

Developer Productivity In Azure

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LOFTYSOFT



Boss wants a demo environment?

Testers want the latest features?

Devs deployed dev ConnStr
to production?

Historically in *Windows Azure*...

+20 min deploy time.

No error checking.

Failures meant you had to start over.

Today in *Microsoft Azure*

Near instant deploy time!

Many errors cause warnings!

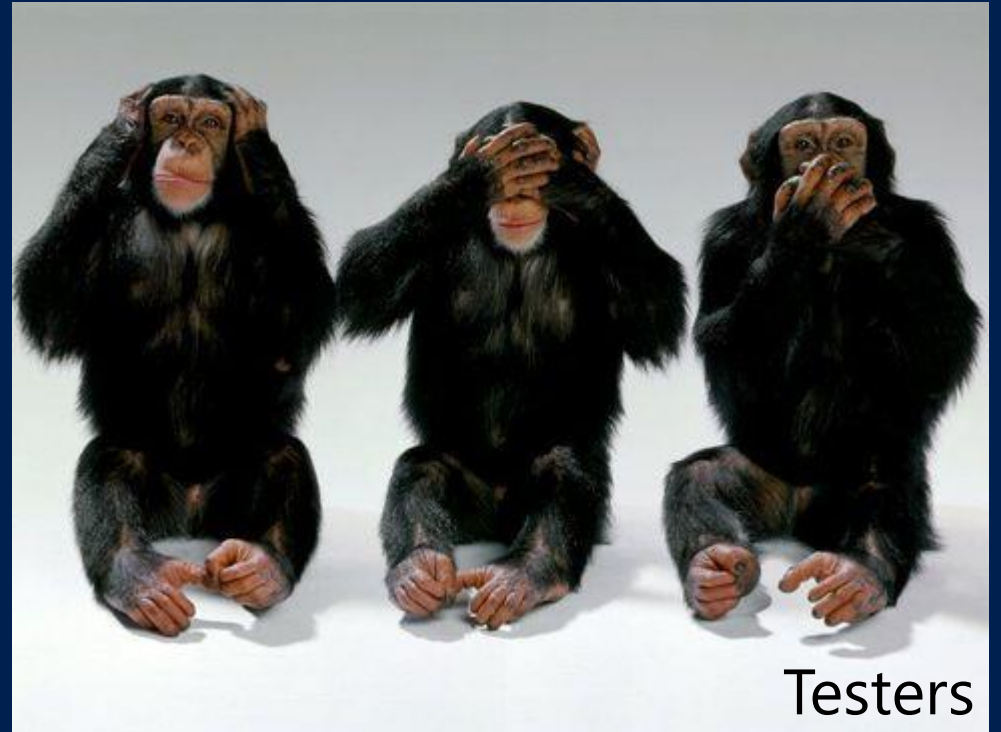
Failures can happen but who cares?



Boss



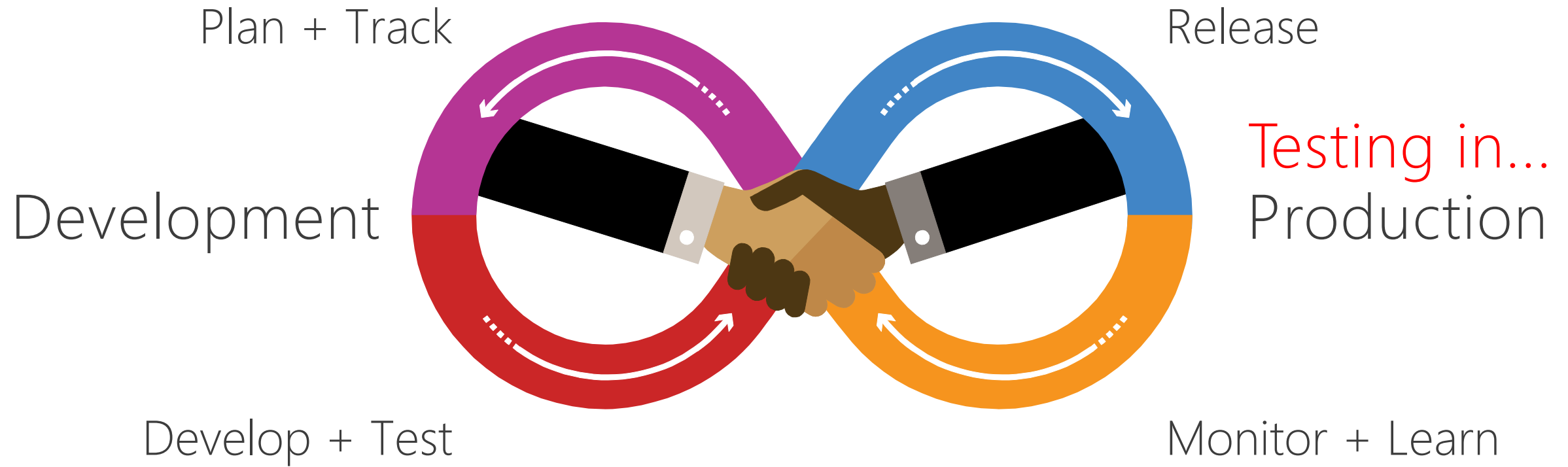
Developer



Testers



The converged DevOps lifecycle



"Example isn't another way to teach;
it's the only way"

Albert Einstein

Set up a Web Application in Azure

Publish to the Cloud

Set up a Project Space for Source Code, Team Project and Management

Connect Source and Web Application

Horseless Carriage





Continuous Delivery

Demo

Continuous Delivery

We're in Production!
Great!

Or is it Great?

Is it OK even?

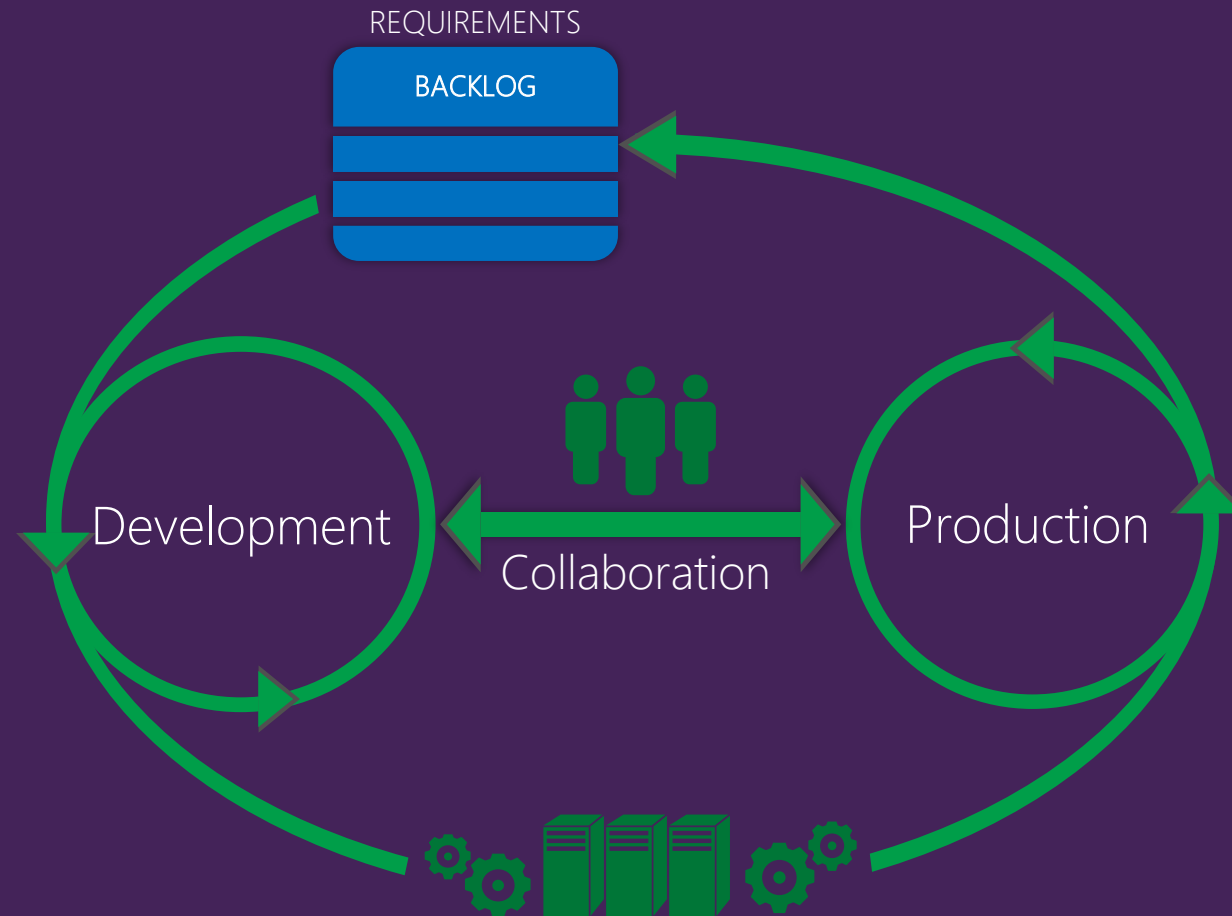
Who knows?

Is my application...
Available?
Performing?
Succeeding?

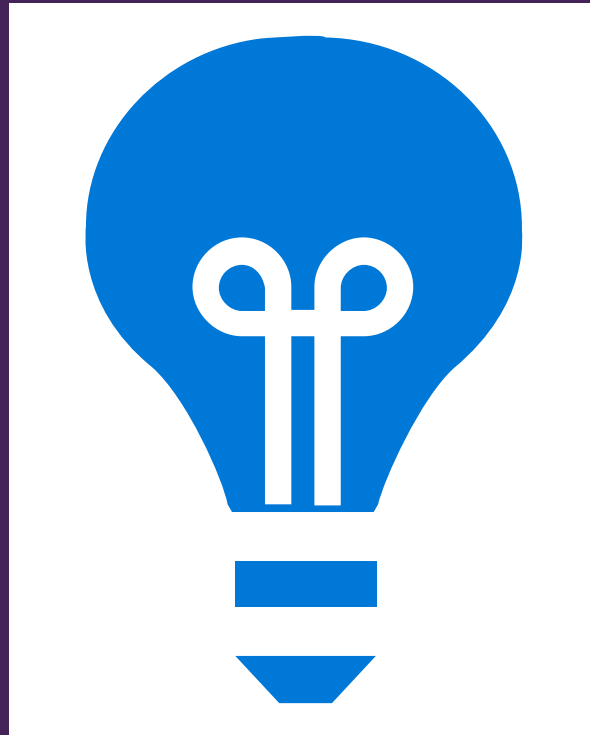
Measure then cut!



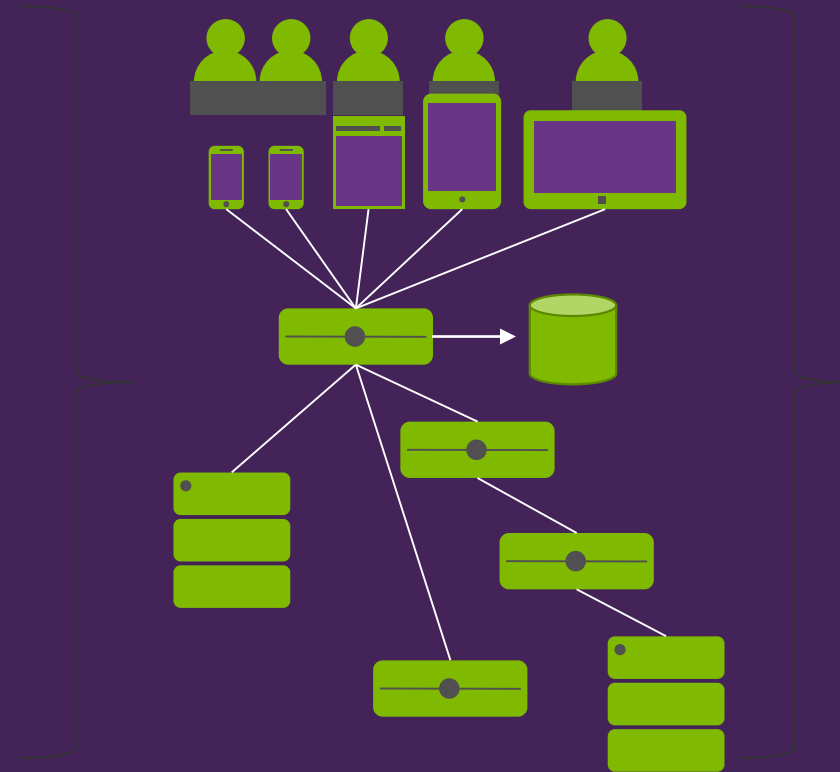
Modern Application Lifecycle



Application Insights



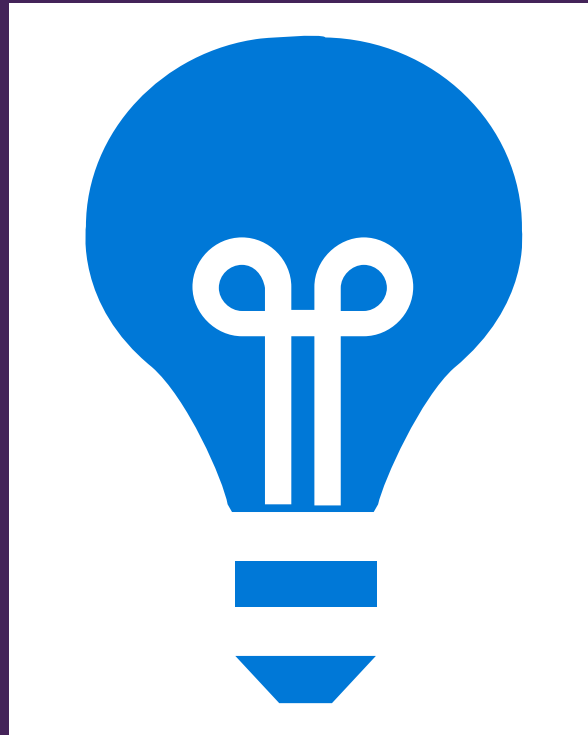
Application Insights



1. Telemetry is collected at each tier: Mobile applications, server applications and browser

Application Insights Code

Application Insights



2. Telemetry arrives to Application Insights service where it is processed & stored

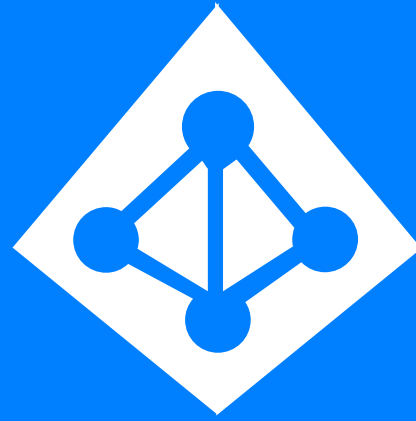
Application Insights



3. Get 360° view of the application covering availability, performance & usage

Demo

Application Insights Monitoring



Azure Active Directory

AAD

- To Azure -
- To VSO -

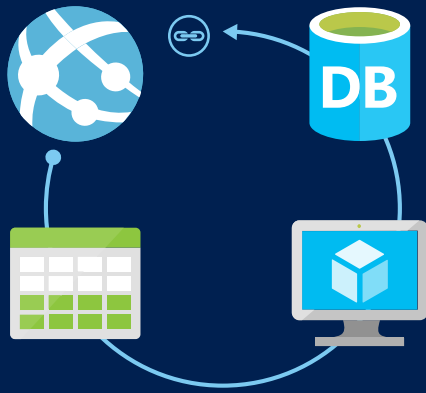
Security with RBAC

Secured WebApp slots

Microsoft has invested an ARM and a leg in their automation story!

Azure Resource Manager

Resource Group



- container for multiple resources
- resources exist in one resource group
- resource groups can span regions
- resource groups can span services

ARM Areas of Focus



Deploy



Organize



Control

Deploying with Azure Resource Manager

- template-driven
- declarative
- idempotent
- multi-service
- multi-region
- extensible

<https://resources.azure.com/>

Azure Resource Group in Visual Studio

How are they doing Dev/Test @ Microsoft?

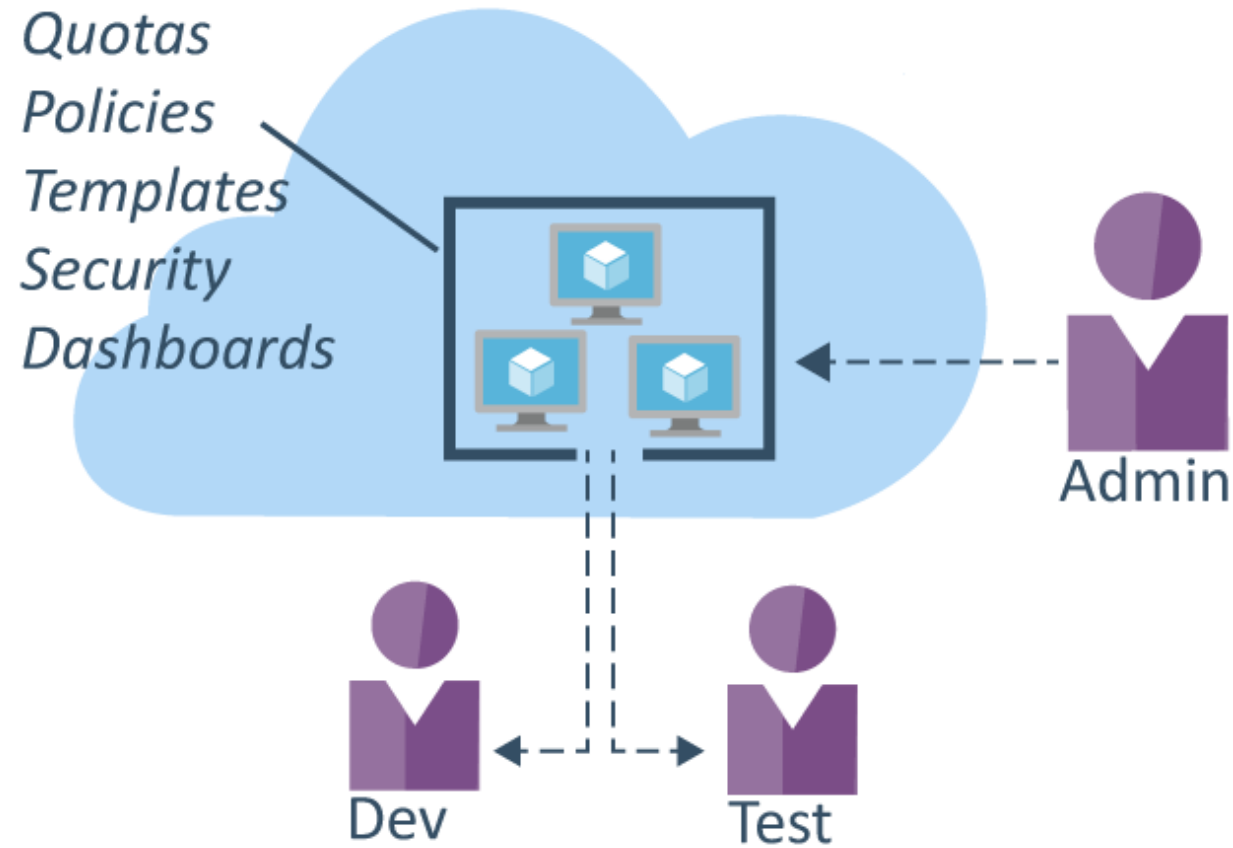


Azure Dev/Test Lab





Worry Free Self-Service












Fast Provisioning



Quick Walk Through

PREVIEW



 <p>KEW BACKLOG</p>	 <p>KEW TEAM LAB</p>	<p>Tour</p>  <p>Welcome to Azure</p>	
 <p>ADD TEAM MEMBER</p>	 <p>MY DEV BOX</p>	 <p>ALL ITEMS</p>	 <p>WHAT'S NEW</p>
<p>Billing</p>  <p>42 TOTAL</p> <p>MSDN CREDIT REMAINING 112.17 s</p> <p>DAYS REMAINING 15</p>		 <p>HELP + SUPPORT</p>	 <p>PORTAL SETTINGS</p>
		 <p>FEEDBACK</p>	 <p>AZURE PORTAL</p>







Kew Team Lab

DEV/TEST LAB








- Settings
- Create Lab VM
- Create Lab Container

Essentials

My Lab VMs/Containers

LAB VM/CONTAINER	STATUS	DESCRIPTION	
 dan22-00	Running	Windows 8.1 (64) + Dev14 VSPro_VBCS 2283.00	...
 dan22-01	Running	Windows 8.1 (64) + Dev14 VSClient_1 2283.00 + Office2013	...
 dan23-01	Running	Windows 8.1 (64) + Dev14 VSPro_Platform 2283.00 + Office2013	...
 dan41-01u	Running	Ubuntu 15.04 + ASP .NET 5	...

Available Lab VMs

LAB VM	STATUS	DESCRIPTION	
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 DDXVM3735	Running	Windows 8.1 (64) + Dev14 VSClient_1 2283.00	...
 DDXVM3736	Shutdown	Windows 8.1 (64) + Dev14 VSClient_1 2283.00 + Office2013	...
 DDXVM3737	Shutdown	Windows 8.1 (64) + Dev14 VSPro_VBCS 2283.00	...
 DDXVM3738	Shutdown	Windows 8.1 (64) + Dev14 VSPro_VBCS 2283.00	...
 DDXVM3739	Shutdown	Windows 8.1 (64) + Dev14 VSPro_VBCS 2283.00	...
 DDXVM3740	Shutdown	Windows 8.1 (64) + Dev14 VSClient_1 2283.00 + Office2013	...

Available Lab Container Images

LAB CONTAINER IMAGE	STATUS	DESCRIPTION	
 DDXCON2804	Ready	Ubuntu 15.04 + ASP .NET 5	...
 DDXCON2805	Ready	Ubuntu 12.04 + ASP .NET 5	...
 DDXCON2806	Ready	CentOS 7 + mono	...

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Create Lab VM

CONFIGURE SETTINGS

Lab VM Name

dan23-02

Admin Name

admin0214

Password

Base Image

Windows 8.1 (64)



Size

Standard A2



Artifacts

Remote Tools, VM Optimization, Office 2013



Parameters

8 filled



Resource Group

DTL-NewGrp



Subscription

CPT Dev Test Labs R and D



Location

Central US



Scheduled Shutdown Opt Out

Off

On

Create

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Off On

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Select Lab VM Size

A0 Standard	A1 Standard	A2 Standard ★
0.25 Core	1 Core	2 Cores
0.75 GB	1.75 GB	3.5 GB
1 Data disks	2 Data disks	4 Data disks
1x500 Max IOPS	2x500 Max IOPS	4x500 Max IOPS
Load balancing	Load balancing	Load balancing
Auto scale	Auto scale	Auto scale



Kew Team Lab

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dan23-02


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admin0214


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Base Image 
Windows 8.1 (64)


Size 
Standard A1

Artifacts 
Remote Tools, VM Optimization, Office 2013

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Create

Artifacts

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VM Optimization	Turn off IE ESC, use blank page as start page. Show ...	Ankur Mittal
Office 2013	Installs Office 2013 with SP1.	Shichaoh Hu
Office 2013 x64	Installs Office 2013 x64	Iouri Simernitski
Visual Studio Tools for Unity	Installs Visual Studio Tools for Unity (Visual Studio is required).	sebleb
.NET Framework (vNext)	Dev14 .NET Framework installer	Ankur Mittal
Office 2016	Install Office 16	patbak
HIS: Addingt Redmond\hislabs	Remote debugging tools	Shichaoh Hu
IronPython	Installs a version of CPython for all users of the new virtual ...	stevdot
Lightswitch	Installs LightSwitch 2011 RTM (Stand Alone SKU). NOTE: ...	patbak
Unity 3D	Installs Unity3D.	sebleb
Azure RM Tools (vNext)	Installs a internal build of Windows Azure RM Tools for...	heaths
Azure SDK	Install Azure Sdk from \\jisdist\AzureSDK\	husun
HIS: Install Biztalk 2013 R2	Configures BizTalk 2013 R2 using hislabs as the account for ...	tsnook
HIS: Install ETCM x64 .NET 4	Installation of ETCM x64 built with the .NET framework v4.0	tsnook
HIS: Install ETCM x86 .NET 4	HIS: Install ETCM x86 .NET 4	tsnook
HIS: Install SQL Server 2012	Installs the RTM build of SQL Server 2012 with ...	tsnook
HIS: Install SQL Server 2014	Please note you need to install the .NET Framework 3.5 ...	tsnook
HIS: SQL Server 2012 SP2 x64	Installation of SQL Server 2012 SP2 x64	tsnook
HIS: Install the 3.5 Framework	Install the 3.5 version of the .NET framework	tsnook
HIS: SQL Server 2012 SP2 x86	Installation of SQL Server 2012 SP2 x86	tsnook
Install Fiddler	Installs Fiddler.	miguelca
Install Git	Installs Git.	miguelca

OK

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Windows 8.1 (64)

Size
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Artifacts
Remote Tools, VM Optimization, Office 2013, Visual Studio Tools for Unity, Dev14 .NET

Parameters
8 filled

Resource Group
DTL-NewGrp

Subscription
CPT Dev Test Labs R and D

Location
Central US

Scheduled Shutdown Opt Out Off On

Create

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Parameters

PARAMETER	VALUE	ARTIFACT
AdminvNextEnabled	False	BudgetIT WebSite
ServerName	v45-Node1	BudgetIT WebSite
StorageConnectionString	DefaultEndpointsPr	BudgetIT WebSite
DatabaseName	ItDataBaseAcct	BudgetIT Database
AdminName	Admin@new	BudgetIT Database
AdminPassword	*****	BudgetIT Database
StorageConnectionString	DefaultEndpointsPr	BudgetIT WebSite
OpenIDServer	Packetizer	Central Auth

Done

... ✦ - ✕

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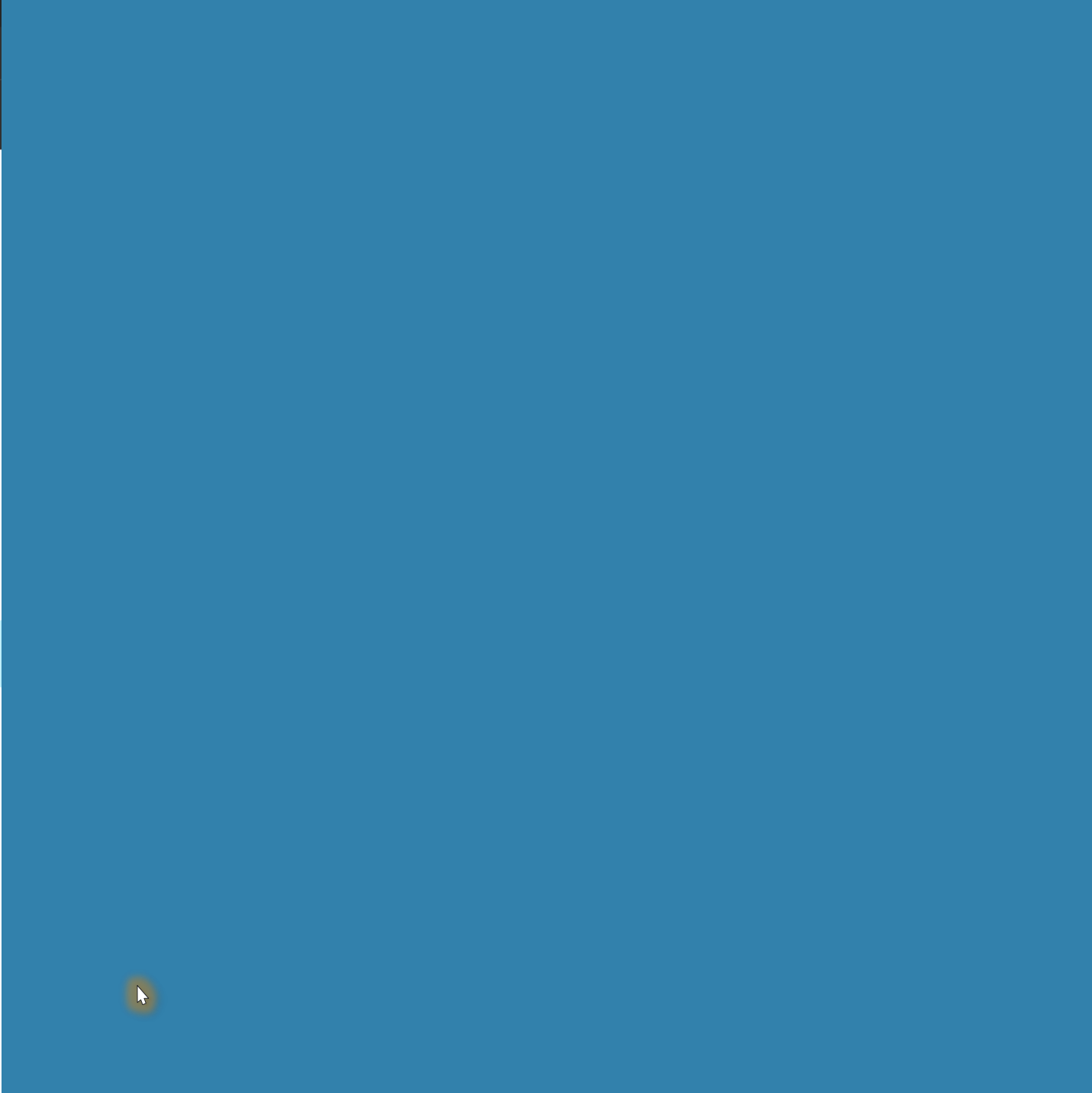
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LAB VM	STATUS	DESCRIPTION	
 DDxVM3734	Running	Windows 8.1 (64) + Dev14 VSClient_1 2283.00	...
 DDxVM3735	Running	Windows 8.1 (64) + Dev14 VSClient_1 2283.00	...
 DDxVM3736	Shutdown	Windows 8.1 (64) + Dev14 VSClient_1 2283.00 + Office2013	...
 DDxVM3737	Shutdown	Windows 8.1 (64) + Dev14 VSPro_VBCS 2283.00	...
 DDxVM3738	Shutdown	Windows 8.1 (64) + Dev14 VSPro_VBCS 2283.00	...
 DDxVM3739	Shutdown	Windows 8.1 (64) + Dev14 VSPro_VBCS 2283.00	...
 DDxVM3740	Shutdown	Windows 8.1 (64) + Dev14 VSClient_1 2283.00 + Office2013	...

Available Lab Container Images

LAB CONTAINER IMAGE	STATUS	DESCRIPTION	
 DDxCON2804	Ready	Ubuntu 15.04 + ASP .NET 5	...
 DDxCON2805	Ready	Ubuntu 12.04 + ASP .NET 5	...
 DDxCON2806	Ready	CentOS 7 + mono	...

dan23-02

VIRTUAL MACHINE

- Settings
- Connect
- Shut down
- Restart
- Delete
- Save as Template

Essentials ^

Resource group	dan23-02	DNS name	dan23-02.cloudapp.net
Status	Running	Virtual IP address	104.43.160.14
Location	Central US	Private IP address	100.78.142.6
Subscription name	CPT Dev Test Labs R and D	Size	Standard A1 (1 Core, 1.75 GB)
Subscription id	e605a3bc-ee4e-4c7a-9709-1868a28b1d4d		

[All Settings →](#)

Monitoring

CPU percentage today

100%
80%
60%
40%
20%

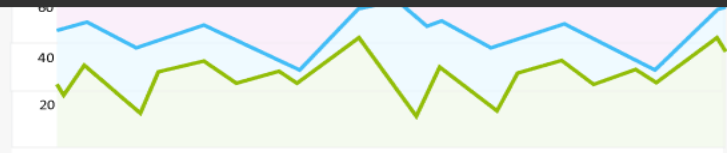
[Edit](#)

Integrations

Kew Team Lab

DEV/TEST LAB

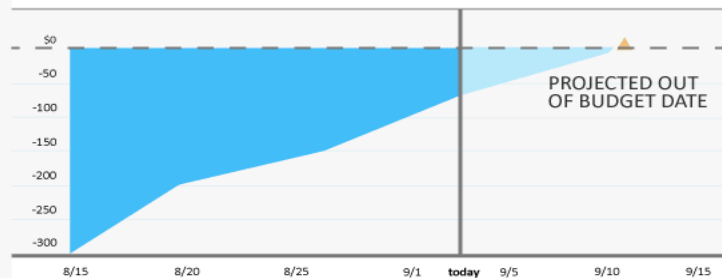
Settings + New Lab VM



ACTIVE 38
IDLE 19
SHUTDOWN 7

Usage

Budget Burn Rate



BUDGET USED 320 USD
REMAINING TO CAP 60 USD

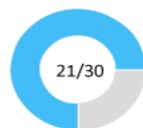
Days Left



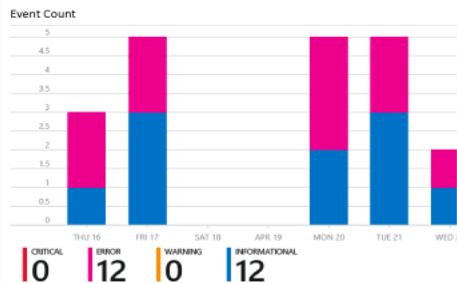
All Users



All Lab VMs

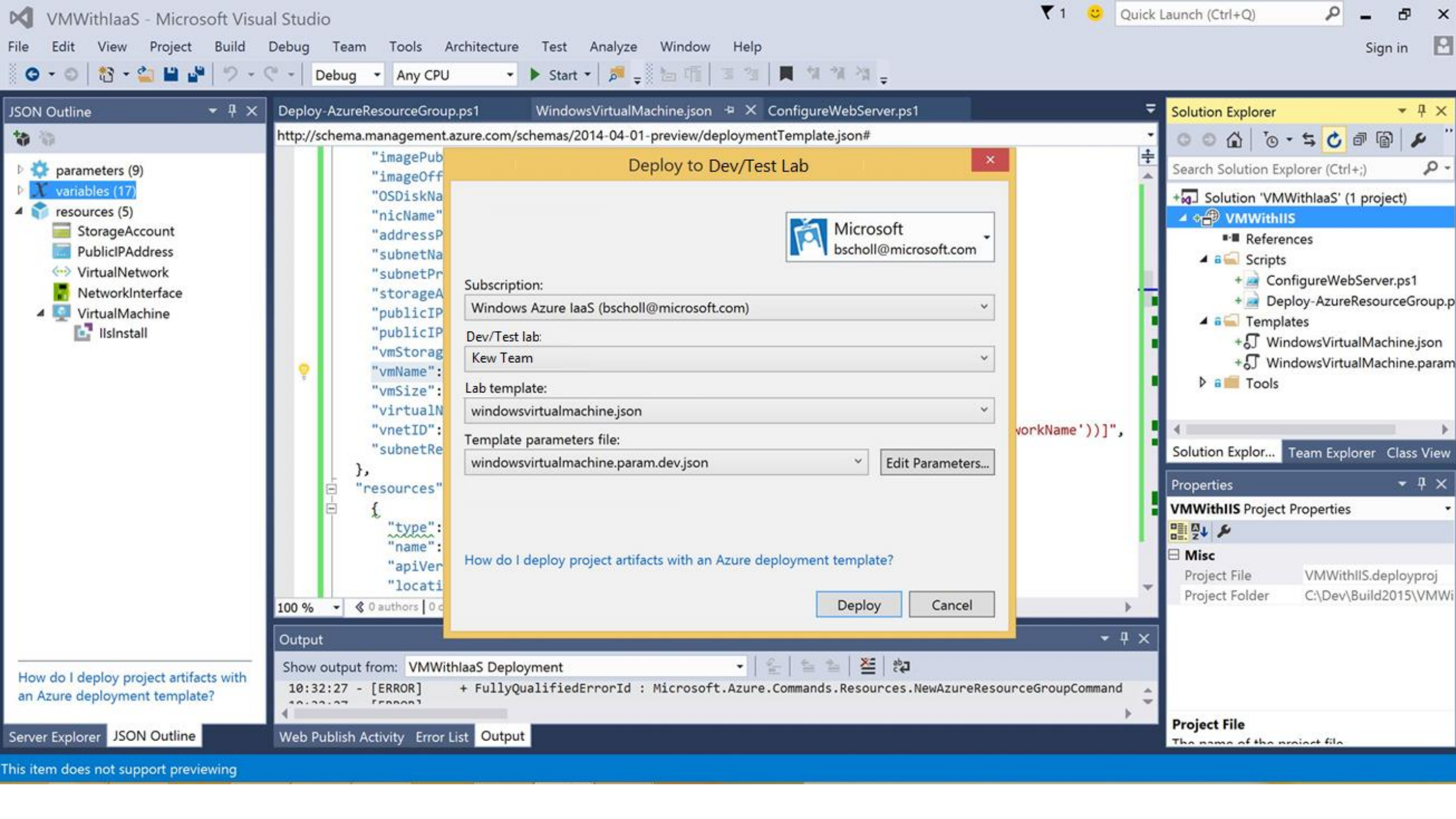


Operations



Alert Rules

0 Rules



Automated Pipeline - Release Management

Automates Deployments



BudgetIT*

BudgetIT

+ Add environments

- Dev ...
 - 0 tasks
 - 0 approvals

+ Add tasks...






No tasks here.

Close

Add tasks – Dev

Azure 🔍

All tasks (60)
Azure (4)
Test (8)
Deploy (10)
Other (30)

	Azure Website Deployment Deploy an Azure Website Microsoft Corporation	Add
	Azure Cloud Application Deployment Deploy an Azure Cloud Application Microsoft Corporation	Add
	Azure Powershell Run an Azure Powershell script Microsoft Corporation	Add
	Azure Resource Group Deployment Deploy a resource group in Azure Microsoft Corporation	Add
	Azure Dev/Test Lab Provisioning Provision a VM or Container in a Dev/Test Lab in Azure Microsoft Corporation	Add

Close

BudgetIT.Release*

Save Release

BudgetIT.Release

+ Add

Dev ...

8 tasks

0 approvals

+ Add tasks... ⋮

- Azure Dev/Test Lab Provisioning**
Provision VM in Azure Dev/Test Lab
- Azure Resource Group Deploy...**
Azure Deployment:
- Azure File Copy**
Copy file \$(release.artifactsDirector
- PowerShell on Target Machines..**
PowerShell script on
- Visual Studio Test Agent Deploy...**
Machine group:
- Visual Studio Test Run using Test..**
*Test assemblies: ***test*.dll*

Azure Deployment: ✎

Azure Subscription

Resource Group Location

Resource Group Name

Template

Template Parameters

Override Template Parameters

[Manage](#)

Advanced Deployment Options

Refresh SAS Token

Virtual Machine Credentials

Username

Password

PowerShell Deployment Ports

Network Protocol

Certificate

Certificate Thumbprint

Azure Key Vault

Control Options

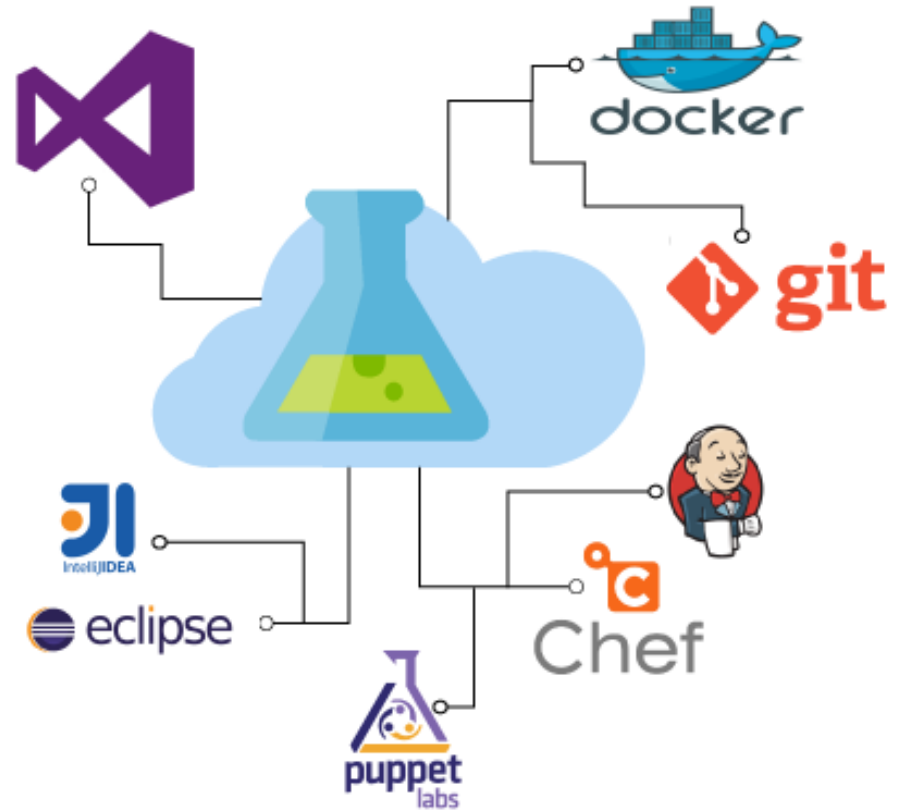
Enabled

Continue on Error

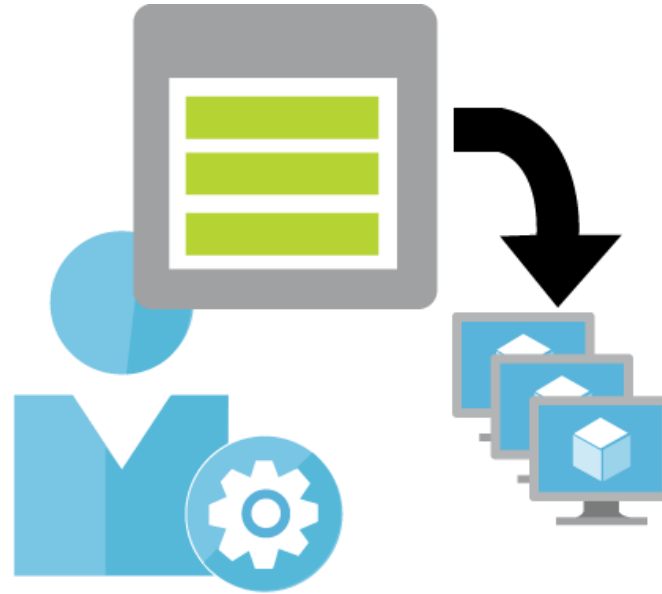
Always Run

Always Run

Integrates with your existing Toolchain



Create Once
Use Everywhere - By Everyone





Azure Dev/Test Lab



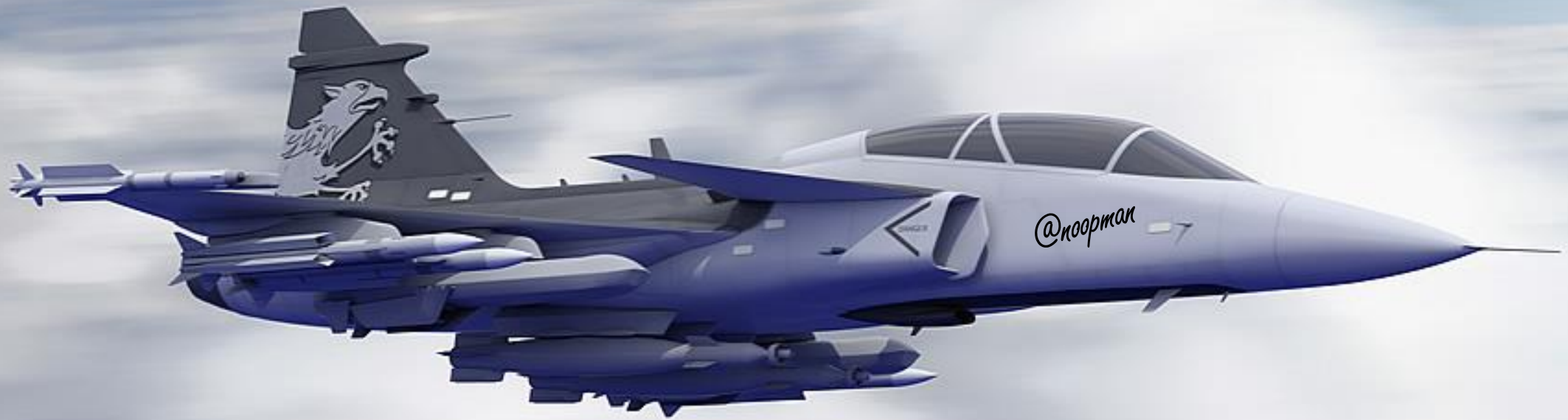
Monitor!

Automate!

Learn!

Be #awesome...

...continuously!



Microsoft
Regional Director

magnus@loftysoft.com

