# ONLINE LAB: Create and Deploy an ARM Template

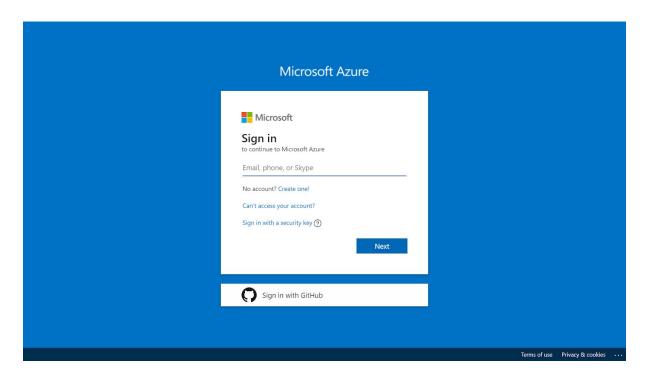
# Your Challenge

- You are to go through the steps to create a VM, but not create it
- Download the ARM template at the end of the process (and cancel the creation)
- Upload the ARM template to Azure
- Deploy the ARM template
- Clean up all of your resources created after you're done

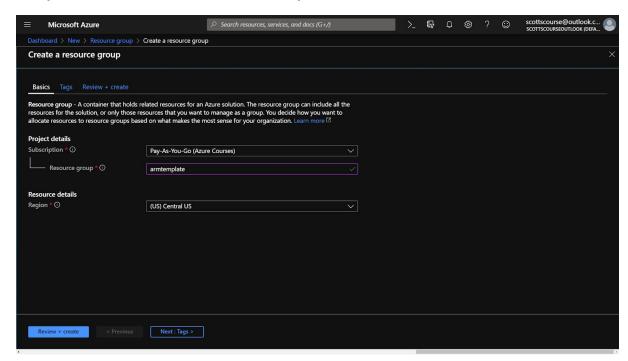
## Solution

# Step 1 Sign Into Azure

Sign into Azure at <a href="https://portal.azure.com/">https://portal.azure.com/</a>

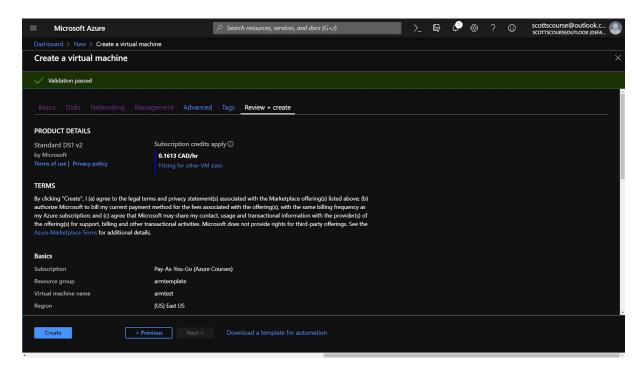


#### Step 2 Create Resource Group



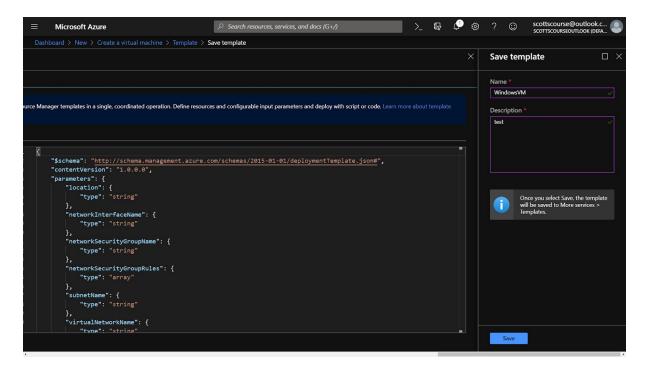
1. Create a new resource group named **armtemplate**.

#### Step 3 Create a VM

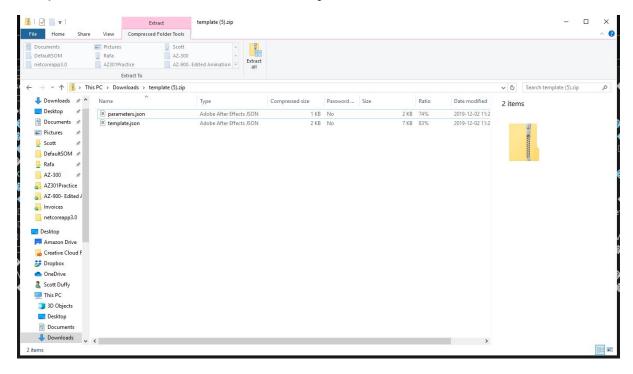


- 1. Navigate to the **armtemplate** resource group
- 2. Add a resource to it

- 3. Create a Windows Server 2016 Datacenter VM, with the name armtest
- 4. Create it in the **East US 2** region
- 5. Accept the defaults to all steps until the final screen
- 6. On the Review + Create screen, click **Download a template for automation**
- 7. Navigate to the **Parameters** tab, and click **Download.** This will download a file named template.zip to your local machine.
- 8. Click Add to Library and give the template a name like "WindowsVM" and the description test.
- 9. Click **Save** to save the template to the template library.
- 10. Click the X at the top right to cancel the template editing.
- 11. Click the X at the top right to cancel the VM creation.



# Step 3b Extract the Parameters.json

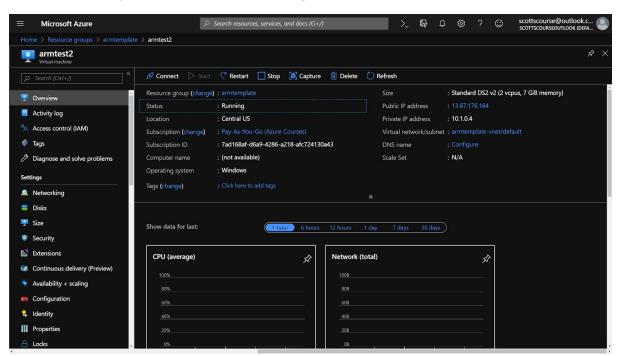


1. From the template.zip file on your local machine (or whatever name it was given), extract the parameters.json from that compressed folder

## Step 4 Edit the Parameters

- 1. From the home page, navigate to All Services
- 2. Search for "Templates"
- 3. Choose the windowsvm template from the list
- 4. Click Deploy.
- 5. Click Edit parameters.
- 6. Click Load file.
- 7. Choose the **parameters.json file** extracted from the downloaded template.
- 8. From the parameters file, edit the following values:
  - a. Change the virtualMachineName parameter to "armtest2".
  - b. Change the virtualMachineSize parameter to "Standard\_DS2\_v2"
  - c. Change the **location** to centralus
  - d. Click Save
- 9. Choose the armtemplate resource group.
- 10. Enter the Admin Password
- 11. **Agree** to the terms and conditions
- 12. Click Purchase.
- 13. Wait for the deployment to complete.

#### Step 5 Verify the VM is Running



- 1. Find the VM armtest2 in the armtemplate resource group
- 2. Go in and verify the status is running

# Step 6 Clean up

- 1. In the navigation list, click **Resource groups**.
- 2. Click **armtemplate** to open the resource group.
- 3. Click **Delete resource group** to delete the resource group.
- 4. On the **Are you sure you want to delete** blade, type the resource group name: **armtemplate**.
- 5. Click **Delete** to delete the resource group.

© 2019 Scott J Duffy and SoftwareArchitect.ca, all rights reserved