



# Global Azure BOOTCAMP MARONA





















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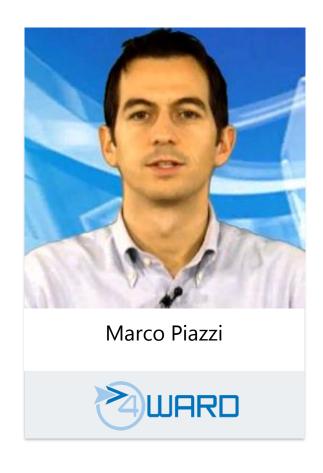


ARGOMENTO

# Continuous Deployment to Azure App Service with VSTS

Introduzione







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marcopiazzi



marcopiazzi

#### Agenda



- Visual Studio Team Services (VSTS) and DevOps
- Manage Infrastructure as Code (IaC) with Azure Resource Manager template
- Azure App Service: Platform as a Service (PaaS)
- DEMO

#### Visual Studio Team Services (VSTS)



VSTS : Cloud = TFS : On-Premise

Software as-a-Service (SaaS) model on Azure

It covers the Application Lifecycle Management and enal DevOps

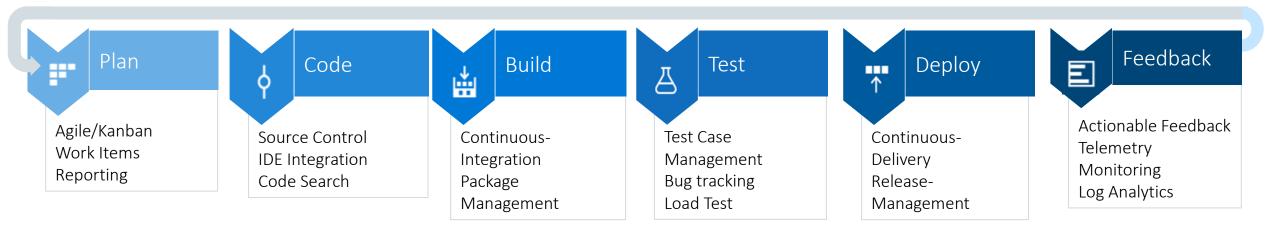
capabilities.





#### Azure DevOps with VSTS









































#### List of DevOps practices



- Infrastructure as Code (IaC)
- Continuous Integration (CI)
- Automated Testing
- Continuous Delivery/Deployment (CD)
- Release Management
- App Performance Monitoring
- Load Testing & Auto Scale



#### Azure Resource Manager (ARM)



Automate deploying resources with Azure Resource Manager templates in a single, coordinated operation.

Define resources and configurable input parameters and deploy with script or code.

Infrastructure as Code (IaC)

Declarative model driven deployment

ARM template (JSON files): idempotent provisioning resources in the Azure cloud

Azure Resource Groups



#### Azure Resource Manager (ARM)



#### **Template**

```
{
    "$schema": "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
    "contentVersion": "",
    "parameters": { },
    "variables": { },
    "resources": [ ],
    "outputs": { }
}
```

#### ARM template

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#### **Parameters**

```
"parameters": {
    "siteNamePrefix": {
        "type": "string",
        "minLength": 1,
        "metadata": {
          "description": "The name prefix of the web app that you wish to create."
        }
    },
},
```

#### ARM template



#### Resources

#### Azure App Service





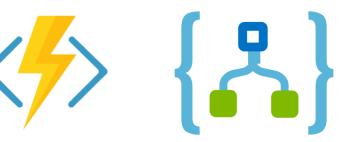
**Azure App Service** 











Web App

**API** App

**Mobile App** 

Web App for Containers

**Functions App** 

**Logic App** 

#### Azure App Service

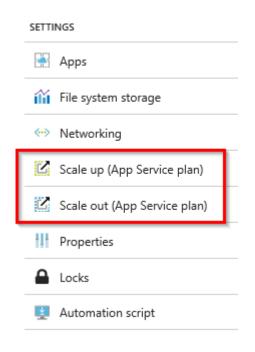
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#### **Web Apps**

Multiple languages and framework (.NET, Node.js, Java, PHP, and Python)

DevOps optimization: CI/CD with VSTS, GitHub, BitBucket, Docker Hub, Azure Container Registry

Scalable: up or out











Scale up

**Scale out** 

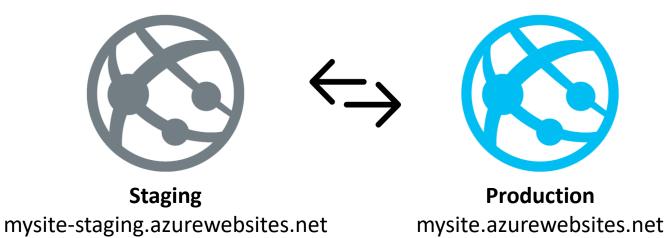
#### Azure App Service

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**Web Apps: Staging environments (deployment slot)** 

Deploy app to separate deployment slot (staging) instead of the default slot (production) Swap App content and configurations elements

All instances are warmed up before being swapped into production → No downtime Rollback strategy











## Grazie

Domande?





