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.**Folder**

Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

**GitHub Organization**

Scans a GitHub organization (or user account) for all repositories matching some defined markers.

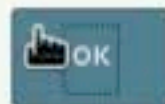
**Multibranch Pipeline**

Creates a set of Pipeline projects according to detected branches in one SCM repository.

if you want to create a new item from other existing, you can use this option:



Copy from





## All resources

videotestingoutlook (Default Directory)

+ Add Columns Refresh

## Subscriptions: Free Trial

Filter by name...

6 items

NAME

azeb87ff0ffa9atjafemtma...

classicstorage11

DevOpsPetClinic

packt-tomcatserver

ServicePlan466fb3fe-ae9a

tomcatserver1

DevOpsPetClinic  
App Service

Browse Stop Swap Restart Delete More

Search (Ctrl+I)

Tags

Diagnose and solve problems

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Continuous Delivery (Preview)

## Essentials

Resource group

DevOps

Status

Running

Location

South Central US

Subscription name

Free Trial

Subscription ID

22e54e87-21de-4460-930c-8d1e9b10769f

URL

<http://devopspetclinic.azurewebsites.net>

App Service plan/pricing tier

ServicePlan466fb3fe-ae9a (Standard: 1 Sm...

FTP/deployment username

No FTP/deployment user set

FTP hostname

ftp://waws-prod-sn1-075.ftp.azurewebsite...

FTPS hostname

https://waws-prod-sn1-075.ftp.azurewebsit...

## Requests and errors

4

3

Edit



## Set deployment credentials - Microsoft Azure - Mozilla Firefox

Chef Manage x Set deploy... x Microsoft Azure... x IAM Manage... x EC2 Manage... x /manager x PetClinic-D... x PetClinic :: a... x

<https://portal.azure.com/#resource/subscriptions/22e54e87-21de-4460-930c-8d1e9b10769f/resol> Search

Microsoft Azure All resources &gt; DevOpsPetClinic - Deployment credentials

videotesting@outlook...  
VIDEOTESTINGOUTLOOK (DE... 17:54

All resources

videotestingoutlook (Default Directory)

+ Add Columns Refresh

Subscriptions: Free Trial

Filter by name...

6 items

NAME

azeb87ff0ffa9atjafemtma...

classicstorage11

DevOpsPetClinic

packt-tomcatserver

ServicePlan466fb3fe-ae9a

tomcatserver1

DevOpsPetClinic - Deployment credentials

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Save Discard

Search (Ctrl+I)

Tags

Diagnose and solve problems

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New name and password

Git and FTP can't authenticate using the account you're signed in with, so create a new user name and password to use with those technologies

Use this user name and password to deploy to any apps for all subscriptions associated with your Microsoft Azure account

\* FTP/deployment username ⓘ

packt ✓

\* Password ⓘ

..... ✓

\* Confirm password

..... ✓

Resetting deployment credentials...

17:54

[Back to Dashboard](#)[Status](#)[Changes](#)[Workspace](#)[Build Now](#)[Delete Project](#)[Configure](#)[GitHub Hook Log](#)[Move](#)

## Project PetClinic-Deploy-Azure

[add description](#)[Disable Project](#)[Workspace](#)[Recent Changes](#)

### Permalinks

#### Build History

[trend](#)

find

x

[RSS for all](#) [RSS for failures](#)



- New Item
- People
- Build History
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- My Views
- Credentials

## Build Queue

No builds in the queue.

## Build Executor Status

### master

1 Idle

2 Idle

### TestServer

Read localhost

All PetClinic-First Petclinic-Build-Pipeline-View +						
S	W	Name	Last Success	Last Failure	Last Duration	
		<a href="#">Petclinic</a>	18 days - #12	N/A	1 min 41 sec	
		<a href="#">Petclinic-Code</a>	16 days - #7	16 days - #5	5 min 18 sec	
		<a href="#">Petclinic-Compile</a>	14 days - #5	16 days - #1	1 min 29 sec	
		<a href="#">PetClinic-Deploy</a>	1 hr 13 min - #22	22 hr - #21	2 min 48 sec	
		<a href="#">PetClinic-Deploy-Azure</a>	N/A	N/A	N/A	
		<a href="#">Petclinic-Pipeline</a>	16 days - #16	16 days - #15	5 min 28 sec	
		<a href="#">Petclinic-Pipeline-Build</a>	16 days - #1	N/A	3 min 30 sec	
		<a href="#">Petclinic-Test</a>	36 min - #37	1 hr 9 min - #35	1 min 32 sec	

Icon: [S](#) [M](#) [L](#)

Legend [RSS for all](#) [RSS for failures](#) [RSS for just latest builds](#)



## Configure System [Jenkins] - Mozilla Firefox

Applications Places Firefox Web Browser

Chef Manage x Set deploy... x Microsoft Azure... x IAM Manage... x EC2 Manage... x /manager x Configure S... x PetClinic :: a... x

localhost:9999/configure Search

Jenkins configuration

☐ Require Administrator for Template Testing

☐ Enable watching for jobs

Content Token Reference

**E-mail Notification**

SMTP server smtp.gmail.com

Default user e-mail suffix

☐ Test configuration by sending test e-mail

**Publish over FTP**

FTP Servers Add

Default Triggers...

Advanced...

Advanced...

Save Apply

## Configure System [Jenkins] - Mozilla Firefox

Application... x | Set deploy... x | Microsoft Azure... x | IAM Manage... x | EC2 Manage... x | /manager x | Configure S... x | PetClinic :: a... x

localhost:9999/configure

Jenkins > configuration

☐ Require Administrator for Template Testing

☐ Enable watching for jobs

Content Token Reference

**E-mail Notification**

SMTP server: smtp.gmail.com

Default user e-mail suffix

☐ Test configuration by sending test e-mail

**Publish over FTP**

FTP Servers

FTP Server

Name:  Required. Cannot contain < & \* \* \

Hostname:  Required

Username:

Default Triggers...

Advanced...

Save Apply



## All resources

videotestingoutlook (Default Directory)

+ Add Columns Refresh

## Subscriptions: Free Trial

Filter by name...

6 items

NAME

	azeb87ff0ffa9atjafemtma	...
	classicstorage11	...
	DevOpsPetClinic	...
	packt-tomcatserver	...
	ServicePlan466fb3fe-ae9a	...
	tomcatserver1	...

DevOpsPetClinic  
App Service

Browse Stop Swap Restart Delete ... More

Search (Ctrl+I)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

## APP DEPLOYMENT

- Quickstart
- Deployment credentials
- Deployment slots

## Essentials ^

Resource group	URL
DevOps	<a href="http://devopspetclinic.azurewebsites.net">http://devopspetclinic.azurewebsites.net</a>
Status	App Service plan/pricing tier
Running	ServicePlan466fb3fe-ae9a (Standard: 1 Sm...
Location	FTP/deployment username
South Central US	DevOpsPetClinic\packt
Subscription name	FTP hostname
Free Trial	ftp://waws-prod-sn1-075.ftp.azurewebsites.net
Subscription ID	FTPS hostname
22e54e87-21de-4460-930c-8d1e9b10769f	https://waws-prod-sn1-075.ftp.azurewebsites.net

## Monitoring

## Requests and errors





## Configure System [Jenkins] - Mozilla Firefox

Chef Manage x DevOpsPet... x Microsoft Azure... x IAM Manage... x EC2 Manage... x /manager x Configure S... x PetClinic :: a... x

localhost:9999/configure

Search



Jenkins &gt; configuration

## E-mail Notification

SMTP server

smtp.gmail.com

Default user e-mail suffix

Advanced...

☐ Test configuration by sending test e-mail

## Publish over FTP

FTP Servers

FTP Server

Name

AzureWebApps

Hostname

ftp://waws-prod-sn1-075.ftp.azurewebsites.windows.net

Required

Username

Password

Remote Directory

Advanced...

Save

Apply

[Back to Dashboard](#)[Status](#)[Changes](#)[Workspace](#)[Build Now](#)[Delete Project](#)[Configure](#)[GitHub Hook Log](#)[Move](#)

## Project PetClinic-Deploy-Azure

[add description](#)[Disable Project](#)[Workspace](#)[Recent Changes](#)

### Permalinks

**Build History**[trend](#)

find

[RSS for all](#) [RSS for failures](#)



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## Project PetClinic-Deploy-Azure

add description

Disable Project



Workspace



Recent Changes

### Permalinks

Build History

trend

find

x

RSS for all RSS for failures

## PetClinic-Deploy-Azure Config [Jenkins] - Mozilla Firefox

Application... x DevOpsPet... x Microsoft Azure... x IAM Manage... x EC2 Manage... x /manager x PetClinic-D... x PetClinic :: a... x

localhost:9999/job/PetClinic-Deploy-Azure/configure Search

Jenkins > PetClinic-Deploy-Azure

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

☒ Stable build only

Artifacts to copy

Artifacts not to copy

Target directory

Parameter filters

☐ Flatten directories ☐ Optional ☒ Fingerprint Artifacts

Advanced...

Add build step

**Post-build Actions**

Add post-build action

Save Apply



[Back to Dashboard](#)[Status](#)[Changes](#)[Workspace](#)[Build Now](#)[De Build scheduled](#)[Configure](#)[GitHub Hook Log](#)[Move](#)

## Project PetClinic-Deploy-Azure

[add description](#)[Disable Project](#)[Workspace](#)[Recent Changes](#)

### Permalinks



#### Build History

[trend](#)

find

x

[RSS for all](#) [RSS for failures](#)

 Back to Project Status Changes Console Output View as plain text Edit Build Information

## Console Output

Progress: 

```
Started by user Packt Pub
Building on master in workspace /home/user/.jenkins/workspace/PetClinic-Deploy-Azure
Cloning the remote Git repository
Cloning repository git@github.com:videopacktpub/spring-petclinic
> git init /home/user/.jenkins/workspace/PetClinic-Deploy-Azure # timeout=10
Fetching upstream changes from git@github.com:videopacktpub/spring-petclinic
> git --version # timeout=10
> git fetch --tags --progress git@github.com:videopacktpub/spring-petclinic +refs/heads/*:refs/remotes/origin/*
```







## Environment

Build	59.51212.2600.0 (1c6a99d178)
Azure App Service	59.1.8598.16 (rd_websites_stable.161213-1110)
Site up time	01:02:40:43
Site folder	D:\home
Temp folder	D:\local\Temp\

## REST API (works best when using a JSON viewer extension)

- [App Settings](#)
- [Deployments](#)
- [Source control info](#)
- [Files](#)
- [Processes and mini-dumps](#)
- [Runtime versions](#)
- [Site Extensions: installed | feed](#)
- [Web hooks](#)
- [WebJobs: all | triggered | continuous](#)
- [Functions: list | host config](#)

## Environment

Build	59.51212.2600.0 (1c6a99d178)
Azure App Service	59.1.8598.16 (rd_websites_stable.161213-1110)
Site up time	01:02:40:43
Site folder	D:\home
Temp folder	D:\local\Temp\

## REST API (works best when using a JSON viewer extension)

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- [Runtime versions](#)
- [Site Extensions: installed | feed](#)
- [Web hooks](#)
- [WebJobs: all | triggered | continuous](#)
- [Functions: list | host config](#)



/ + | 0 items |



Name	Modified	Size
------	----------	------



Use old console

```
Kudu Remote Execution Console
Type 'exit' then hit 'enter' to get a new powershell process.
Type 'cls' to clear the console
```

... / site + | 3 items



	Name	Modified	Size
 	 LogFiles	16/12/2016, 6:10:09 PM	
 	 	15/12/2016, 3:30:17 PM	



Use old console

```
Kudu Remote Execution Console
Type 'exit' then hit 'enter' to get a new powershell process.
Type 'cls' to clear the console
```



... / wwwroot + | 2 items |

	Name	Modified	Size
	 webapps	16/12/2016, 6:09:15 PM	
	 hostingstart.html	15/12/2016, 3:27:13 PM	198 KB



Use old console

```
Kudu Remote Execution Console
Type 'exit' then hit 'enter' to get a new powershell process.
Type 'cls' to clear the console

PS D:\home>
```

... / webapps + | 3 items |

	Name	Modified	Size
 	 petclinic	16/12/2016, 6:09:16 PM	
 	 ROOT	15/12/2016, 3:30:03 PM	
  	 petclinic.war	16/12/2016, 6:09:14 PM	33634 KB



Use old console

```
Kudu Remote Execution Console
Type 'exit' then hit 'enter' to get a new powershell process.
Type 'cls' to clear the console
```



Would you like to improve your search experience with suggestions?  
[Learn more...](#)

No

Yes

Visit <http://devopspetclinic.azurewebsites.net/petclinic.w>

There's nothing here yet, but  
Microsoft Azure makes it simple to  
publish content with [GIT](#) and [FTP](#)

Tell me more [→](#)

Java Property	Value
java.version	1.8.0_102
java.vendor	Azul Systems, Inc.
os.arch	amd64
catalina.base	D:\Program Files (x86)\apache-tomcat-8.0.23
user.timezone	GMT

Would you like to improve your search experience with suggestions?  
[Learn more...](#)

No

Yes

Visit <http://devopspetclinic.azurewebsites.net/petclinic.war/vets>

There's nothing here yet, but  
Microsoft Azure makes it simple to  
publish content with GIT and FTP

Tell me more →

Java Property	Value
java.version	1.8.0_102
java.vendor	Azul Systems, Inc.
os.arch	amd64
catalina.base	D:\Program Files (x86)\apache-tomcat-8.0.23
user.timezone	GMT



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[Learn more...](#)

No

Yes

Visit <http://devopspetclinic.azurewebsites.net/petclinic.war/vets.html>

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java.version	1.8.0_102
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catalina.base	D:\Program Files (x86)\apache-tomcat-8.0.23
user.timezone	GMT



HOME

FIND OWNERS

VETERINARIANS

ERROR

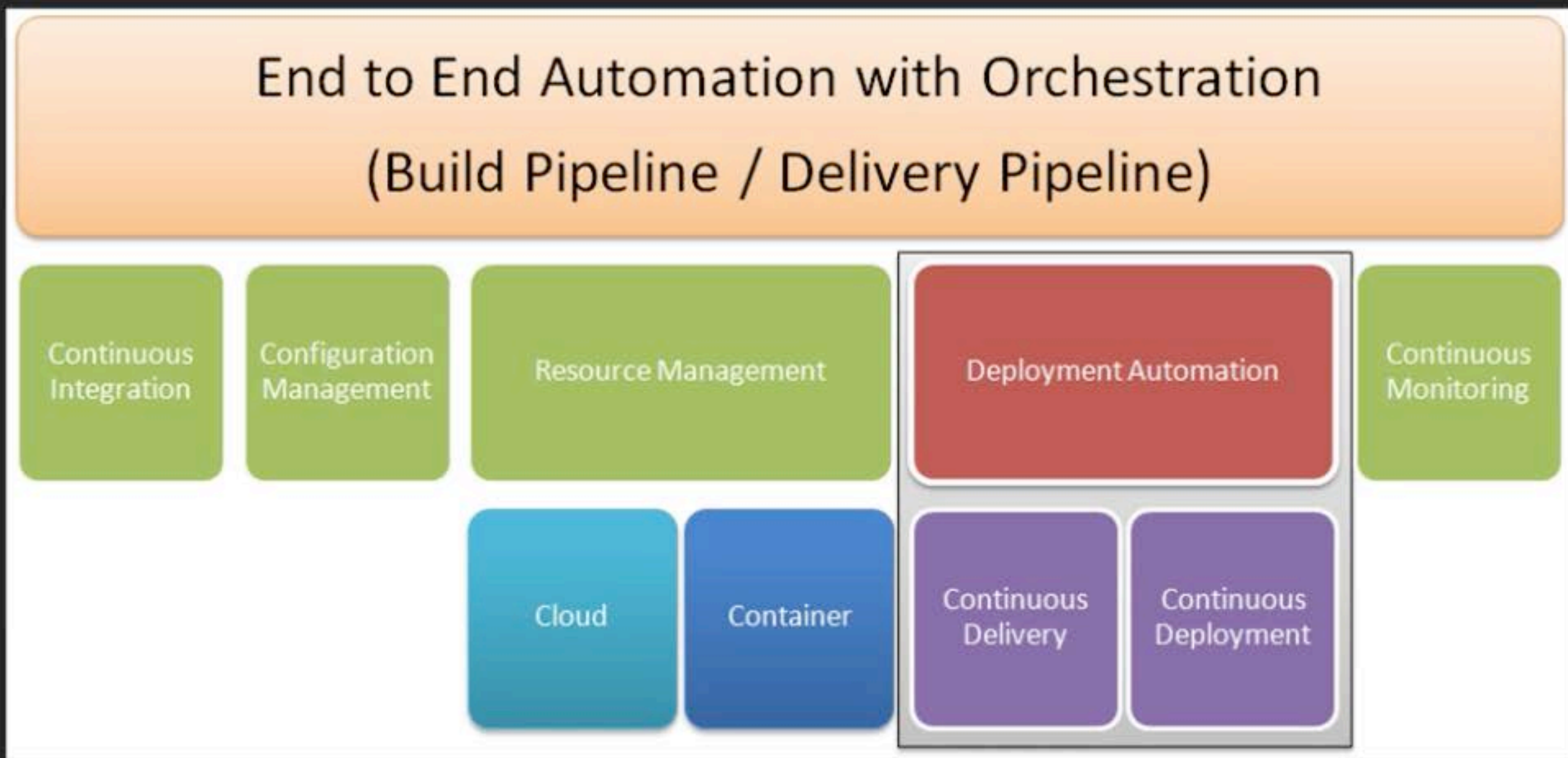
## Veterinarians

Name	Specialties
James Carter	none
Linda Douglas	dentistry surgery
Sharon Jenkins	none
Helen Leary	radiology
Rafael Ortega	surgery
Henry Stevens	radiology

[View as XML](#)[View as JSON](#)



# Final End-to-end Automation



## Summary

- Prerequisites – deploying our application on a remote server
- Deployed an application in Docker container
- Deployed an application in AWS
- Deployed an application in Microsoft Azure



## Next Section

# Monitoring Infrastructure and Applications