

**Module 1 Lab: Azure Intro & Azure SQL**

Template Version: 2.0

**Estimated Time**

45 minutes

**Objectives**

At the end of this lab, you will be able to:

* Understand Subscriptions, Resource Groups, and Resources in the Azure Portal.
* Find your resources and customize your Portal.
* Deploy an Azure SQL Server and Database.
* Add firewall exceptions to your SQL Server and Database.
* Deploy an Azure Container Registry.
* Deploy a VSTS account.

**Logon Information**

Please use the Azure Pass provided to you for this lab. Your VM credentials are listed for later use:

* VM Username: super
* VM Password: P@ssw0rd123!

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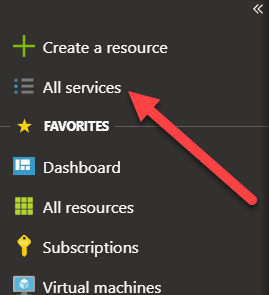
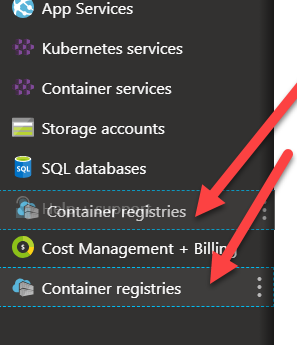
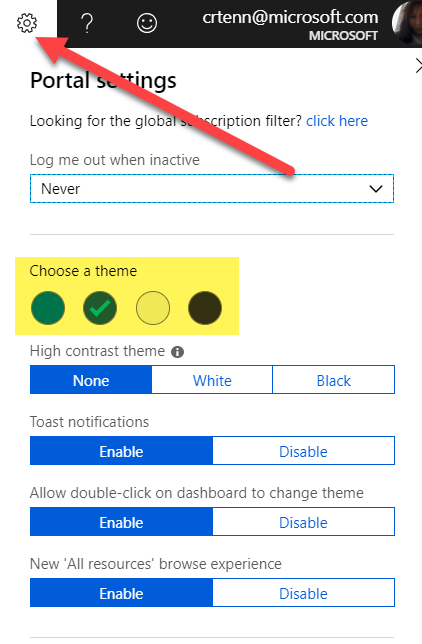
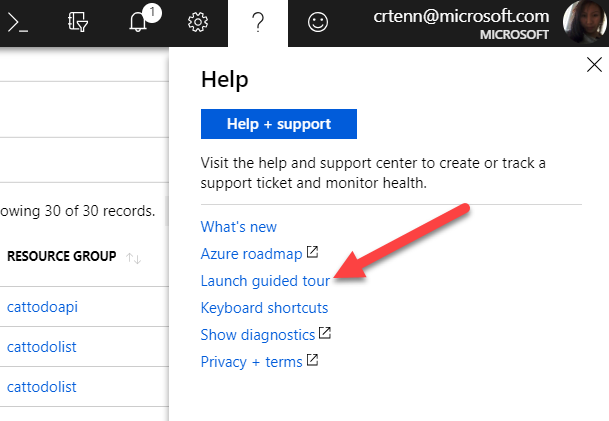
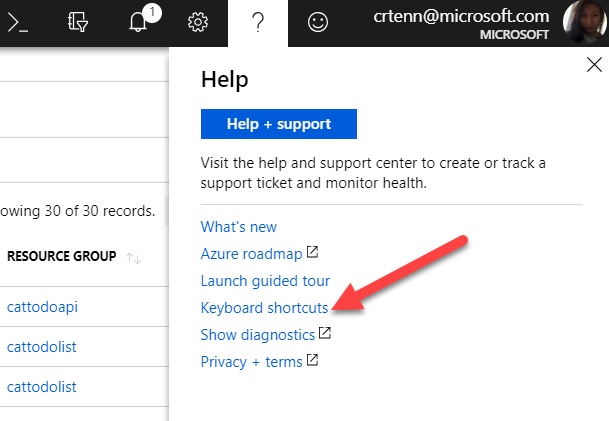
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Module 1 Lab: Azure Intro and Azure SQL

Exercise 1: Azure Initial Walkthrough

This exercise shows how to use your Azure account.

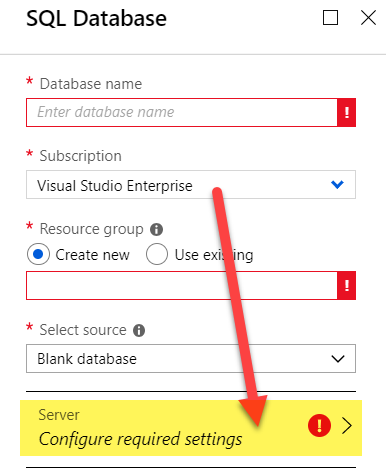
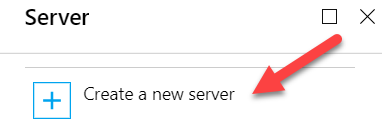
Tasks

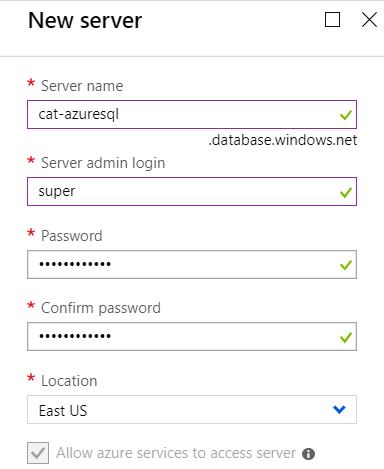
1. Login to the Azure Portal
2. Open a Chrome Incognito or Edge/IE InPrivate browsing window. You should continue to use this to prevent mixing with your work login to the Portal.
3. Navigate to the Azure Portal at <http://portal.azure.com> and login with your Azure Pass account associated with a personal Outlook email address.
4. Browse the Marketplace and Add Favorites
5. Click on All services
   1. 
6. Browse the available resources that you can deploy
7. Find and Star the following resource types:
   1. Kubernetes Services
   2. Container Registries
   3. Team Services Administration
8. Try dragging and dropping your favorites into a different order:
   1. 
9. **Setup Portal Settings and Guided Tour**
10. On the top right of the Portal, click on the Settings gear.
    1. 
11. Try changing colors around
12. Now click on the “?” icon
13. Click “Launch Guided Tour”
    1. 
14. Now, click Keyboard Shortcuts under the “?” icon.
    1. 
15. Test out a few of the shortcuts. You must Hold down the first button, then press the second. For example, “G+D” means hold down G and also press D while still holding G.

Exercise 1 has been completed

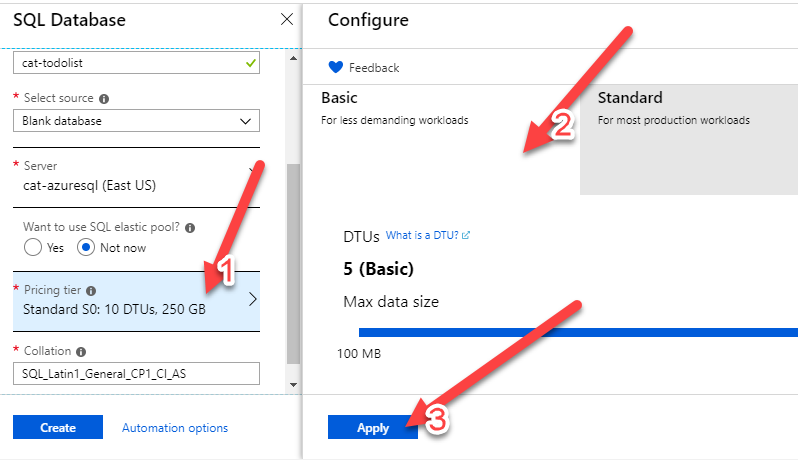
Exercise 2: Create an Azure SQL Server and Database Resource

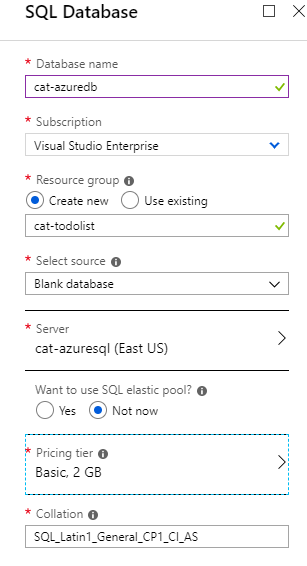
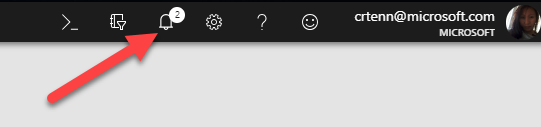
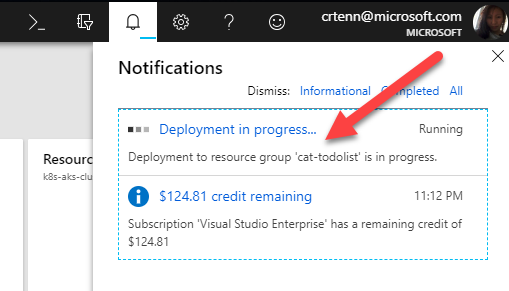
Tasks

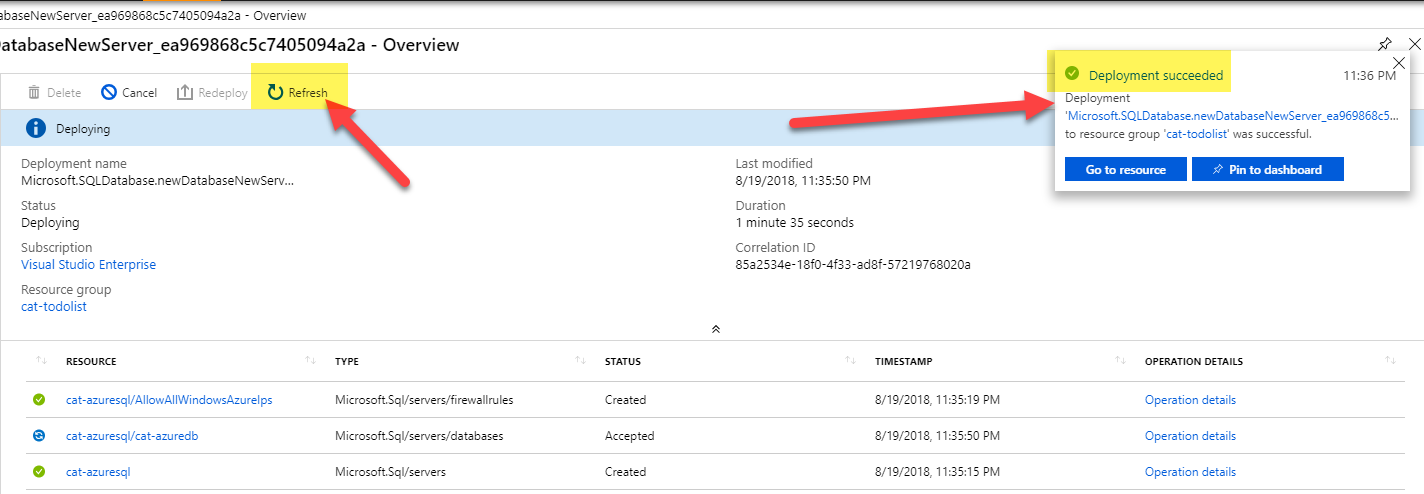
1. Create an Azure SQL Server
2. Click Create a Resource on the left navigation menu.
3. Search for “SQL Database”.
4. Click Create.
5. First, click on Server:
   1. 
6. Click “Create a new server”
   1. 
7. Fill out the form as follows (replace the highlighted INITIALS with your actual initials):
   1. Server name: INITIALS-azuresql
   2. Server admin login: super
   3. Password: P@ssw0rd123!
   4. Location: East US



1. Click Select at the bottom. The 2 panes with the Server info should now shrink down and you are back to your original form for the SQL Database.
2. Fill out the following form as follows (replace the highlighted INITIALS with your actual initials):
   1. Database name: INITIALS-azuredb
   2. Resource group: INITIALS-todolist
   3. Pricing Tier: Click on this section > Click Basic > Click Apply



1. Now your form should look as follows, but with your initials instead of mine (“cat”):
   1. 
2. Click Create at the bottom of the screen.
3. You should now see a notification, click on the bell icon on the top right of the Portal:
   1. 
4. You will see that your deployment is in progress:
   1. 
5. Click on the blue text that says “Deployment in progress” and you will be brought to an overview page of the deployment. You can hit the Refresh button to refresh this page. You will see a “Deployment succeeded notification” once it is done.



1. You should see the duration is only around 2 minutes for deployment.

Exercise 2 has been completed

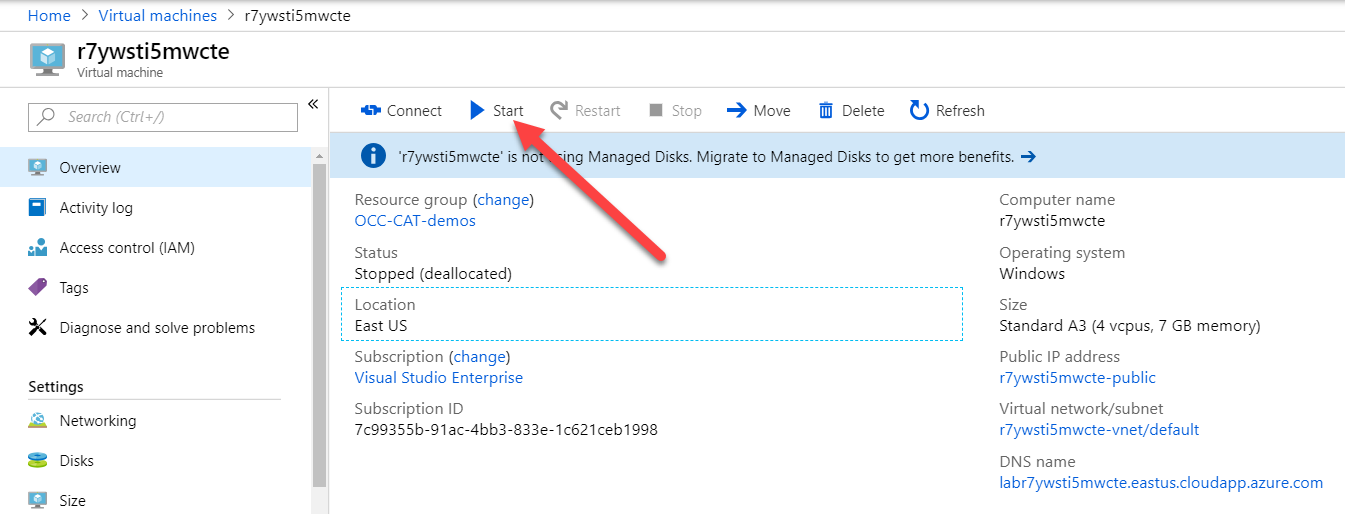
Exercise 3: Create a Firewall exception & Test connection with SSMS

Tasks

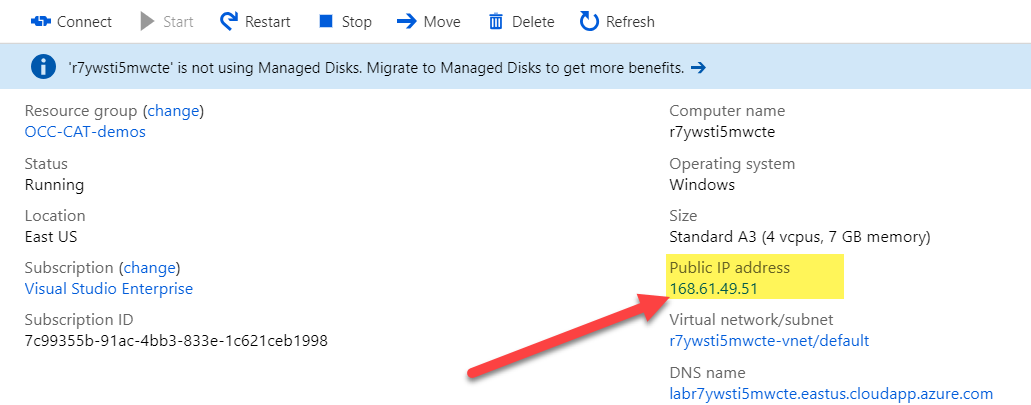
1. Find your VM IP address
2. Click on “All resources” on the left navigation pane.
3. Find your Virtual Machine resource.
4. Click on it.



1. On the Overview page, click Start:



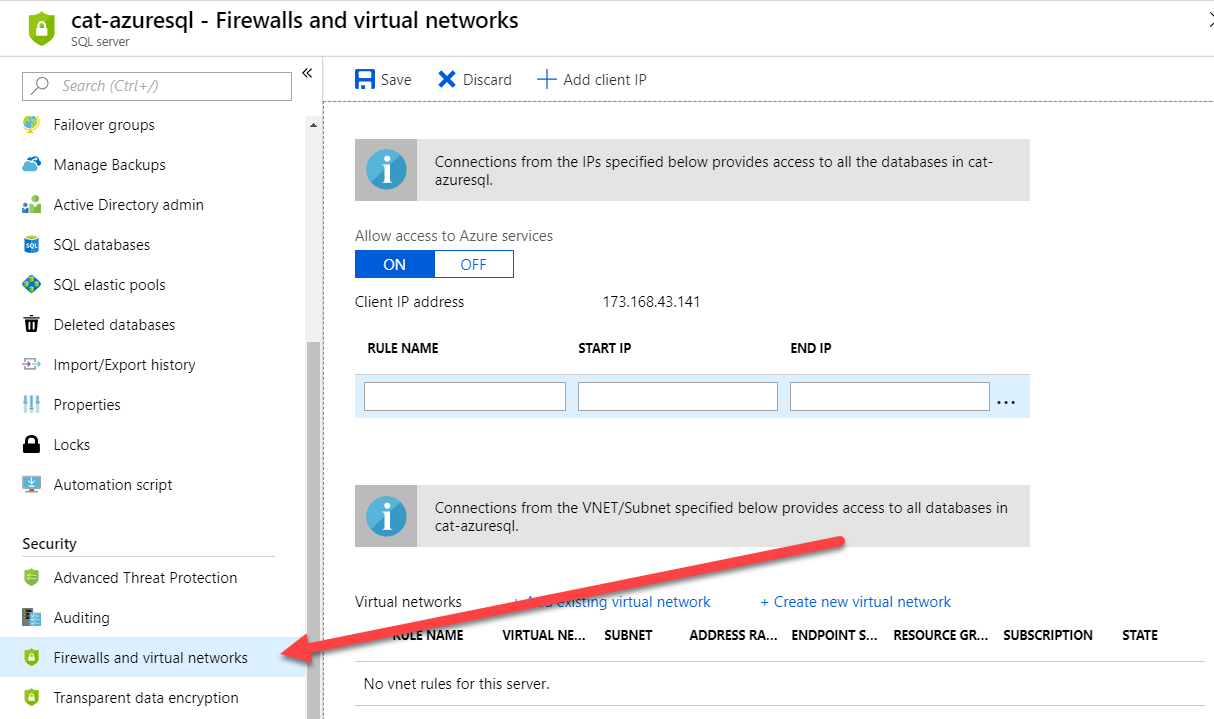
1. Copy the Public IP address into a Notepad. Note: this is a dynamic IP address and each time you stop and restart the VM, the IP address will change.



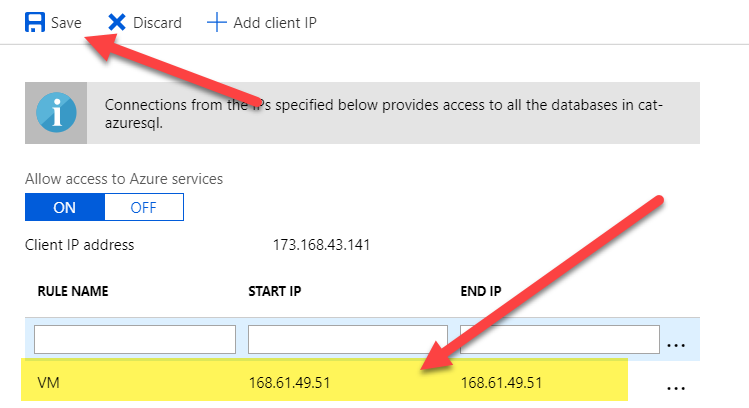
1. Create the Firewall Exception
2. Click on “All resources” on the left navigation pane.
3. Find your SQL Server and SQL database. Notice the information here about location and resource group.



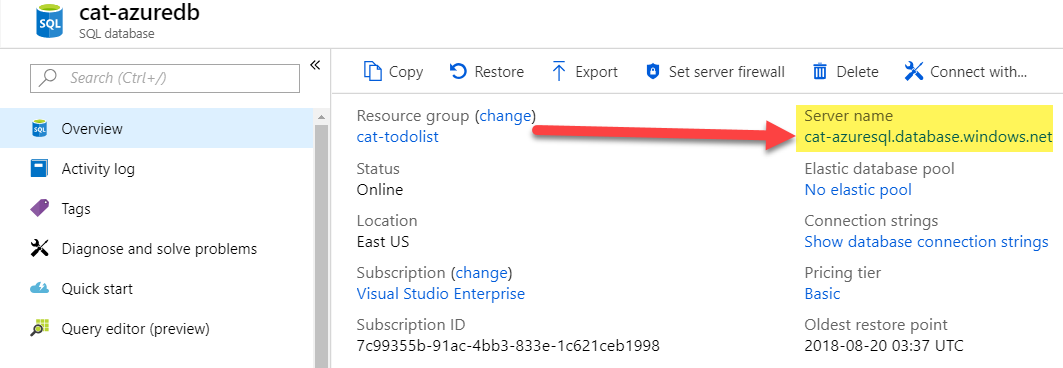
1. Click on your SQL Server resource.
2. Under Security, click on Firewalls and virtual networks.



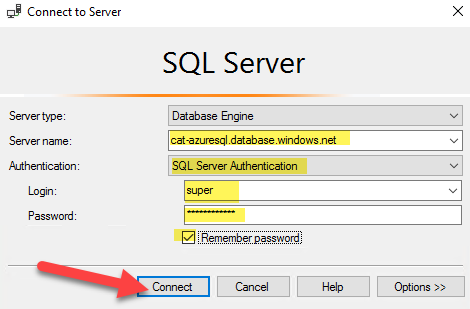
1. Under Client IP address, add the VM IP address you saved in your Notepad into both the Start IP and End IP. Make the Rule Name “VM”.



1. Hit Save.
2. Test your Azure SQL Connection
3. RDP into your VM. If you need help with this, refer to the Setup instructions in Module 0 or let your instructor know and they can assist. The login information for the VM is:
   1. Username: super
   2. Password: P@ssw0rd123!
4. In your VM, open SQL Server Management Studio 17. It is a little slow to load, so please be patient and give it a couple minutes.
5. In the Azure Portal, go to your SQL Database resource and copy “Server name”



1. Go back to your VM and paste the Server name into the SQL Server Management Studio prompt. Set Authentication to “SQL Server Authentication”. Enter “super” for the Login and “P@ssw0rd123!” for the password.



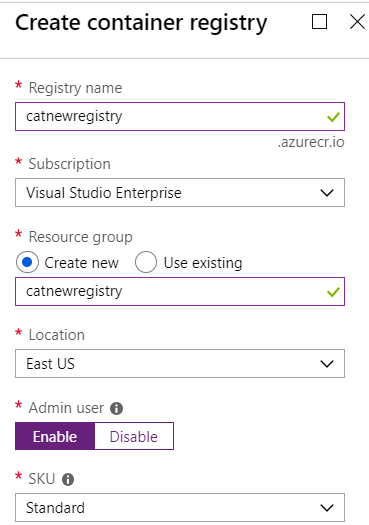
1. Click Connect. You should see a single Database in there. If you get no errors logging in, then your Firewall rule was successful! Keep your RDP open.

Exercise 3 has been completed

Exercise 4: Create an Azure Container Registry (Setup for future lab)

Tasks

1. Task
2. Go back to the Azure Portal.
3. Click Create a resource.
4. Search for: Container Registry
5. Click Create.
6. Fill it out as follows (replace initials with your initials in **lowercase**):
   1. Registry Name: initialsnewregistry (all **lowercase**!!!!!!)
   2. Subscription: Azure Pass
   3. Resource Group: initialsnewregistryrg
   4. Location: East US
   5. Admin User: Enable
   6. SKU: Standard



1. Click Create at the bottom.

Exercise 4 has been completed

Exercise 5: Create a VSTS account (Setup for future lab)

Tasks

1. Task
2. In the Azure Portal, hit Create a resource.
3. Search for: Team Project.
4. Click on Team Project (preview) – there may or may not be the “preview” in parenthesis next to it. Preview indicates that the service is new and not released to General Audience (GA) yet.
5. Click Create.
6. First, click Organization > Create a new organization > and set the URL to:
   1. initials-occ



1. Click OK.
2. Set the Name to:
3. initials-occ
4. Setup the Resource Group to the same as the Name.
5. Subscription should be Azure Pass.
6. Leave all other fields as default.
7. Click Create.

Exercise 5 has been completed