

Building a resilient IaaS architecture
Before the hands-on lab setup guide
May 2022

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Building a resilient IaaS architecture before the hands-on lab setup guide

Requirements

- Microsoft Azure Subscription
- LabVM virtual machine deployed using the instructions below. The VM is pre-installed with various tools and files you will use during this lab.
- Contoso sample application, also deployed using the instructions below.

Before the hands-on lab

Duration: 25 minutes

In this exercise, you deploy a Lab VM needed to complete the rest of your lab.

Task 1: Create the LabVM Virtual Machine

In this task, you will use an Azure Resource Manager template to deploy the LabVM virtual machine. This machine will be pre-configured with Visual Studio 2019 Community Edition, has Azure PowerShell pre-installed, and is pre-loaded with any additional files which you will use during the lab.

1. Select the **Deploy to Azure** button below to open the Azure portal and launch the template deployment for the LabVM. Log in to the Azure portal using your subscription credentials if prompted to do so.



Note: If you attempt to deploy the template above and it fails, stating "requested size for resource <resourceID> is currently not available in location", you can choose a different VM size from the first screen of the deployment.



2. Complete the Custom deployment blade as follows:

- Resource Group: **(Create new) LabRG**
- Location: **Choose a location close to you.**

Select **Review + Create** and then **Create** to deploy the resources.

Custom deployment

Deploy from a custom template

Basics Review + create**Template** Customized template 
5 resources Edit template Edit parameters Visualize**Project details**

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Resource group * ⓘ

1

(New) LabRG

[Create new](#)**Instance details**

Region * ⓘ

2

East US 2

Sku Size VM ⓘ

D2s_v3

Admin Username ⓘ

demouser

Admin Password ⓘ

.....

Student Files Url

<https://github.com/microsoft/MCW-Building-a-resilient-iaas-architect...>

Student Files Destination

C:\HOL

3

Review + create

< Previous

Next : Review + create >

You should proceed to the next task **without** waiting for the deployment to complete to save time. The deployment can take up to 30 minutes to deploy the resources.

Task 2: Deploy the Contoso sample application

In this task, you will use an Azure Resource Manager template to deploy the Contoso sample application, which you will use in this lab.

1. Select the **Deploy to Azure** button below to open the Azure portal and launch the template deployment for the Contoso sample application. Log in to the Azure portal using your subscription credentials if prompted to do so.



Note: If you attempt to deploy the template above and it fails, stating "requested size for resource *<resourceID>* is currently not available in location", you can choose a different VM size from the first screen of the deployment.


2. Complete the Custom deployment blade as follows:

- Resource Group: **(Create new) ContosoRG1**
- Location: **Choose a location close to you**

Select **Review + Create** and then **Create** to deploy the resources. It usually takes around 20 minutes to deploy the resources.

Custom deployment

Deploy from a custom template

Basics Review + create**Template****Customized template** 
6 resources

Edit template



Edit parameters



Visualize

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ



Resource group * ⓘ

1

(New) ContosoRG1

[Create new](#)**Instance details**

Region * ⓘ

2

East US 2

Sku Size VM ⓘ

D2s_v3

Admin Username ⓘ

demouser

Admin Password ⓘ

.....

Domain Name ⓘ

contoso.com

Base Uri

<https://raw.githubusercontent.com/microsoft/MCW-Building-a-resilient-architecture/master/Hands-on%20lab/Resources/>

Resource Folder

master/Hands-on%20lab/Resources/

3

Review + create

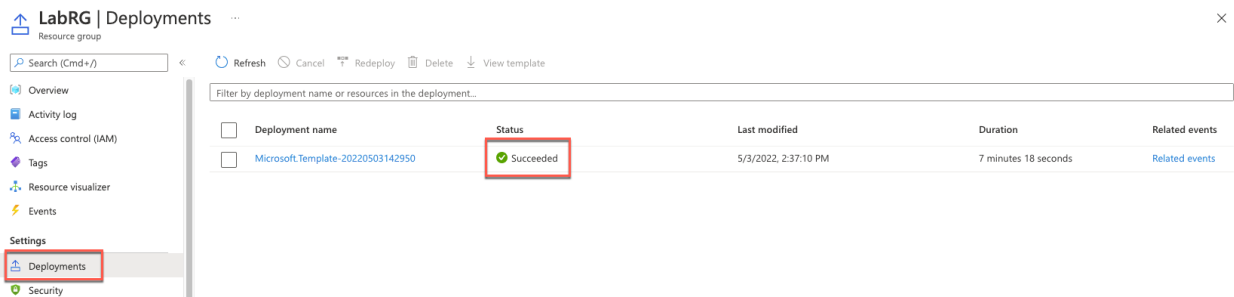
< Previous

Next : Review + create >

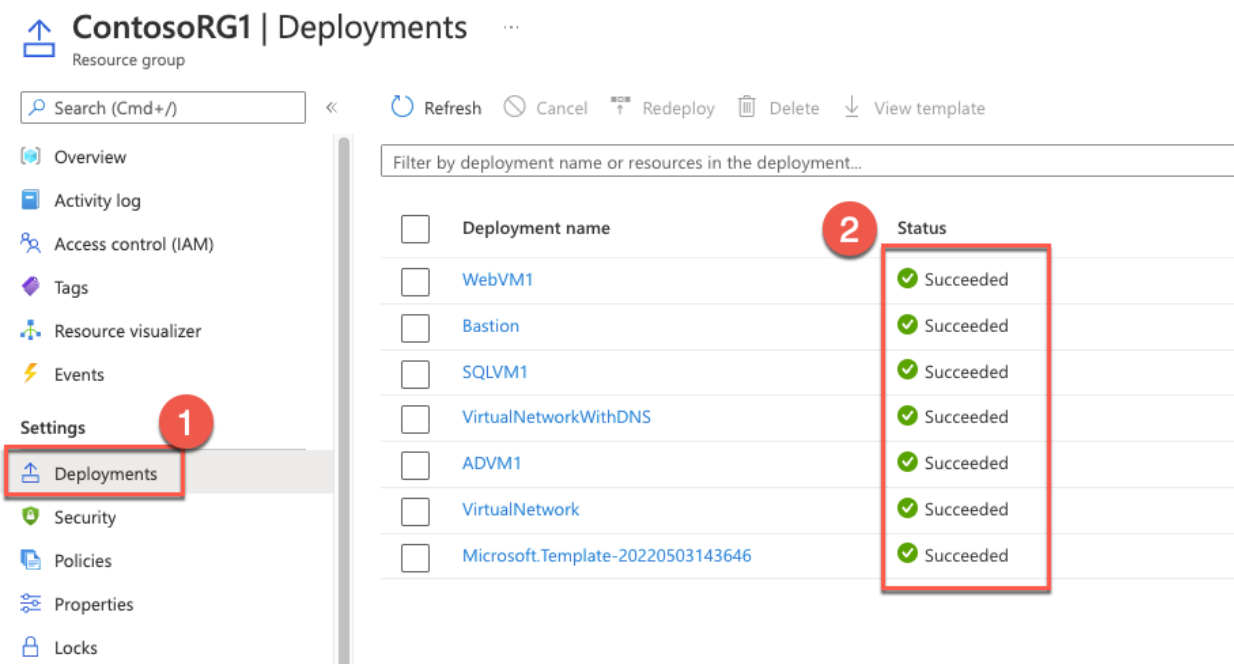
Task 3: Wait for deployments to complete, and validate

In this task, you will verify that the LabVM and Contoso sample application have been deployed successfully.

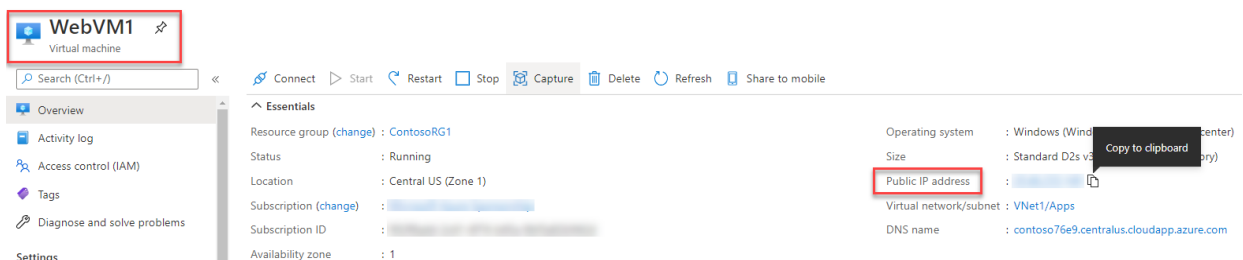
1. You can check the LabVM deployment status by navigating to the **LabRG** resource group, selecting **Deployments** in the resource group left-nav, and checking the status of the 'Microsoft.Template' deployment. Ensure the template deployment status is **Succeeded** before proceeding to the hands-on lab guide.



2. You can check the Contoso application deployment status by navigating to the **ContosoRG1** resource group, selecting **Deployments** in the resource group left-nav, and checking the status of the deployments. Make sure the deployment status is **Succeeded** for all templates before proceeding to the hands-on lab guide.



3. Once the Contoso application deployment is successful, validate the application by opening the **WebVM1** virtual machine, copying the public IP address, and navigating to the public IP address in your browser.





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Manage Policy Holders

Details Matter, so make sure to capture them all!

[Go Now »](#)

4. Select the **Current Policy Offerings** button to review the policy list. This verifies that the web tier can connect to the database.

Contoso Insurance  Home About Contact				
Index				
Create New				
Name	Description	DefaultDeductible	DefaultOutOfPocketMax	
Bronze	Basic coverage	1000.00	3000.00	Edit Details Delete
Silver	Basic+ coverage	800.00	2500.00	Edit Details Delete
Gold	Advanced coverage	500.00	2000.00	Edit Details Delete
Platinum	Extensive coverage	250.00	1000.00	Edit Details Delete

Summary

In these lab preparation steps, you set up a lab virtual machine, which includes Visual Studio 2019 Community Edition, Azure PowerShell, and other files used during this lab. You also deployed and verified the Contoso sample application, which you will use in this lab.

You should follow all steps provided *before* attending the hands-on lab.