

Create a VM with a Template

Introduction

In this walkthrough, we will deploy a virtual machine with a QuickStart template and examine monitoring capabilities.

Task 1: Explore the gallery and locate a template

In this task, we will browse the Azure QuickStart gallery and deploy a template to create a virtual machine.

1- Sign into the Azure portal <https://portal.azure.com> at the following link using the username and password provided by the instructor.

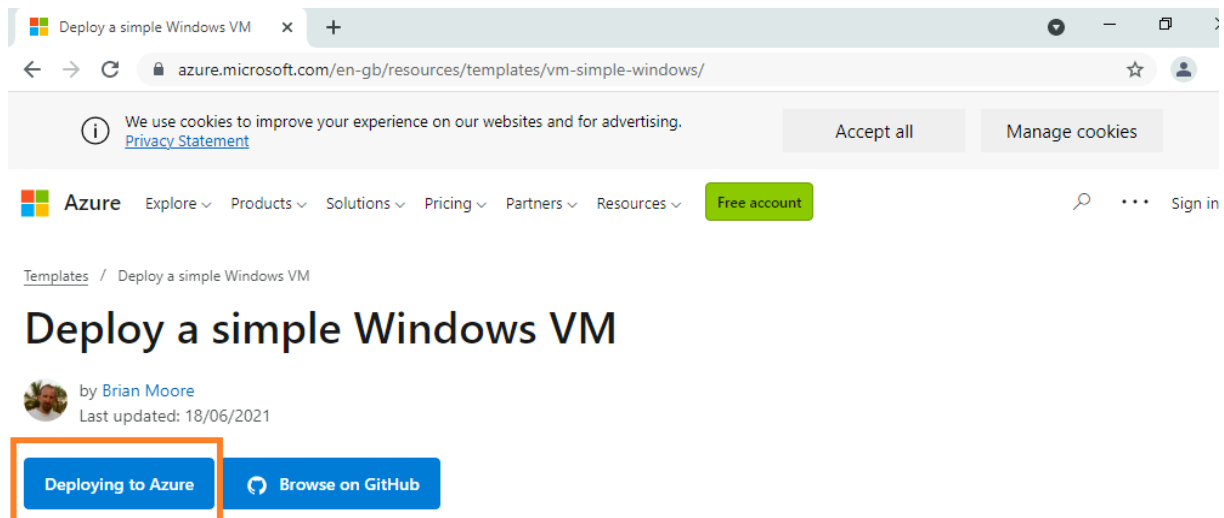
2- In a new tab, access the Azure Quickstart Templates gallery at the following link. In the gallery you will find a number of popular and recently updated templates. These templates work with both Azure resources and popular software packages.

<https://azure.microsoft.com/resources/templates?azure-portal=true>

3- Browse through the many different types of templates that are available. Are there any templates that are of interest to you?

4- Search for or directly access the Deploy a simple Windows VM template.

<https://azure.microsoft.com/en-gb/resources/templates/vm-simple-windows/>

The screenshot shows a web browser window with the URL 'azure.microsoft.com/en-gb/resources/templates/vm-simple-windows/'. The page has a navigation bar with the Azure logo and links for Explore, Products, Solutions, Pricing, Partners, Resources, and a Free account button. Below the navigation bar, there is a breadcrumb trail 'Templates / Deploy a simple Windows VM'. The main heading is 'Deploy a simple Windows VM'. Below the heading, it says 'by Brian Moore' and 'Last updated: 18/06/2021'. There are two buttons: 'Deploying to Azure' (highlighted with an orange border) and 'Browse on GitHub'.

This template allows you to deploy a simple Windows VM using a few different options for the Windows version, using the latest patched version. This will deploy an A2 size VM in the resource group location and return the FQDN of the VM.

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Note: The Deploy to Azure button enables you to deploy the template directly to the Azure portal. Notice this template only prompts you for a small set of configuration parameters.

5- Click the Deploy to Azure button. Your browser session will be automatically redirected to the Azure portal.

6- If prompted, sign into the Azure subscription you want to use in this lab.

7- Click the Edit template. The Resource Manager template format uses the JSON format. Review the parameters and variables. Then locate the parameter for the virtual machine name. Change the name to myVMTemplate. Save your changes. You are returned to the Custom deployment blade in the Azure portal.

8- Configure the template parameters (replace xxxx in the DNS label prefix with letters and digits such that the label is globally unique). Leave the defaults for everything else.

Setting	Value
Subscription	CloudShare2
Resource group	myRGTemplate-2ZMDVLQHRH
Location	(US) East US
Admin username	azureuser
Admin password	Pa\$Sw0rd1234
DNS label prefix	myvmtemplatexxxx
Windows OS version	2019-Datacenter
Vm Size	Standard_D2s_v3

9- Click Review + Create then select Create.

portal.azure.com/#create/Microsoft.Template

Microsoft Azure Search resources, services, and docs (G+/I)

Home >

Deploy a simple Windows VM

Azure quickstart template

Validation Passed

Basics Review + create

Summary

vm-simple-windows
6 resources

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10- Monitor your deployment.

Task 2: Verify and monitor your virtual machine deployment

In this task, we will verify the virtual machine deployed correctly.

1- From the All services blade, search for and select Virtual machines.

2- Ensure your new virtual machine was created.

3- Select your virtual machine and on the Overview pane scroll down to view monitoring data.

Note: The monitoring time frame can be adjusted from one hour to 30 days.

4- Review different charts that are provided including CPU (average), Network (total), and Disk bytes (total).

5- Click on any chart. Note that you can Add metric and change the chart type. As you have time, experiment.

6- Return to the Overview blade.

7- Click on the Activity log (left pane). Activity logs record such events as creation or modification of resources.

8- Click Add filter, and experiment with searching for different event types and operations.

Congratulations! You have now completed this lab. You can safely end your lab.