Making the Most Out of the Azure Dev/Test Labs

N.E.W. CodeCamp 2017

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Infrastructure Architect
Microsoft MVP, MAA, Citrix CTP, VMware vExpert
@nelmedia

Full Disclosure

I could not code my way out of a wet paper bag…

But, I can script with some of the best.

Dev-test in the cloud: drivers and concerns

Drivers

Agility

Economics

Scale

Speed

IT admin

Concerns

Integration

Security

Compliance

Performance

WORKED FINE IN DEV
OPS PROBLEM NOW

DevOps Borat
@DEVOPS_BORAT

Follow

To make error is human. To propagate error to all server in automatic way is #devops.

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DevOps Borat @DEVOPS_BORAT 31 Mar

Goal of sysadmin is replace itself with small shell script. Goal of devops is replace itself with small REST API.

Expand

DevOps Borat
@DEVOPS_BORAT

Following

In devops we have best minds of generation are deal with flaky VPN client.

DevOps Borat
@DEVOPS_BORAT

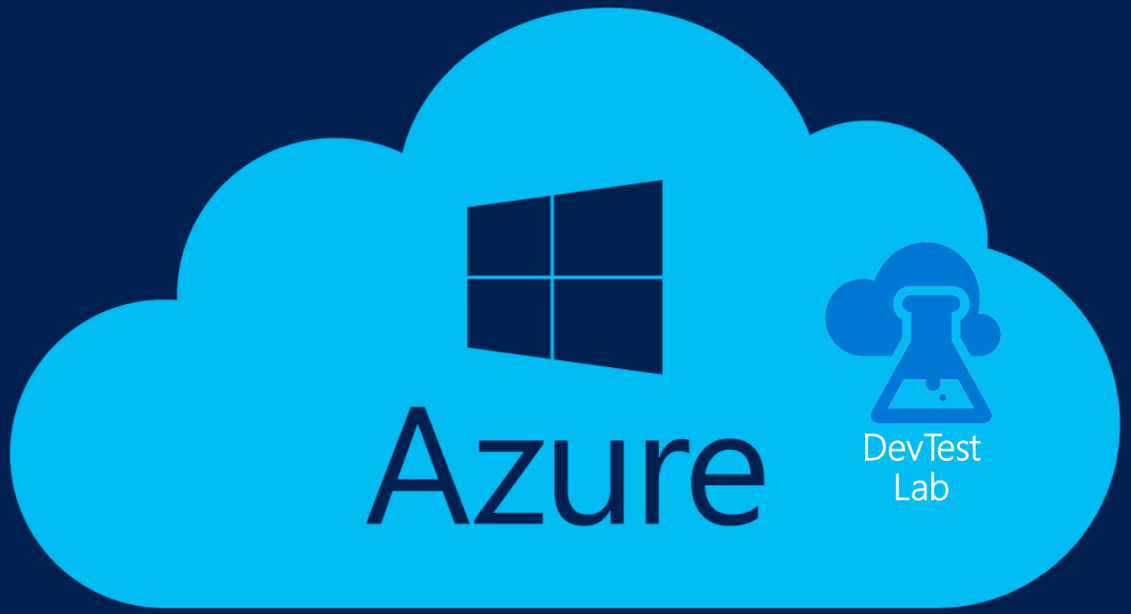
Word "impossible" is not exist in devops vocabulary. Instead we are use "done by Q4".

Develpers, Developers, Developers

IT admin

~~Provision VMs~~

Create/Manage Labs

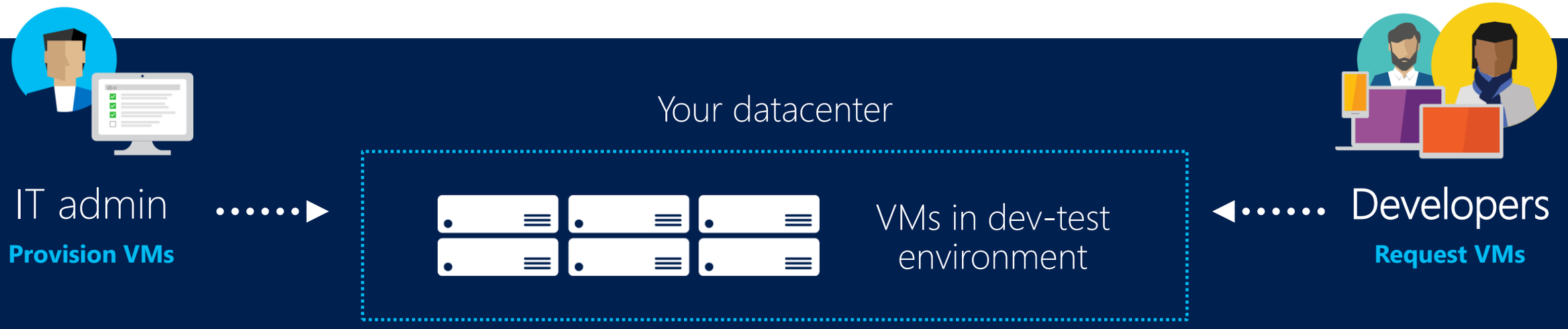


Developers

~~Request VMs~~

Provision VMs

Challenges of running dev-test on premises



65% **of developers say it is too complicated and time-consuming to get development and test resources**

10% **Average utilization of dedicated dev-test infrastructure**

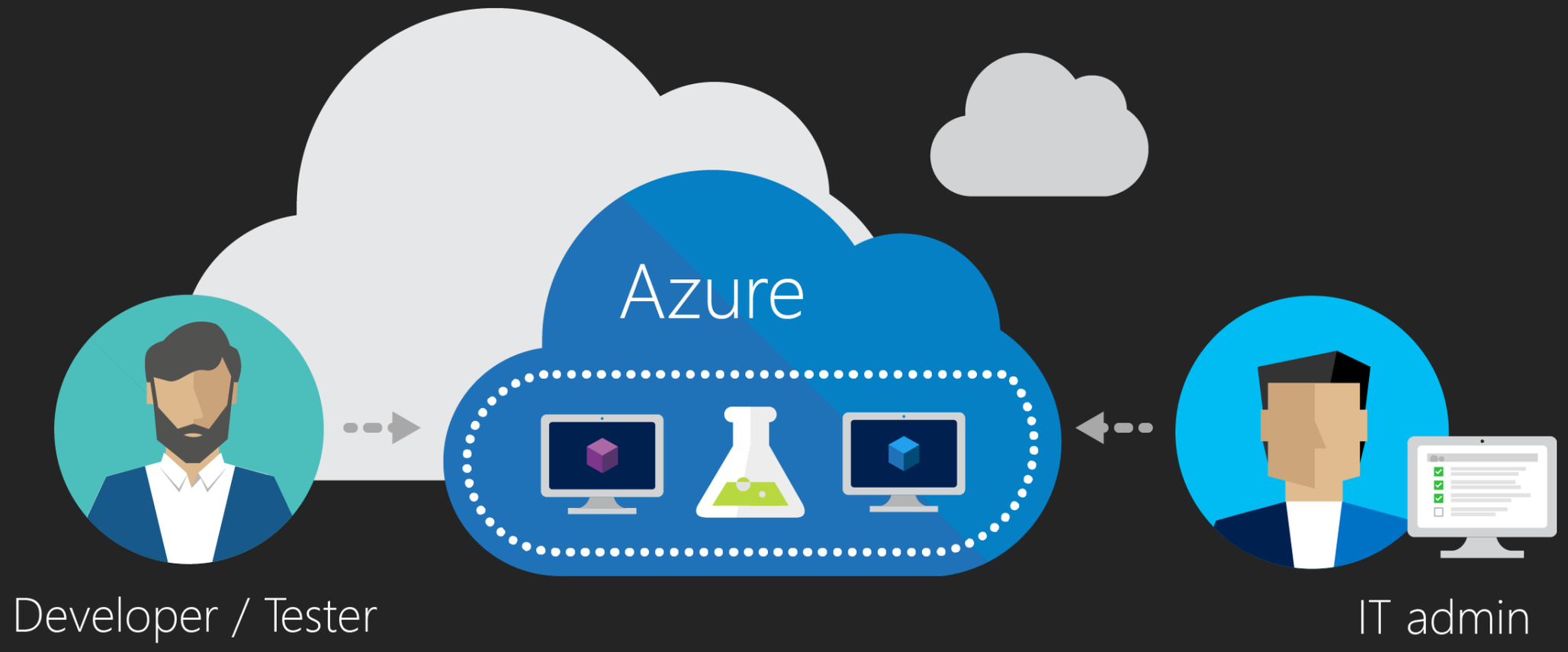
Source: Business Case for Test Environment Management Whitepaper, Cognizant

Your challenges

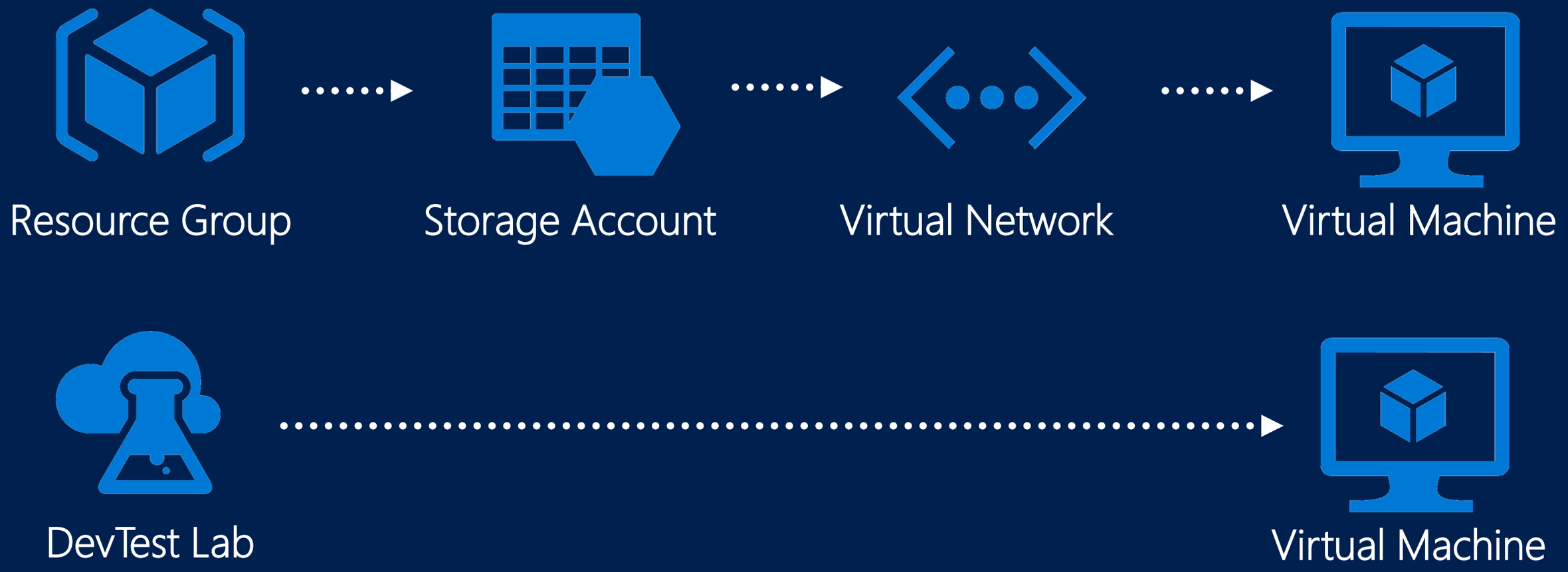
- Compromised agility
- Limited hardware budget
- Limited software licensing
- Resource contention with VMs
- Realistic scale tests often challenging
- Procurement delays

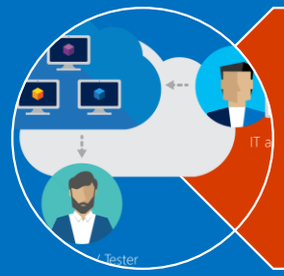
Azure DevTest Labs

Fast, easy, and lean dev-test environments in Azure.
Specifically for your team. On demand.



Regular VM vs DevTest VM





Worry-free self-service

Fast provisioning

Create once, use everywhere, by everyone

Integrate with your existing toolchain

@nelmedia 2017

Automated startup, shutdown, VM expiration

Automate setup and tear-down

Windows & Linux

BYOD / BYON

Owner & User roles

Pre-built ARM Templates and Artifacts

Secret Store

Shared IP’s

Data Disks

DevTest Labs Scenarios

- Dev Box (Dev / IT Pro)
- Test my (our) latest app. With ? Or against ? (Dev)
- Team development (Dev)
- QA testing (Dev)
- Platform troubleshooting (IT Pro)
- Environment replication (IT Pro)
- Training/Workshops/Hackathons (Dev / IT Pro)
- Trial/Demo (Dev / IT Pro)

GA	May 2016 – private since 2015
	Dedicated team & Devs
Cost	Free***
	Compute, network, storage, egress bandwidth, etc.
Limits	No limit to # of labs created
	# of VM's limited by subscription (Azure limitation)
	Based on ARM sub limits (20 cores per sub - 5 vm's w/4 cores ea = 20 limit)
	Typical lab ~40 VM's running concurrent on STD storage, ~22 VM's on SSD storage
	Increases can be requested & change periodically
	https://docs.microsoft.com/en-us/azure/azure-subscription-service-limits

Demo

But, before we get to that…

Resources

- Dev/Test Labs GitHub – https://github.com/Azure/azure-devtestlab
- DevOps Case Studies - https://microsoft.github.io/techcasestudies/#technology=DevOps
- VSTS/TFS Extension - https://marketplace.visualstudio.com/items?itemName=ms-azuredevtestlabs.tasks
- Team Blog - https://blogs.msdn.microsoft.com/devtestlab/
- MSDN Forum - https://social.msdn.microsoft.com/Forums/en-US/home?forum=AzureDevTestLabs
- UserVoice - https://feedback.azure.com/forums/320373-devtest-labs
- Latest Updates – https://azure.microsoft.com/en-us/updates/?service=devtest-lab
- Documentation – https://azure.microsoft.com/en-us/documentation/services/devtest-lab/
- Videos – https://azure.microsoft.com/en-us/documentation/videos/index/?services=devtest-lab
- Code Samples - https://azure.microsoft.com/en-us/resources/samples/

What's in the demo:

Create a lab
Set policies
Set virtual networks
Configure artifact repositories
Manage VM bases
Add lab users
Create a VM
Manage existing VMs

Create a Lab

InPrivate https://ms.portal.azure.com/?Microsoft_Azure_DevTestLab=true&hubsExtension_ItemHideKey=ms- Dashboard - Microsoft Azure

Internal Microsoft Azure Report bug Search resources Azure Tools MICROSOFT

Dashboard | Edit

New

Resource groups

All resources

Recent

App Services

SQL databases

Virtual machines (classic)

Virtual machines

Cloud services (classic)

Subscriptions

DevTest Labs

Browse

FabrikamLab

Help + support

125%

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New

Resource groups

All resources

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App Services

SQL databases

Virtual machines (classic)

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Cloud services (classic)

Subscriptions

DevTest Labs

Browse

dev

DevTest Labs PREVIEW

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New

Resource groups

All resources

Recent

App Services

SQL databases

Virtual machines (classic)

Virtual machines

Cloud services (classic)

Subscriptions

DevTest Labs

Browse

DevTest Labs

Microsoft - PREVIEW

Add Columns Refresh

NAME	STATUS	SUBSCRIPTION	
AdvisorDemoLab	Ready	CPT DevTest Integration Test	...
ankurprod	Ready	CPT DevTest Integration Test	...
ankurprodje	Ready	CPT DevTest Integration Test	...
ankurprodjw	Ready	CPT DevTest Integration Test	...
ArunBBLab1	Ready	CPT DevTest Integration Test	...
ArunDemo2	Ready	CPT DevTest Integration Test	...
BudgetITLab	Ready	CPT DevTest Integration Test	...
ccNewLab8	Ready	CPT DevTest Integration Test	...
ccRPPEastAsia	Ready	CPT DevTest Integration Test	...
ccRPPJanpanEast	Ready	CPT DevTest Integration Test	...
ccRRP-WestEurope	Ready	CPT DevTest Integration Test	...
ccRRP-WestUS	Ready	CPT DevTest Integration Test	...
ccTestEA2	Ready	CPT DevTest Integration Test	...
ccTestIbizaProd	Ready	CPT DevTest Integration Test	...
ccTestLab	Ready	CPT DevTest Integration Test	...
ccTestLab2	Ready	CPT DevTest Integration Test	...

125%

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Create a DevTest Lab - Micr...

Internal | Microsoft Azure | DevTest Labs > Create a DevTest Lab | Report bug | Search resources | Azure Tools MICROSOFT

- New
- Resource groups
- All resources
- Recent
- App Services
- SQL databases
- Virtual machines (classic)
- Virtual machines
- Cloud services (classic)
- Subscriptions
- DevTest Labs
- Browse >

Create a DevTest Lab

PREVIEW

Lab Name

FabrikamPremiumLab

Subscription

CPT DevTest Integration Test

* Location

East Asia

Auto shutdown

Enabled

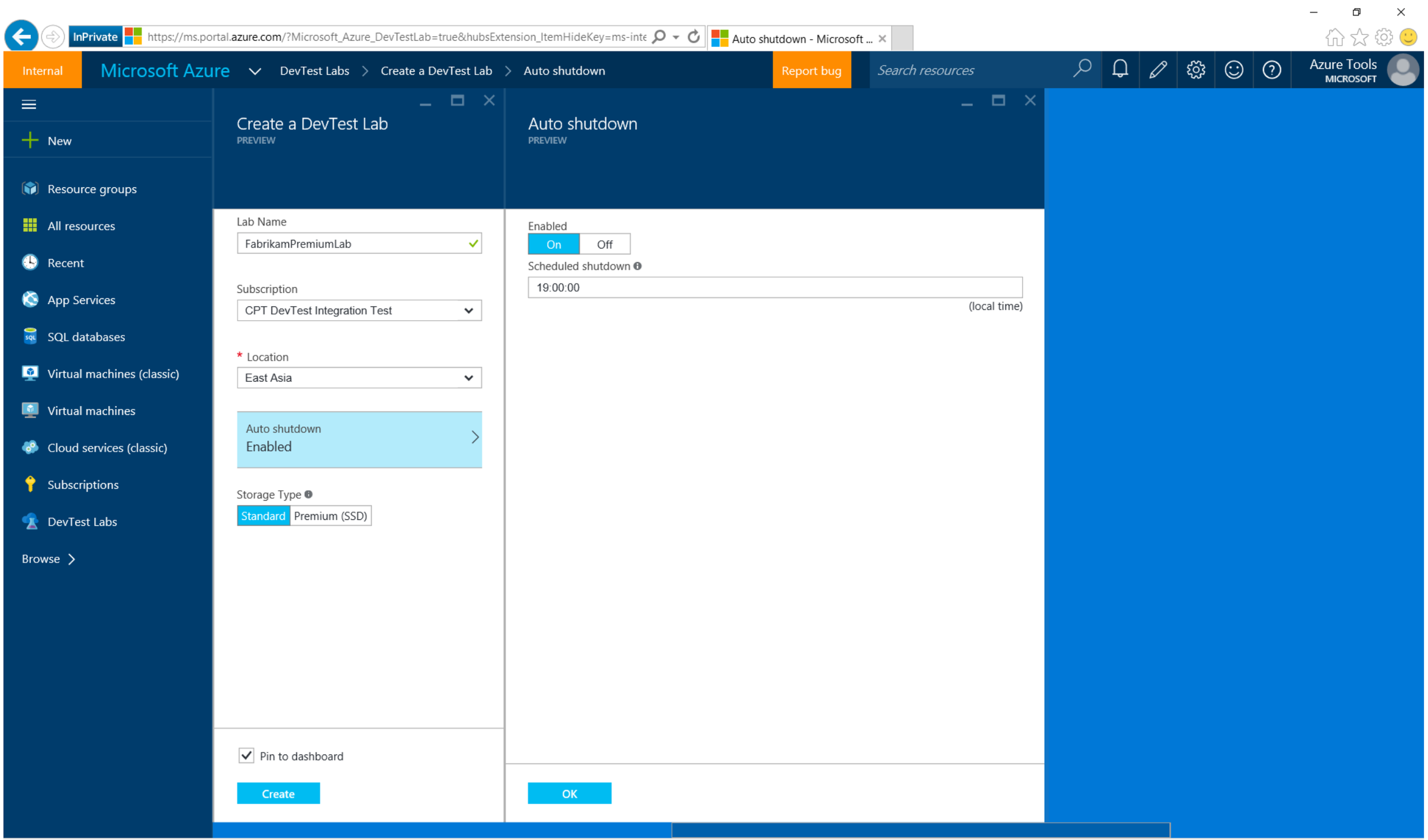
Storage Type

Standard | Premium (SSD)

Pin to dashboard

Create

125%


InPrivate
https://ms.portal.azure.com/?Microsoft_Azure_DevTestLab=true&hubsExtension_ItemHideKey=ms-inte
Auto shutdown - Microsoft ...
Internal
Microsoft Azure
DevTest Labs
Create a DevTest Lab
Auto shutdown
Report bug
Search resources
Azure Tools
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New
Resource groups
All resources
Recent
App Services
SQL databases
Virtual machines (classic)
Virtual machines
Cloud services (classic)
Subscriptions
DevTest Labs
Browse
Create a DevTest Lab
PREVIEW
Lab Name
FabrikamPremiumLab
Subscription
CPT DevTest Integration Test
* Location
East Asia
Auto shutdown
Enabled
Storage Type
Standard
Premium (SSD)
Pin to dashboard
Create
Auto shutdown
PREVIEW
Enabled
On
Off
Scheduled shutdown
19:00:00
(local time)
OK
125%

InPrivate https://ms.portal.azure.com/?Microsoft_Azure_DevTestLab=true&hubsExtension_ItemHideKey=ms-inte

Create a DevTest Lab - Micr...

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- New
- Resource groups
- All resources
- Recent
- App Services
- SQL databases
- Virtual machines (classic)
- Virtual machines
- Cloud services (classic)
- Subscriptions
- DevTest Labs
- Browse >

Create a DevTest Lab

PREVIEW

Lab Name

FabrikamPremiumLab

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CPT DevTest Integration Test

* Location

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☑ Pin to dashboard

Create

125%

InPrivate https://ms.portal.azure.com/?Microsoft_Azure_DevTestLab=true&hubsExtension_ItemHideKey=ms- Dashboard - Microsoft Azure

Internal Microsoft Azure Report bug Search resources Azure Tools MICROSOFT

Dashboard | Edit

Deployment started... 4:35 PM

New

Resource groups

All resources

Recent

App Services

SQL databases

Virtual machines (classic)

Virtual machines

Cloud services (classic)

Subscriptions

DevTest Labs

Browse

FabrikamLab

Help + support

Submitting deployment for DevTest Labs

125%

a couple of minutes later…

https://ms.portal.azure.com/#resource/subscriptions/e605a3bc-ee4e-4c7a-9709-1868a28b1d4d/resourcegroups/FabrikamPremiumLabRG6570

Settings - Microsoft Azure

Preview UI | Microsoft Azure | FabrikamPremiumLab > Settings | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

FabrikamPremiumLab

PREVIEW

Settings | Refresh | Lab VM | Delete

Essentials

My VMs — Add tiles

NAME	STATUS	AUTOSTART	AUTOSHUTDOWN	BASE
Nothing to display				

Add tiles

Getting started | MSDN forum | Feedback

Add a section

Settings

FabrikamPremiumLab - PREVIEW

SUPPORT + TROUBLESHOOTING

- Troubleshoot
- Audit logs
- New support request

MANAGE

- Properties
- All VMs
- Artifact repositories
- Virtual networks

VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

150%

Set Policies

https://ms.portal.azure.com/

Dashboard - Microsoft Azure

Preview UI | Microsoft Azure | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Demo Dashboard

New dashboard | Edit dashboard | Share | Fullscreen | Clone | Delete

FabrikamDemoLab

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/p

FabrikamDemoLab - Micros...

Preview UI | Microsoft Azure | FabrikamDemoLab | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

FabrikamDemoLab

PREVIEW

Settings | Refresh | Lab VM | Delete

Essentials

My VMs

Add tiles

NAME	STATUS	AUTOSTART	AUTOSHUTDOWN	BASE
DevBox001	Running	Opted-out	Opted-in	Fabrikam Dev Box
TestBox001	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...
TestLatest0219	Stopped	Opted-out	Opted-in	Fabrikam Latest Testing Build 02...
testVSTSdeploy	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...

Add tiles

Getting started | MSDN forum | Feedback

Add a section

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/pr

Settings - Microsoft Azure

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

FabrikamDemoLab

PREVIEW

Settings | Refresh | Lab VM | Delete

Essentials

My VMs

Add tiles

NAME	STATUS	AUTOSTART	AUTOSHUTDOWN	BASE
DevBox001	Running	Opted-out	Opted-in	Fabrikam Dev Box
TestBox001	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...
TestLatest0219	Stopped	Opted-out	Opted-in	Fabrikam Latest Testing Build 02...
testVSTSdeploy	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...

Add tiles

Getting started | MSDN forum | Feedback

Add a section

Settings

FabrikamDemoLab - PREVIEW

SUPPORT + TROUBLESHOOTING

- Troubleshoot
- Audit logs
- New support request

MANAGE

- Properties
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VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

150%

https://ms.portal.azure.com/#blade/Microsoft_Azure_DevTestLab/CostThresholdPolicyBlade/id/%2Fsubscriptions%2Ff2756440-b605-4c6f-b69d-d8

Cost thresholds - Microsoft ...

Preview UI | Microsoft Azure | DevTestLab_Build2016 > Settings > Cost thresholds | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Add tiles

ment desktop

ment Desktop

sting Build 0328

Add tiles

Settings

DevTestLab_Build2016 - PREVIEW

Filter settings

SUPPORT + TROUBLESHOOTING

- Troubleshoot
- Audit logs
- New support request

MANAGE

- Properties
- All VMs
- Artifact repositories
- Virtual networks

VM BASES

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- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

Cost thresholds

PREVIEW

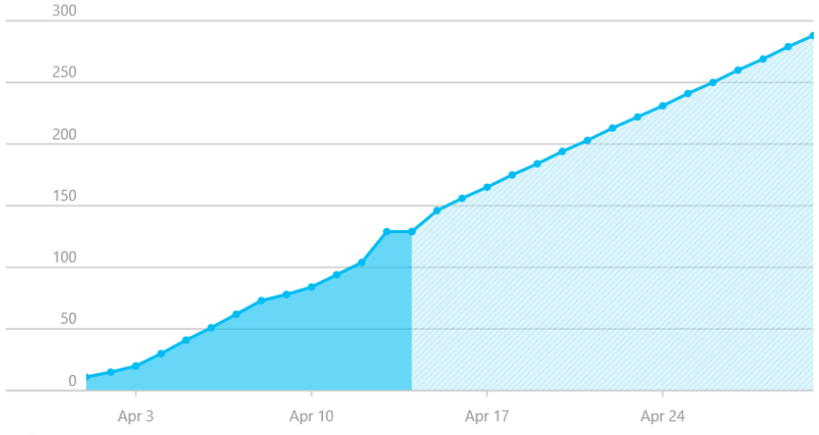
Save | Discard | Feedback

This chart shows the estimated cost of the Lab for the current calendar month usin...
Pay-As-You-Go offer rates.

Enabled

On | Off

Monthly estimated cost trend



ESTIMATED COST 129 USD

PROJECTED COST 288 USD

This estimated cost does not consider the following factors:

- Your offer rates
- Your taxes
- Your discounts
- Your billing currency

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/p

Allowed VM sizes - Microso...

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Allowed VM sizes | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Add tiles

BASE
Fabrikam Dev Box
Windows Server 2012 R2 Datace...
Fabrikam Latest Testing Build 02...
Windows Server 2012 R2 Datace...

Add tiles

Settings

FabrikamDemoLab - PREVIEW

- All VMs
- Artifact repositories
- Virtual networks

VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

- Allowed VM sizes
- Maximum VMs per user
- Total VMs allowed
- Auto shutdown
- Auto start

RESOURCE MANAGEMENT

- Users
- Tags

Allowed VM sizes

PREVIEW

Save | Discard | Feedback

VMs in this Lab are limited to Standard Storage because the Lab was created with Standard Storage. If you want to make use of the Premium Storage support in a VM size, create them in a Lab created with Premium Storage.

Enabled: On | Off

NAME	CORES	MEMORY IN GB
Standard_A0	1	0.75
Standard_A1	1	1.75
✓ Standard_A2	2	3.5
✓ Standard_A3	4	7
✓ Standard_A5	2	14
✓ Standard_A4	8	14
✓ Standard_A6	4	28
Standard_A7	8	56
Basic_A0	1	0.75
Basic_A1	1	1.75
Basic_A2	2	3.5
Basic_A3	4	7
Basic_A4	8	14

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/p

Maximum VMs per user - M...

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Maximum VMs per user | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Add tiles

BASE

- Fabrikam Dev Box
- Windows Server 2012 R2 Datace...
- Fabrikam Latest Testing Build 02...
- Windows Server 2012 R2 Datace...

Add tiles

Settings

FabrikamDemoLab - PREVIEW

- All VMs
- Artifact repositories
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- Cost thresholds

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- Total VMs allowed
- Auto shutdown
- Auto start

RESOURCE MANAGEMENT

- Users
- Tags

Maximum VMs per user

PREVIEW

Save | Discard | Feedback

Enabled

On | Off

Maximum VMs allowed per user

10

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/p

Total VMs allowed - Micros...

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Total VMs allowed | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Add tiles

BASE

- Fabrikam Dev Box
- Windows Server 2012 R2 Datace...
- Fabrikam Latest Testing Build 02...
- Windows Server 2012 R2 Datace...

Add tiles

Settings

FabrikamDemoLab - PREVIEW

- All VMs
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COST POLICIES

- Cost thresholds

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- Maximum VMs per user
- Total VMs allowed
- Auto shutdown
- Auto start

RESOURCE MANAGEMENT

- Users
- Tags

Total VMs allowed

PREVIEW

Save | Discard | Feedback

Enabled

On | Off

Total VMs allowed in this lab

100

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/pr

Auto shutdown - Microsoft ...

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Auto shutdown | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Add tiles

BASE
Fabrikam Dev Box
Windows Server 2012 R2 Datace...
Fabrikam Latest Testing Build 02...
Windows Server 2012 R2 Datace...

Add tiles

Settings

FabrikamDemoLab - PREVIEW

All VMs
Artifact repositories
Virtual networks

VM BASES

Custom images
Marketplace images
Formulas

COST POLICIES

Cost thresholds

VM POLICIES

Allowed VM sizes
Maximum VMs per user
Total VMs allowed
Auto shutdown
Auto start

RESOURCE MANAGEMENT

Users
Tags

Auto shutdown

PREVIEW

Save | Discard | Feedback

This policy applies auto-shutdown to all the lab VMs automatically. To opt-out individual VM... go to the lab VM blade.

Enabled

On | Off

Scheduled shutdown (your local time)

21:00:00

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/pr

Auto start - Microsoft Azure

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Auto start | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Add tiles

BASE

- Fabrikam Dev Box
- Windows Server 2012 R2 Datace...
- Fabrikam Latest Testing Build 02...
- Windows Server 2012 R2 Datace...

Add tiles

Settings

FabrikamDemoLab - PREVIEW

- All VMs
- Artifact repositories
- Virtual networks

VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

- Allowed VM sizes
- Maximum VMs per user
- Total VMs allowed
- Auto shutdown
- Auto start

RESOURCE MANAGEMENT

- Users
- Tags

Auto start

PREVIEW

Save | Discard | Feedback

This policy does not automatically apply auto-start to any lab VMs. To opt-in individual VMs, go to the lab VM blade and enable auto-start.

Allow VMs to be scheduled for automatic start

On | Off

Scheduled start (your local time)

08:00:00

DAY OF WEEK	TIME
Monday	08:00:00
Tuesday	08:00:00
Wednesday	08:00:00
Thursday	08:00:00
Friday	08:00:00
Saturday	08:00:00
Sunday	08:00:00

150%

Set Virtual Networks

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Virtual networks - Microsoft...

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Virtual networks | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Add tiles

TOSTART	AUTOSHUTDOWN	BASE
Opted-out	Opted-in	fabrikam dev box
Opted-out	Opted-in	Windows Server 2012 R2 Datace...
Opted-out	Opted-in	Fabrikam Latest Testing Build 02...
Opted-out	Opted-in	Windows Server 2012 R2 Datace...

Add tiles

Feedback

dd a section

Settings

FabrikamDemoLab - PREVIEW

Filter settings

SUPPORT + TROUBLESHOOTING

- Troubleshoot
- Audit logs
- New support request

MANAGE

- Properties
- All VMs
- Artifact repositories
- Virtual networks

VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

Virtual networks

Virtual networks used in lab - PREVIEW

Add | Feedback

NAME	RESOURCE GROUP	STATUS	DESCRIPTION
DtlFabrikamDemoLabv...	xiaoyingtestnewdemolab	Ready	

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Virtual network - Microsoft ...

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Virtual networks > Virtual network | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Virtual networks

Virtual networks used in lab - PREVIEW

Add | Feedback

NAME	RESOURCE GROUP	STATUS	DESCRIPTION
DtlFabrikamDemoLabv...	xiaoyingtestnewdemolab	Ready	

Virtual network

PREVIEW

Save | Discard

Virtual network

[Select virtual network]

Description

Subnets:

NAME	LAB SUBNET NAME	USE IN VM CREATION	ALLOW PUBLIC IP	MAX VMS PER USER
No results				

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Choose virtual network - Mi...

Preview UI | Microsoft Azure | « Virtual networks > Virtual network > Choose virtual network | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

TUS | DESCRIPTION

dy ...

Virtual network

PREVIEW

Save | Discard

Virtual network

[Select virtual network]

Description

Subnets:

NAME	LAB SUBNET NAME	USE IN VM CREATION	ALLOW PUBLIC IP	MAX VMS PER USER
No results				

Choose virtual network

These are the virtual networks in the selected subscription and location 'West US'.

- asdasdasvNet
  asdasdas
- asdasdvNet
  asdasd
- azurespinn8
  azurespinn8
- DtlaXYSharePointLabvNet
  axysharepointlabrg351...
- DtlccTestLabvNet
  cctestlabrg051004
- DtlContosoTeamLabvNet
  contosoteamlabrg
- DtldemolabvNet
  demolabrg481095
- DtlFabrikamDemoLabvNet
  xiaoyingtestnewdemolab
- DtliourisLabvNet
  iourisRG
- Dtliourisprem2
  iourisprem2RG184883

150%

https://ms.portal.azure.com/#resource/subscriptions/28077388-3f00-4938-9481-e4e87bc59972/resourceGroups/SSW-DevTest-LabRG753812/pi

Virtual network - Microsoft ...

Preview UI | Microsoft Azure | SSW-DevTest-Lab > Settings > Virtual networks > Virtual network | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

l networks

tworks used in lab - PREVIEW

Feedback

NAME	RESOURCE GROUP	STATUS	DESCRIPTION
CUSARMVENT	RGARMERVNET100	Ready	VNet with ExpressRoute enabled
DtlSSW-DevTest-LabvNet	ssw-devtest-labrg753812	Ready	

Virtual network

PREVIEW

Save | Discard

Virtual network

CUSARMVENT

Description

VNet with ExpressRoute enabled

Subnets:

NAME	LAB SUBNET NAME	USE IN VM CREATION	ALLOW PUBLIC IP	MAX VMS PER USER
Subnet-1	Subnet-1	☑	☐	Unrestricted
GatewaySubnet	GatewaySubnet	☐	☐	Unrestricted

150%

Configure Artifact Repositories

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Artifact repositories - Micro...

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Artifact repositories | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Add tiles

BASE

- fabrikam dev box
- fabrikam dev box
- Windows Server 2012 R2 Datace...
- Fabrikam Latest Testing Build 02...
- Windows Server 2012 R2 Datace...

Add tiles

Settings

FabrikamDemoLab - PREVIEW

Filter settings

SUPPORT + TROUBLESHOOTING

- Troubleshoot
- Audit logs
- New support request

MANAGE

- Properties
- All VMs
- Artifact repositories
- Virtual networks

VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

Artifact repositories

PREVIEW

Add | Feedback

ARTIFACT REPOSITORY

- Public Repo
- FabrikamPrivateRepod

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Artifact repositories - Micro...

Preview UI | Microsoft Azure | « Settings > Artifact repositories > Artifact repositories | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Settings
FabrikamDemoLab - PREVIEW

Filter settings

SUPPORT + TROUBLESHOOTING

- Troubleshoot
- Audit logs
- New support request

MANAGE

- Properties
- All VMs
- Artifact repositories
- Virtual networks

VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

Artifact repositories
PREVIEW

Add | Feedback

ARTIFACT REPOSITORY

- Public Repo ...
- FabrikamPrivateRepod ...

Artifact repositories
PREVIEW

Save | Discard

Valid

* Name
FabrikamPrivateRepod

Git Clone URI
https://xiaoying.visualstudio.com/DefaultCollection/_git/azure-devtestlabsdemo

Folder Path
AzureConDemo

Branch
master

Personal Access Token
Token has been saved in our vault. Enter a new token to update.

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Artifact repositories - Micro...

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Artifact repositories | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Settings
FabrikamDemoLab - PREVIEW

Filter settings

SUPPORT + TROUBLESHOOTING
- Troubleshoot
- Audit logs
- New support request

MANAGE
- Properties
- All VMs
- Artifact repositories
- Virtual networks

VM BASES
- Custom images
- Marketplace images
- Formulas

COST POLICIES
- Cost thresholds

VM POLICIES

Artifact repositories
PREVIEW

Add | Feedback

ARTIFACT REPOSITORY

- Public Repo
- FabrikamPrivateRepod

Pin to dashboard
Delete
Disable
Go to repository

https://ms.portal.azure.com/#

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Artifact repositories - Micro...

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Artifact repositories | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Settings
FabrikamDemoLab - PREVIEW

Filter settings

SUPPORT + TROUBLESHOOTING

- Troubleshoot
- Audit logs
- New support request

MANAGE

- Properties
- All VMs
- Artifact repositories
- Virtual networks

VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

Artifact repositories
PREVIEW

Add | Feedback

ARTIFACT REPOSITORY

- Public Repo (Disabled) ...
- FabrikamPrivateRepod ...

Successfully disabled artifact repository Pu... 6:02 PM
Disabling artifact repository Public Repo

150%

Manage VM Bases

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Custom images - Microsoft ...

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Custom images | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Add tiles

TOSHUTDOWN	BASE
Opted-in	fabrikam dev box
Opted-in	fabrikam dev box
Opted-in	Windows Server 2012 R2 Datace...
Opted-in	Fabrikam Latest Testing Build 02...
Opted-in	Windows Server 2012 R2 Datace...

Add tiles

Settings

FabrikamDemoLab - PREVIEW

Filter settings

SUPPORT + TROUBLESHOOTING

- Troubleshoot
- Audit logs
- New support request

MANAGE

- Properties
- All VMs
- Artifact repositories
- Virtual networks

VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

Custom images

Manage Custom images - PREVIEW

Custom Image | Feedback

Custom images

NAME	PUBLISHER	STATUS	DESCRIPTION
Fabrikam Dev Box	xiaoying@microsoft.com	Ready	Fabrikam Dev box environment
Fabrikam Latest Testing...	xiaoying@microsoft.com	Ready	Latest testing build 100219 from VSO
Fabrikam Test Box	xiaoying@microsoft.com	Ready	Fabrikam Test box environment

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Marketplace images - Micr...

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Marketplace images | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Settings
FabrikamDemoLab - PREVIEW

Filter settings

SUPPORT + TROUBLESHOOTING
- Troubleshoot
- Audit logs
- New support request

MANAGE
- Properties
- All VMs
- Artifact repositories
- Virtual networks

VM BASES
- Custom images
- Marketplace images
- Formulas

COST POLICIES
- Cost thresholds

VM POLICIES

Marketplace images
PREVIEW

Save | Discard | Feedback

Allow all Azure Marketplace images as VM bases: Yes | No

Allowed images

Select all

Search to filter items...

	NAME	PUBLISHER	OS TYPE
☑	CoreOS Alpha (1010.1.0)	CoreOS	Linux
☑	JDK 8	Microsoft	Windows
☑	Oracle Database 12c Enterprise Edition	Microsoft	Windows
☑	SQL Server 2014 SP1 Enterprise on Windows Server 2012 R2	Microsoft	Windows
☑	Visual Studio Community 2015 with Azure SDK 2.8 on Windows Server 2012 R2	Microsoft	Windows
☑	Visual Studio Enterprise 2015 with Azure SDK 2.8 on Windows Server 2012 R2	Microsoft	Windows
☑	Windows Server 2012 R2 Datacenter	Microsoft	Windows
☐	BizTalk Server 2013 Enterprise	Microsoft	Windows
☐	BizTalk Server 2013 R2 Enterprise	Microsoft	Windows
☐	BizTalk Server 2013 R2 Standard	Microsoft	Windows
☐	BizTalk Server 2013 Standard	Microsoft	Windows
☐	CentOS-based 6.5	OpenLogic	Linux
☐	CentOS-based 6.6	OpenLogic	Linux
☐	CentOS-based 6.7	OpenLogic	Linux

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Update formula - Microsoft...

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Lab formulas > Update formula | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Settings
FabrikamDemoLab - PREVIEW

Filter settings

SUPPORT + TROUBLESHOOTING
- Troubleshoot
- Audit logs
- New support request

MANAGE
- Properties
- All VMs
- Artifact repositories
- Virtual networks

VM BASES
- Custom images
- Marketplace images
- Formulas

COST POLICIES
- Cost thresholds

VM POLICIES

Lab formulas
PREVIEW

Add | Feedback

Search to filter items...

NAME	STATUS	DESCRIPTION
DevBoxWithCodeEnlist...	Ready	Fabrikam Dev Box with the latest code enlistment and Fiddler 4.

Update formula
Configure settings - PREVIEW

Formula name
DevBoxWithCodeEnlistment

Description
Fabrikam Dev Box with the latest code enlistment and Fiddler 4.

Image
Fabrikam Dev Box

VM Size
Standard_A3

Virtual network
DtlFabrikamDemoLabvNet

Subnet
DtlFabrikamDemoLabSubnet

Public IP address
Yes | No

Artifacts
2 artifact(s) selected

Update

Add tiles

2 R2 Datace...
ing Build 02...
2 R2 Datace...

Add tiles

150%

Add Lab Users

https://ms.portal.azure.com/#blade/Microsoft_Azure_AD/UserAssignmentsBlade/scope/%2Fsubscriptions%2F1b06d457-b995-4369-9370-27720b8

Users - Microsoft Azure

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Users | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Settings
FabrikamDemoLab - PREVIEW

- Artifact repositories
- Virtual networks

VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

- Allowed VM sizes
- Maximum VMs per user
- Total VMs allowed
- Auto shutdown
- Auto start

RESOURCE MANAGEMENT

- Users
- Tags

Users
FabrikamDemoLab

Add | Roles

USER	ROLE	ACCESS
dtl-dev	Owner, Contributor	Inherited

150%

https://ms.portal.azure.com/#blade/Microsoft_Azure_AD/UserAssignmentsBlade/scope/%2Fsubscriptions%2F1b06d457-b995-4369-9370-27720b8

Select a role - Microsoft Az...

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Users > Add access > Select a role | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Settings
FabrikamDemoLab - PREVIEW

- Artifact repositories
- Virtual networks

VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

- Allowed VM sizes
- Maximum VMs per user
- Total VMs allowed
- Auto shutdown
- Auto start

RESOURCE MANAGEMENT

- Users
- Tags

Users
FabrikamDemoLab

Add | Roles

USER	ROLE	ACCESS
dtl-dev	Owner, Contributor	Inherited

Add access
FabrikamDemoLab

1 Select a role
None selected

2 Add users
None selected

OK

Select a role
Add access

- Owner
- Contributor
- Reader
- Azure Service Deploy Release M...
- DevTest Labs User
- User Access Administrator

150%

https://ms.portal.azure.com/#blade/Microsoft_Azure_AD/UserAssignmentsBlade/scope/%2Fsubscriptions%2F1b06d457-b995-4369-9370-27720b8

Add users - Microsoft Azure

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Users > Add access > Add users | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Settings
FabrikamDemoLab - PREVIEW

- Artifact repositories
- Virtual networks

VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

- Allowed VM sizes
- Maximum VMs per user
- Total VMs allowed
- Auto shutdown
- Auto start

RESOURCE MANAGEMENT

- Users
- Tags

Users
FabrikamDemoLab

Add | Roles

USER	ROLE	ACCESS
dtl-dev	Owner, Contributor	Inherited

Add access
FabrikamDemoLab

1 Select a role
DevTest Labs User

2 Add users
None selected

OK

Add users
DevTest Labs User

Invite

User
gxy001@hotmail.com

gxy001@hotmail.com

Selected users
gxy001@hotmail.com

Select

150%

https://ms.portal.azure.com/#blade/Microsoft_Azure_AD/UserAssignmentsBlade/scope/%2Fsubscriptions%2F1b06d457-b995-4369-9370-27720b8

Add access - Microsoft Azure

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Users > Add access | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Settings
FabrikamDemoLab - PREVIEW

- Artifact repositories
- Virtual networks

VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

- Allowed VM sizes
- Maximum VMs per user
- Total VMs allowed
- Auto shutdown
- Auto start

RESOURCE MANAGEMENT

- Users
- Tags

Users
FabrikamDemoLab

Add | Roles

USER	ROLE	ACCESS
dtl-dev	Owner, Contributor	Inherited

Add access
FabrikamDemoLab

1 Select a role
DevTest Labs User

2 Add users
1 user, 0 groups

OK

150%

https://ms.portal.azure.com/#blade/Microsoft_Azure_AD/UserAssignmentsBlade/scope/%2Fsubscriptions%2F1b06d457-b995-4369-9370-27720b8

Users - Microsoft Azure

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > Users | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Settings
FabrikamDemoLab - PREVIEW

- Artifact repositories
- Virtual networks

VM BASES

- Custom images
- Marketplace images
- Formulas

COST POLICIES

- Cost thresholds

VM POLICIES

- Allowed VM sizes
- Maximum VMs per user
- Total VMs allowed
- Auto shutdown
- Auto start

RESOURCE MANAGEMENT

- Users
- Tags

Users
FabrikamDemoLab

Add | Roles

USER	ROLE	ACCESS
dtl-dev	Owner, Contributor	Inherited
gxy001@hotmail.com	DevTest Labs User	Assigned

Added user 6:18 PM

gxy001@hotmail.com was added as DevTest Labs User for FabrikamDemoLab.

150%

Create a VM

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/pr

FabrikamDemoLab - Micros...

Preview UI | Microsoft Azure | FabrikamDemoLab | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

FabrikamDemoLab

PREVIEW

Settings | Refresh | Lab VM | Delete

Essentials

My VMs

Add tiles

NAME	STATUS	AUTOSTART	AUTOSHUTDOWN	BASE
DevBox001	Running	Opted-out	Opted-in	Fabrikam Dev Box
TestBox001	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...
TestLatest0219	Stopped	Opted-out	Opted-in	Fabrikam Latest Testing Build 02...
testVSTSdeploy	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...

Add tiles

Getting started | MSDN forum | Feedback

Add a section

@nelmedia 2017

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Choose a base - Microsoft ...

Preview UI | Microsoft Azure | FabrikamDemoLab > Choose a base | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

FabrikamDemoLab
PREVIEW

Settings | Refresh | Lab VM | Delete

Essentials

My VMs — Add tiles

NAME	STATUS	AUTOSTART	AUTOSHUTDOWN	BASE
DevBox001	Running	Opted-out	Opted-in	fabrikam dev box
TestBox001	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...
TestLatest0219	Stopped	Opted-out	Opted-in	Fabrikam Latest Testing Build 02...
testVSTSdeploy	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...

Add tiles

Getting started | MSDN forum | Feedback

Add a section

Choose a base
PREVIEW

Search to filter items...

NAME	PUBLISHER	OS TYPE
DevBoxWithCodeEnlistment	xiaoying@m...	Windows
Fabrikam Dev Box	xiaoying@m...	Windows
Fabrikam Latest Testing Build 0219	xiaoying@m...	Windows
Fabrikam Test Box	xiaoying@m...	Windows
CoreOS Alpha (1010.1.0)	CoreOS	Linux
JDK 8	Microsoft	Windows
Oracle Database 12c Enterprise Edition	Microsoft	Windows
SQL Server 2014 SP1 Enterprise on Windows Server 2012 R2	Microsoft	Windows
Visual Studio Community 2015 with Azure SDK 2.8 on Windo...	Microsoft	Windows
Visual Studio Enterprise 2015 with Azure SDK 2.8 on Window...	Microsoft	Windows
Windows Server 2012 R2 Datacenter	Microsoft	Windows

Cancel

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Lab VM - Microsoft Azure

Preview UI | Microsoft Azure | FabrikamDemoLab > Choose a base > Lab VM | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

Choose a base
PREVIEW

Search to filter items...

NAME	PUBLISHER	OS TYPE
DevBoxWithCodeEnlistment	xiaoying@m...	Windows
Fabrikam Dev Box	xiaoying@m...	Windows
Fabrikam Latest Testing Build 0219	xiaoying@m...	Windows
Fabrikam Test Box	xiaoying@m...	Windows
CoreOS Alpha (1010.1.0)	CoreOS	Linux
JDK 8	Microsoft	Windows
Oracle Database 12c Enterprise Edition	Microsoft	Windows
SQL Server 2014 SP1 Enterprise on Windows Server 2012 R2	Microsoft	Windows
Visual Studio Community 2015 with Azure SDK 2.8 on Windo...	Microsoft	Windows
Visual Studio Enterprise 2015 with Azure SDK 2.8 on Window...	Microsoft	Windows
Windows Server 2012 R2 Datacenter	Microsoft	Windows

Cancel

Lab VM
Configure settings - PREVIEW

Lab VM Name
DevBox002

* Image
Fabrikam Dev Box

VM Size
Standard_A3

* Virtual network
DtlFabrikamDemoLabvNet

* Subnet
DtlFabrikamDemoLabSubnet

Public IP address
Yes | No

Artifacts
2 artifact(s) selected

View ARM template

Create

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Choose a size - Microsoft A...

Preview UI | Microsoft Azure | FabrikamDemoLab > Choose a base > Lab VM > Choose a size | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

	PUBLISHER	OS TYPE
	xiaoying@m...	Windows
	xiaoying@m...	Windows
	xiaoying@m...	Windows
	xiaoying@m...	Windows
	CoreOS	Linux
	Microsoft	Windows
ion	Microsoft	Windows
Windows Server 2012 R2	Microsoft	Windows
Azure SDK 2.8 on Windo...	Microsoft	Windows
Azure SDK 2.8 on Window...	Microsoft	Windows
r	Microsoft	Windows

Lab VM

Configure settings - PREVIEW

Lab VM Name

DevBox002

* Image

Fabrikam Dev Box

VM Size

Standard_A3

* Virtual network

DtlFabrikamDemoLabvNet

* Subnet

DtlFabrikamDemoLabSubnet

Public IP address

Yes | No

Artifacts

2 artifact(s) selected

View ARM template

Create

Choose a size

Browse the available sizes and their features

	A2 Standard	A3 Standard	A4 Standard	A5 Standard	A6 Standard
Cores	2	4	8	2	4
GB	3.5	7	14	14	28
Data disks	4	8	16	4	8
Max IOPS	4x500	8x500	16x500	4x500	8x500
Load balancing	Load balancing	Load balancing	Load balancing	Load balancing	Load balancing
Auto scale	Auto scale	Auto scale	Auto scale	Auto scale	Auto scale
USD/MONTH (ESTIMATED)	133.92	267.84	535.68		

Select

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/p

Lab VM - Microsoft Azure

Preview UI | Microsoft Azure | FabrikamDemoLab > Choose a base > Lab VM > Lab VM | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

	PUBLISHER	OS TYPE
	xiaoying@m...	Windows
	xiaoying@m...	Windows
	xiaoying@m...	Windows
	xiaoying@m...	Windows
	CoreOS	Linux
	Microsoft	Windows
ion	Microsoft	Windows
Windows Server 2012 R2	Microsoft	Windows
Azure SDK 2.8 on Windo...	Microsoft	Windows
Azure SDK 2.8 on Window...	Microsoft	Windows
er	Microsoft	Windows

Lab VM
Configure settings - PREVIEW

Lab VM Name
DevBox002

* Image
Fabrikam Dev Box

VM Size
Standard_A3

* Virtual network
DtlFabrikamDemoLabvNet

* Subnet
DtlFabrikamDemoLabSubnet

Public IP address
Yes | No

Artifacts
2 artifact(s) selected

View ARM template

Create

Lab VM
Virtual network - PREVIEW

DtlFabrikamDemoLabvN
xiaoyingtestnewdemolab

VNET with Express Route.

azurespinn8
azurespinn8

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

Selected Artifacts - Microso...

Preview UI | Microsoft Azure | « Choose a base > Lab VM > Add Artifacts > Selected Artifacts | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

	PUBLISHER	OS TYPE
	xiaoying@m...	Windows
	xiaoying@m...	Windows
	xiaoying@m...	Windows
	xiaoying@m...	Windows
	CoreOS	Linux
	Microsoft	Windows
ion	Microsoft	Windows
Windows Server 2012 R2	Microsoft	Windows
Azure SDK 2.8 on Windo...	Microsoft	Windows
Azure SDK 2.8 on Window...	Microsoft	Windows
er	Microsoft	Windows

Lab VM

Configure settings - PREVIEW

Lab VM Name

DevBox002

* Image

Fabrikam Dev Box

VM Size

Standard_A3

* Virtual network

azurespinn8

* Subnet

default

Public IP address

Yes | No

Artifacts

2 artifact(s) selected

View ARM template

Create

Add Artifacts

PREVIEW

Feedback

2 artifact(s) selected

Search to filter items...

NAME	DESCRIPTION	REPOSITORY
Fabrikam Dashboard	VSO drop of Dashboard	FabrikamPrivateRepod
Fabrikam Finance Interface	Deploy interface to SAP	FabrikamPrivateRepod
7-Zip	Installs 7-Zip using the Ch...	Public Repo
Atom	Installs Atom using the Ch...	Public Repo
Azure PowerShell	Installs the latest version...	Public Repo
Chef Client	Downloads and installs th...	Public Repo
Chrome	Installs Chrome using the...	Public Repo
Clone a git repository	Installs git and clones spe...	Public Repo
Create a web shortcut	Creates a shortcut to an i...	Public Repo
Download File from URI	Downloads a file from a U...	Public Repo
Download VSTS Drop and...	Downloads the latest buil...	Public Repo
Enable local administrators	Enables local administrato...	Public Repo
Fiddler4	Installs Fiddler4 using the...	Public Repo

OK

Selected Artifacts

PREVIEW

NAME
Fiddler4
Clone a git repository

OK

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

View Azure Resource Mana...

Preview UI | Microsoft Azure | « Choose a base > Lab VM > View Azure Resource Manager Template | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

	PUBLISHER	OS TYPE
	xiaoying@m...	Windows
	xiaoying@m...	Windows
	xiaoying@m...	Windows
	xiaoying@m...	Windows
	CoreOS	Linux
	Microsoft	Windows
ion	Microsoft	Windows
Windows Server 2012 R2	Microsoft	Windows
Azure SDK 2.8 on Windo...	Microsoft	Windows
Azure SDK 2.8 on Window...	Microsoft	Windows
er	Microsoft	Windows

Lab VM

Configure settings - PREVIEW

Lab VM Name

DevBox002

* Image

Fabrikam Dev Box

VM Size

Standard_A3

* Virtual network

azurespinn8

* Subnet

default

Public IP address

Yes | No

Artifacts

2 artifact(s) selected

View ARM template

Create

View Azure Resource Manager Template

Copy and save the template to create the same Lab VM later - PREVIEW

```
1  {
2    "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json",
3    "contentVersion": "1.0.0.0",
4    "parameters": {
5      "name": {
6        "type": "string",
7        "defaultValue": "DevBox002"
8      },
9      "labName": {
10       "type": "string",
11       "defaultValue": "FabrikamDemoLab"
12     },
13     "userName": {
14       "type": "string",
15       "defaultValue": ""
16     },
17     "size": {
18       "type": "string",
19       "defaultValue": "Standard_A3"
20     },
21     "password": {
22       "type": "securestring"
23     },
24     "Clone_a_git_repository.GitRepoURI": {
25       "type": "string",
26       "defaultValue": "https://xiaoying.visualstudio.com/DefaultCollection/_git/azure-devtestlabsd
27     },
28     "Clone_a_git_repository.Destination": {
29       "type": "string",
30       "defaultValue": "C:\\Repos"
```

OK

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

FabrikamDemoLab - Micros...

Preview UI | Microsoft Azure | FabrikamDemoLab | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

FabrikamDemoLab

PREVIEW

Settings | Refresh | Lab VM | Delete

Essentials

Creating Lab VM DevBox002 2:59 PM

My VMs

Add tiles

	NAME	STATUS	AUTOSTART	AUTOSHUTDOWN	BASE	
	DevBox001	Running	Opted-out	Opted-in	fabrikam dev box	...
	TestBox001	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...	...
	TestLatest0219	Stopped	Opted-out	Opted-in	Fabrikam Latest Testing Build 02...	...
	testVSTSdeploy	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...	...

Add tiles

Getting started | MSDN forum | Feedback

Add a section

150%

Manage Existing VMs

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourcegroups/xiaoyingtestnewdemolab/provid

DevBox001 - Microsoft Azu...

Preview UI | Microsoft Azure | FabrikamDemoLab > DevBox001 | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

FabrikamDemoLab
PREVIEW

Settings | Refresh | Lab VM | Delete

Essentials

My VMs — Add tiles

NAME	STATUS	AUTOSTART	AUTOSHUTDOWN	BASE
DevBox001	Running	Opted-out	Opted-in	fabrikam dev box
DevBox002	Running	Opted-out	Opted-in	fabrikam dev box
TestBox001	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...
TestLatest0219	Stopped	Opted-out	Opted-in	Fabrikam Latest Testing Build 02...
testVSTSdeploy	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...

Add tiles

Getting started | MSDN forum | Feedback

Add a section

DevBox001
DevTest Labs Virtual Machine - PREVIEW

Settings | Connect | Start | Stop | Delete | Artifacts

Running

Essentials

Add tiles

Enable/Disable Schedules

	OPT-IN	TIME	NOTES
Auto-start*	☐	08:00	Mon Tue Wed Thu Fri
Auto-shutdown*	☑	21:00	

* The scheduled time of Auto-start and Auto-shutdown are defined in the lab settings.

Add a section

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourcegroups/xiaoyingtestnewdemolab/provid

DevBox001 - Microsoft Azu...

Preview UI | Microsoft Azure | FabrikamDemoLab > DevBox001 | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

FabrikamDemoLab
PREVIEW

Settings | Refresh | Lab VM | Delete

Essentials

My VMs | Add tiles

NAME	STATUS	AUTOSTART	AUTOSHUTDOWN	BASE
DevBox001	Running	Opted-out	Opted-in	fabrikam dev box
DevBox002	Running	Opted-out	Opted-in	fabrikam dev box
TestBox001	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...
TestLatest0219	Stopped	Opted-out	Opted-in	Fabrikam Latest Testing Build 02...
testVSTSdeploy	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...

Add tiles

Getting started | MSDN forum | Feedback

Add a section

DevBox001
DevTest Labs Virtual Machine - PREVIEW

Updating virtual machine settings 3:04 PM

Settings | Connect | Start | Stop | Delete | Artifacts

Running

Essentials

Enable/Disable Schedules

	OPT-IN	TIME	NOTES
Auto-start*	☑	08:00	Mon Tue Wed Thu Fri
Auto-shutdown*	☑	21:00	

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Add a section

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourcegroups/xiaoyingtestnewdemolab/provid

Apply Artifacts - Microsoft ...

Preview UI | Microsoft Azure | FabrikamDemoLab > DevBox001 > Apply Artifacts | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

DevBox001

DevTest Labs Virtual Machine - PREVIEW

Settings | Connect | Start | Stop | Delete | Artifacts

Running

Essentials

Add tiles

Enable/Disable Schedules

	OPT-IN	TIME	NOTES
Auto-start*	☑	08:00	Mon Tue Wed Thu Fri
Auto-shutdown*	☑	21:00	

* The scheduled time of Auto-start and Auto-shutdown are defined in the lab settings.

Add a section

Add tiles

ASE

- abrikam dev box
- abrikam dev box
- Windows Server 2012 R2 Datace...
- abrikam Latest Testing Build 02...
- Windows Server 2012 R2 Datace...

Add tiles

Apply Artifacts

DevBox001 - PREVIEW

Feedback

Search to filter items...

NAME	DESCRIPTION	REPOSITORY
Fabrikam Dashboard	VSO drop of Dashboard	FabrikamPrivateRepod
Fabrikam Finance Interface	Deploy interface to SAP	FabrikamPrivateRepod
7-Zip	Installs 7-Zip using the Ch...	Public Repo
Atom	Installs Atom using the Ch...	Public Repo
Azure PowerShell	Installs the latest version...	Public Repo
Chef Client	Downloads and installs th...	Public Repo
Chrome	Installs Chrome using the...	Public Repo
Clone a git repository	Installs git and clones spe...	Public Repo
Create a web shortcut	Creates a shortcut to an i...	Public Repo
Download File from URI	Downloads a file from a U...	Public Repo
Download VSTS Drop and...	Downloads the latest buil...	Public Repo
Enable local administrators	Enables local administrato...	Public Repo
Fiddler4	Installs Fiddler4 using the...	Public Repo
Firefox	Installs Firefox using the C...	Public Repo

Apply

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourcegroups/xiaoyingtestnewdemolab/provid

Settings - Microsoft Azure

Preview UI | Microsoft Azure | FabrikamDemoLab > DevBox001 > Settings | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

DevBox001

DevTest Labs Virtual Machine - PREVIEW

Settings | Connect | Start | Stop | Delete | Artifacts

Running

Essentials

Add tiles

Enable/Disable Schedules

	OPT-IN	TIME	NOTES
Auto-start*	☑	08:00	Mon Tue Wed Thu Fri
Auto-shutdown*	☑	21:00	

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Add a section

Add tiles

ASE

abrikam dev box

abrikam dev box

Windows Server 2012 R2 Datace...

abrikam Latest Testing Build 02...

Windows Server 2012 R2 Datace...

Add tiles

Settings

PREVIEW

SUPPORT + TROUBLESHOOTING

- Troubleshoot
- Audit logs
- New support request

ADVANCED

- Create custom image
- Create formula

RESOURCE MANAGEMENT

- Tags

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https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourcegroups/xiaoyingtestnewdemolab/provid

Custom Image - Microsoft ...

Preview UI | Microsoft Azure | FabrikamDemoLab > DevBox001 > Settings > Custom Image | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

DevBox001

DevTest Labs Virtual Machine - PREVIEW

Settings | Connect | Start | Stop | Delete | Artifacts

Running

Essentials

Add tiles

Enable/Disable Schedules

	OPT-IN	TIME	NOTES
Auto-start*	☑	08:00	Mon Tue Wed Thu Fri
Auto-shutdown*	☑	21:00	

* The scheduled time of Auto-start and Auto-shutdown are defined in the lab settings.

Add a section

Settings

PREVIEW

Filter settings

SUPPORT + TROUBLESHOOTING

- Troubleshoot
- Audit logs
- New support request

ADVANCED

- Create custom image
- Create formula

RESOURCE MANAGEMENT

- Tags

Custom Image

Create Custom Image - PREVIEW

Name

DevBox001

Description

* I have run sysprep on the virtual machine.

Yes | No

* Run sysprep on virtual machine.

Yes | No

OK

150%

https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourcegroups/xiaoyingtestnewdemolab/provid

Create formula - Microsoft ...

Preview UI | Microsoft Azure | FabrikamDemoLab > DevBox001 > Settings > Create formula | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

DevBox001

DevTest Labs Virtual Machine - PREVIEW

Settings | Connect | Start | Stop | Delete | Artifacts

Running

Essentials

Add tiles

Enable/Disable Schedules

	OPT-IN	TIME	NOTES
Auto-start*	☑	08:00	Mon Tue Wed Thu Fri
Auto-shutdown*	☑	21:00	

* The scheduled time of Auto-start and Auto-shutdown are defined in the lab settings.

Add a section

Settings

PREVIEW

Filter settings

SUPPORT + TROUBLESHOOTING

- Troubleshoot
- Audit logs
- New support request

ADVANCED

- Create custom image
- Create formula

RESOURCE MANAGEMENT

- Tags

Create formula

PREVIEW

Name

Description

Create a formula to capture the settings used to create this virtual machine.

OK

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https://ms.portal.azure.com/#resource/subscriptions/1b06d457-b995-4369-9370-27720b841b20/resourceGroups/xiaoyingTestNewDemoLab/provi

All VMs - Microsoft Azure

Preview UI | Microsoft Azure | FabrikamDemoLab > Settings > All VMs | Report bug | Search resources | xiaoying@microsoft.c... MICROSOFT

amDemoLab

sh | Lab VM | Delete

Add tiles

ME	STATUS	AUTOSTART	AUTOSHUTDOWN	BASE
vBox001	Running	Opted-in	Opted-in	fabrikam dev box
vBox002	Running	Opted-out	Opted-in	fabrikam dev box
tBox001	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...
tLatest0219	Stopped	Opted-out	Opted-in	Fabrikam Latest Testing Build 02...
tVSTSdeploy	Stopped	Opted-out	Opted-in	Windows Server 2012 R2 Datace...

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Settings
FabrikamDemoLab - PREVIEW

Filter settings

SUPPORT + TROUBLESHOOTING
- Troubleshoot
- Audit logs
- New support request

MANAGE
- Properties
- All VMs
- Artifact repositories
- Virtual networks

VM BASES
- Custom images
- Marketplace images
- Formulas

COST POLICIES
- Cost thresholds

VM POLICIES

All VMs
PREVIEW

All VMs

NAME	STATUS	AUTOSTA...	AUTOSHU...	BASE
DevBox001	Runni...	Opted...	Opted...	fabrikam dev box
DevBox002	Runni...	Opted...	Opted...	fabrikam dev box
TestBox001	Stopp...	Opted...	Opted...	Windows Server 2012...
TestLatest0219	Stopp...	Opted...	Opted...	Fabrikam Latest Testi...
testVSTSdeploy	Stopp...	Opted...	Opted...	Windows Server 2012...

150%