ONLINE LAB: Implementing Autoscaling for Web Apps

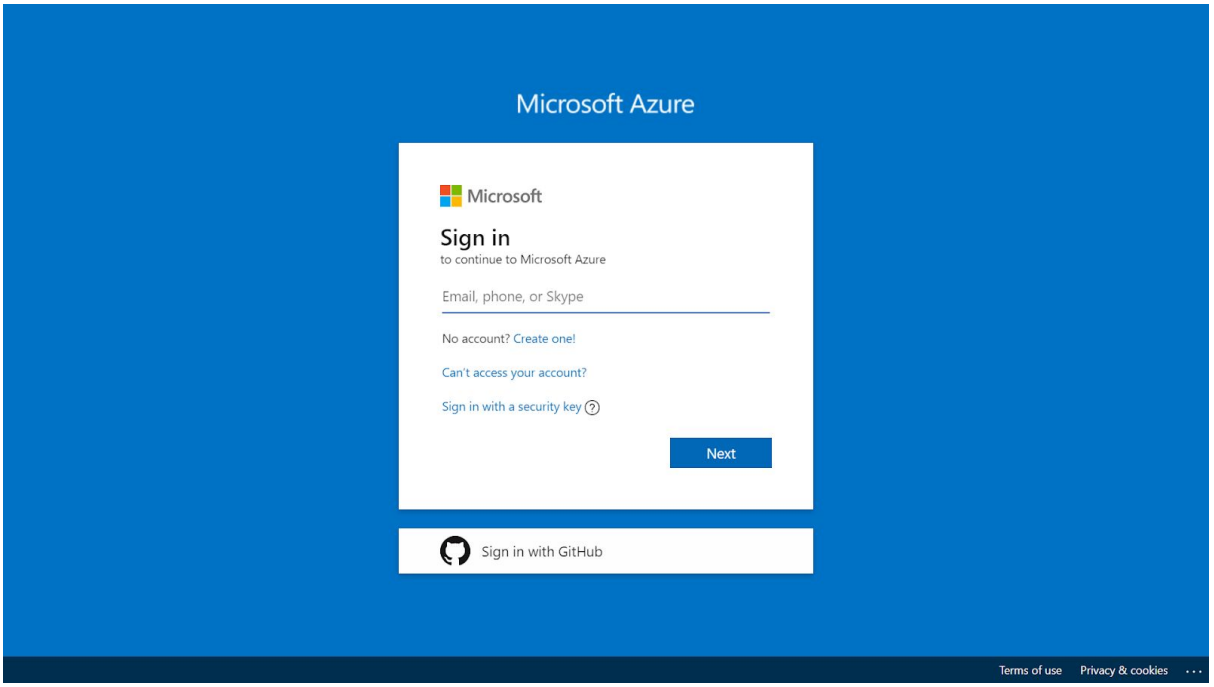
Your Challenge

- Create a resource group named **webappgrp**
- Create a web app at least Standard S1 type
- Create an autoscaling rule so that a second instance gets added when CPU exceeds 70 percent for 10 minutes
- Go back down to 1 instance when CPU is below 10 percent for 10 minutes
- Clean up all of your resources created after you're done

Solution

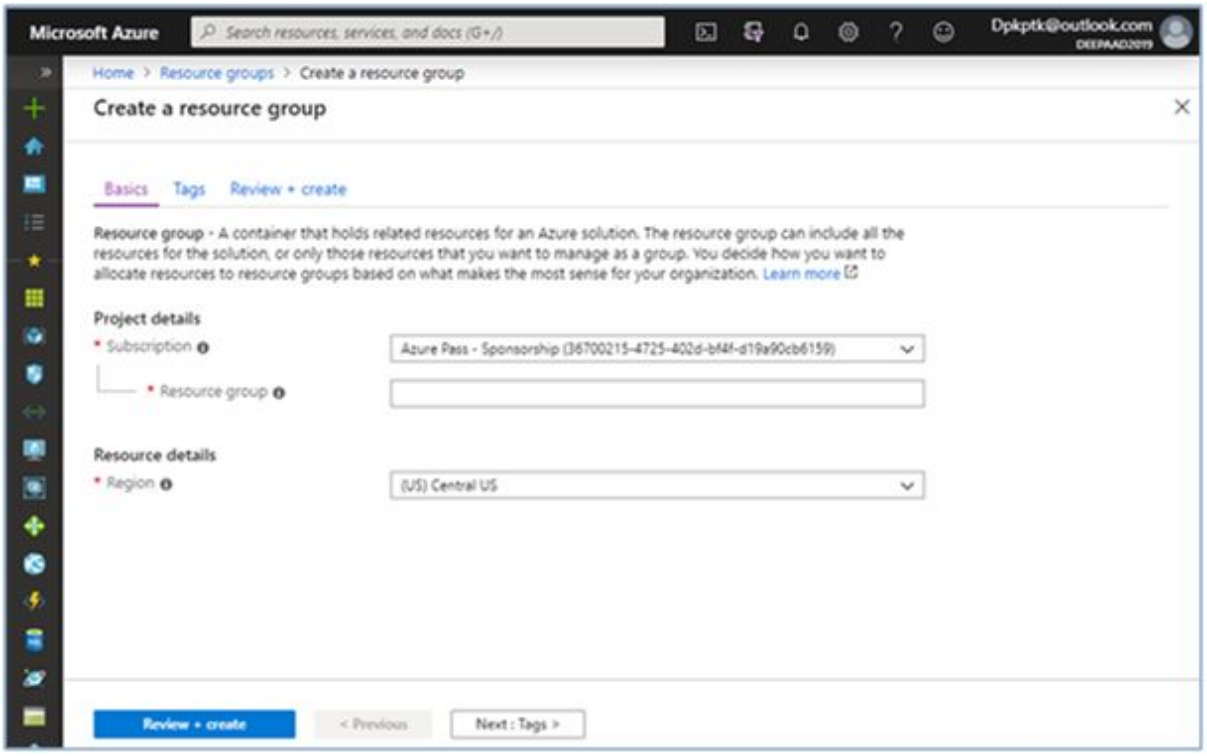
Step 1 Sign Into Azure

Sign into Azure at https://portal.azure.com/



Step 2 Create a resource group

1. In the navigation list, click **Resource groups**.
2. Click **Add** to open the **Resource group** blade.

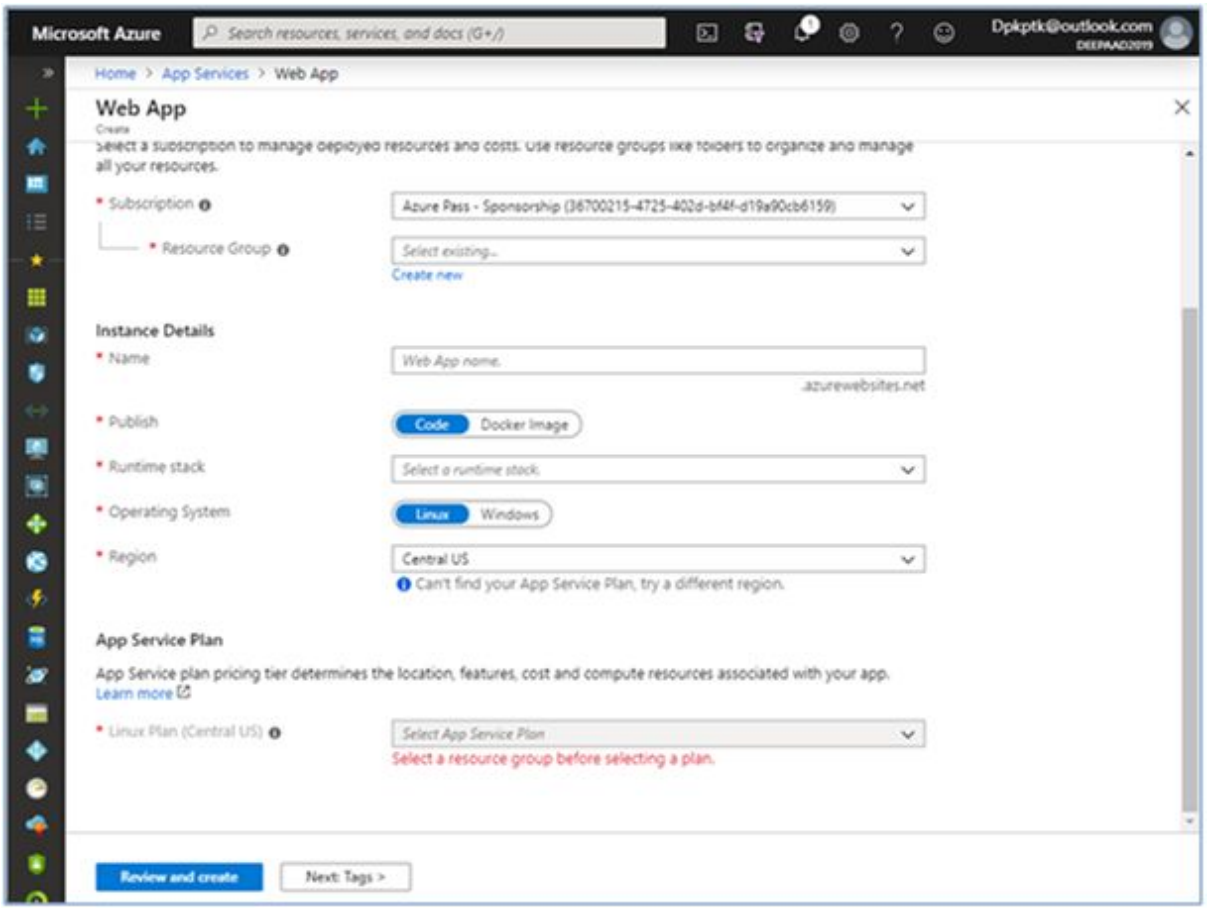


3. For **Resource group** name, enter **webappgrp**.
4. Select a subscription and a location.
5. Click **Review + Create** to proceed to the last step.
6. Click **Create** to create the resource group.
7. Click **Refresh** to refresh the list of resource groups.

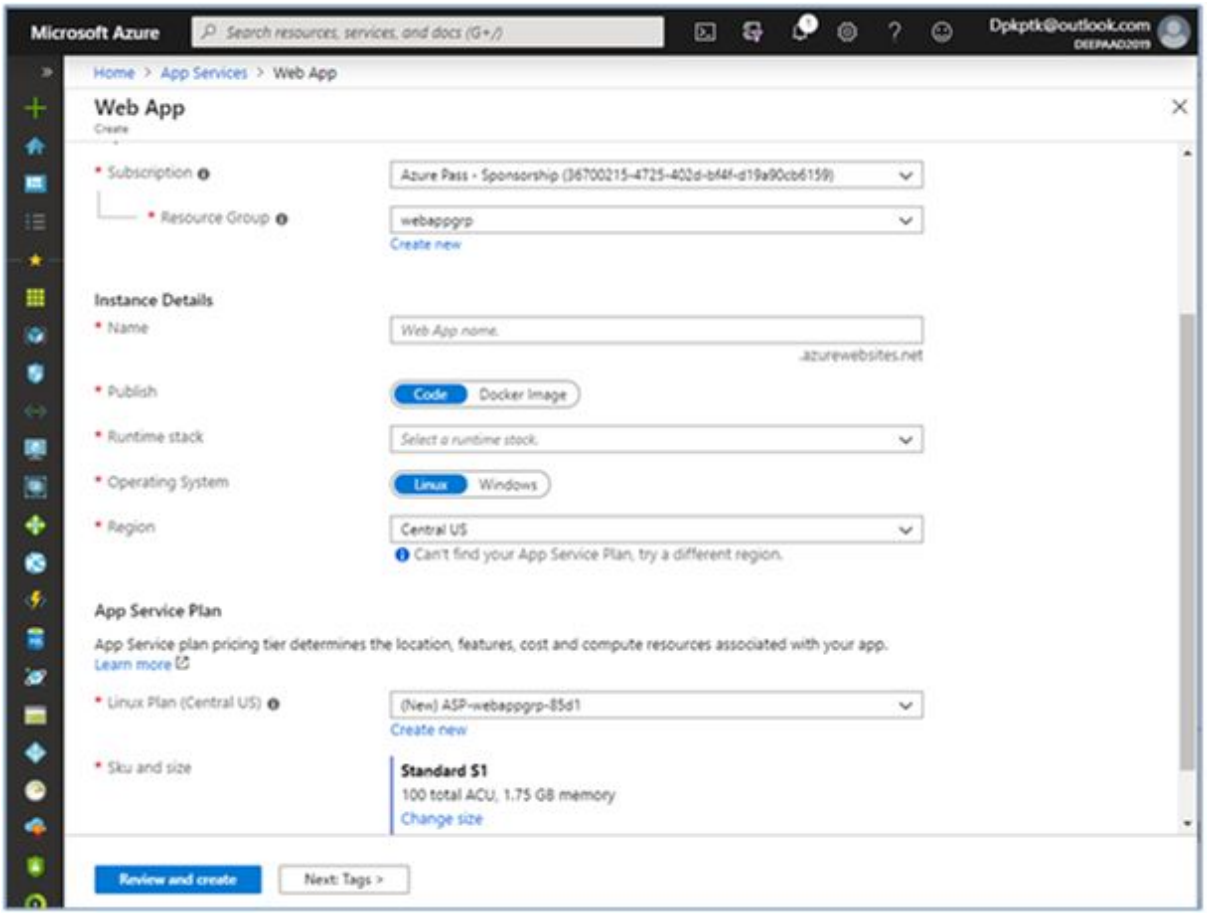
The new resource group appears in your resource groups list.

Step 3 Create a Web App

1. In the navigation list, click **App Services.**
2. Click **Add** to open the **Web App** blade.



3. Select a subscription and the resource group **webappgrp**.
4. Enter a unique Web App **Name** in the group (i.e. **mytestwebappdemo**).
5. Select a **Runtime stack** and a **location**.
6. Select Standard S1 as **Sku and size**.

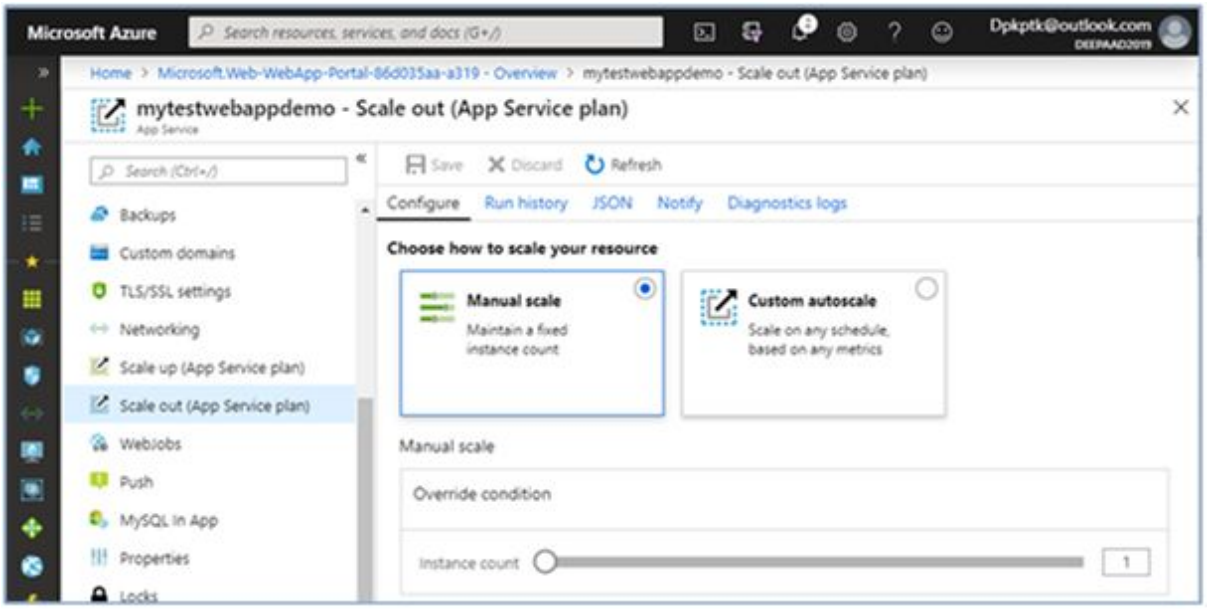


7. Click **Review + Create** to proceed to the last step.
8. Click **Create** to create the Web App.

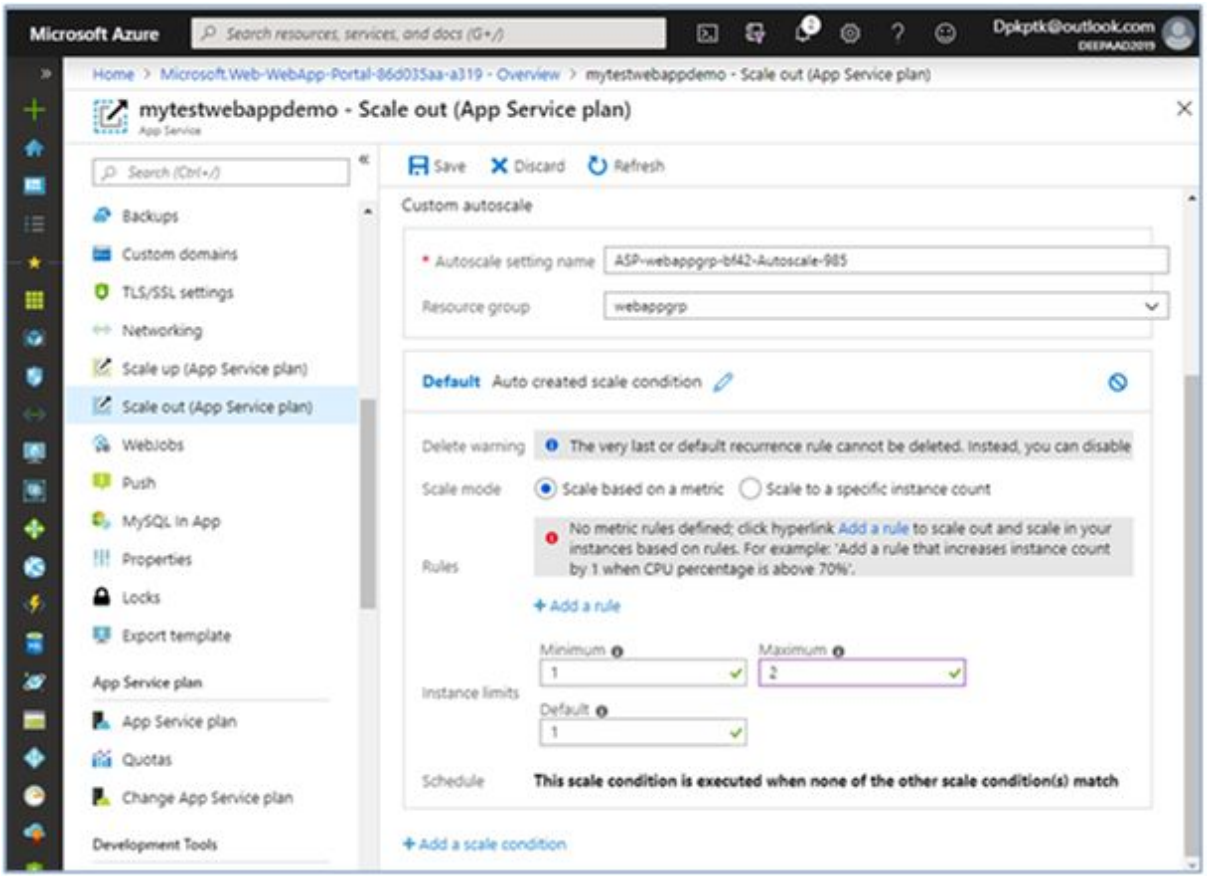
The new Web App appears in your **App Services** list.

Step 4 Autoscale the Web App

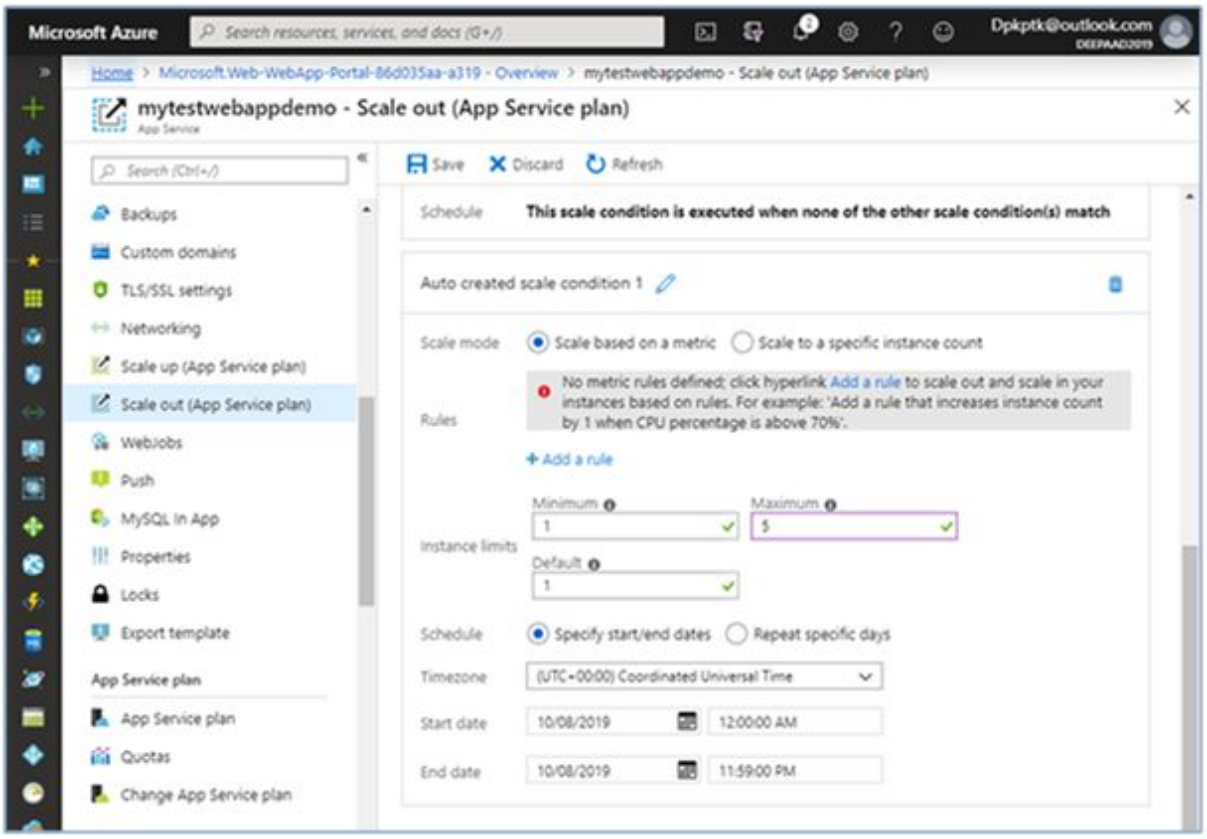
1. In the navigation list, click **App Services**. The Web App (i.e. **mytestwebappdemo**) we created appears in the list.
2. Click on the Web App (i.e. **mytestwebappdemo**).
3. Select **Scale out (App Service plan)** from the menu.



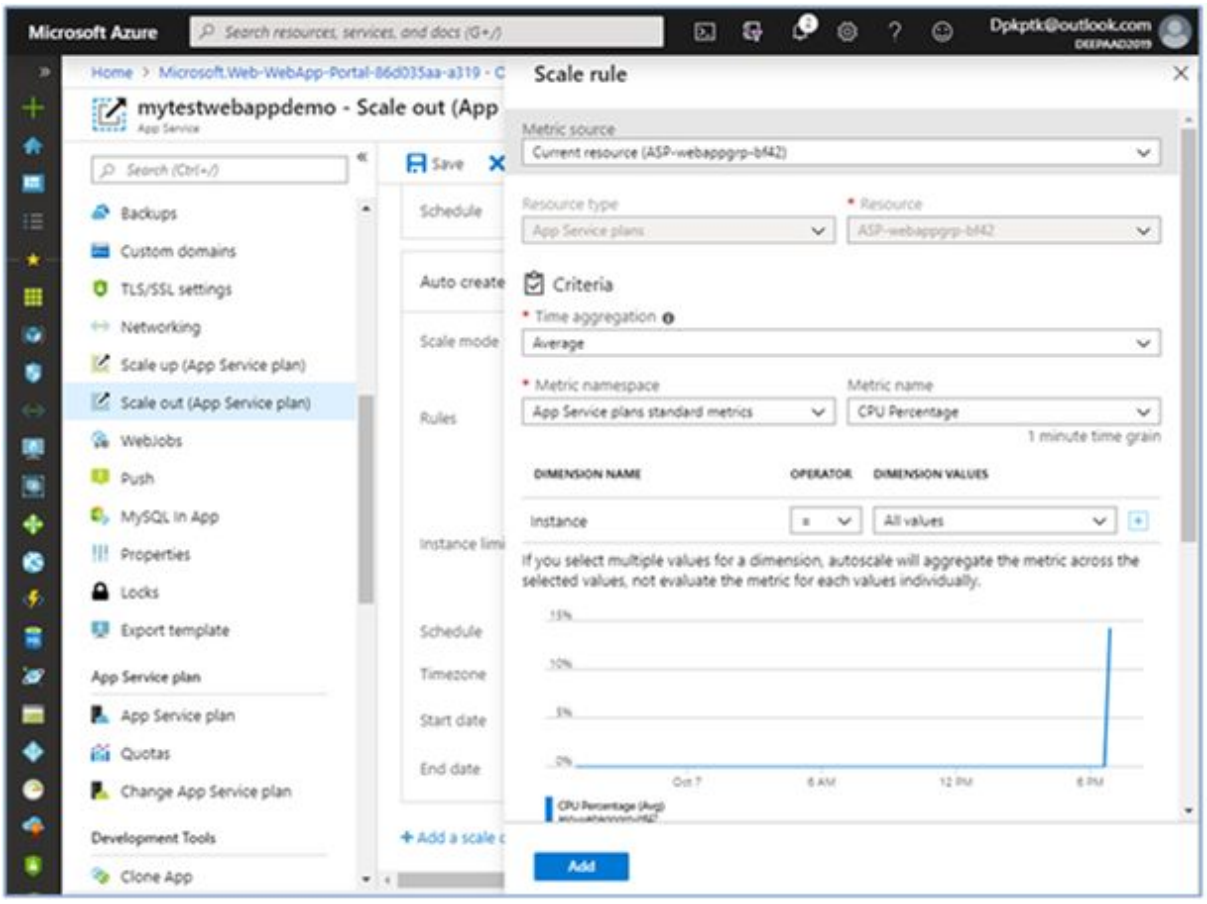
4. Click on the **Custom autoscale**.

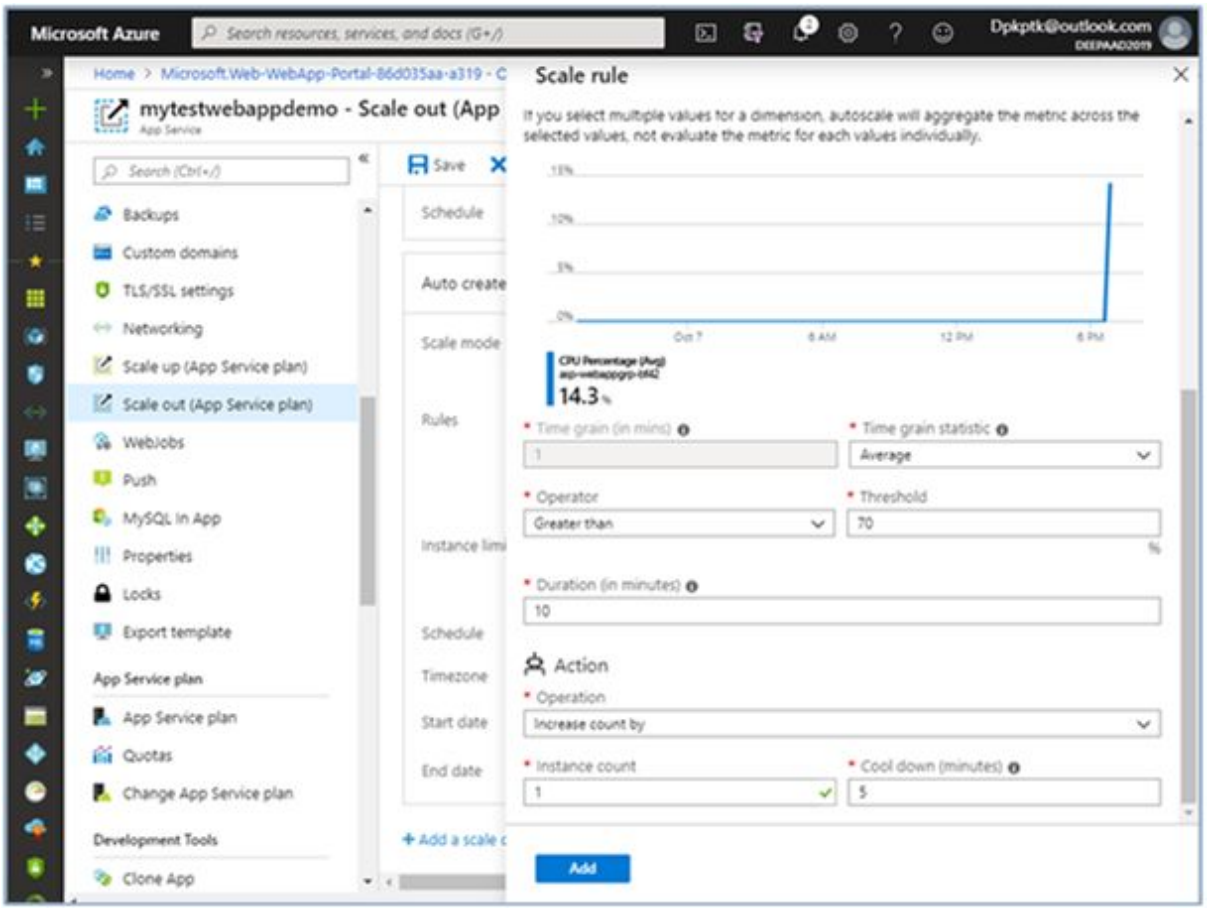


5. Click **Add a scale condition**. Set the maximum **Instance limits** to maximum 5 (Default 2).

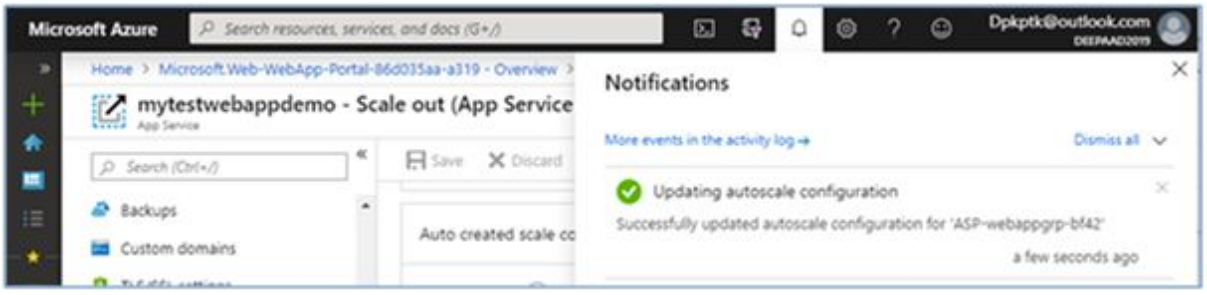


6. Click **Add a rule**. **Scale rule** blade appears.


Microsoft Azure
Search resources, services, and docs (G+/)
Dpkptk@outlook.com
Home > Microsoft.Web-WebApp-Portal-86d035aa-a319 - C
mytestwebappdemo - Scale out (App
App Service
Search (Ctrl+/)
Backups
Custom domains
TLS/SSL settings
Networking
Scale up (App Service plan)
Scale out (App Service plan)
WebJobs
Push
MySQL In App
Properties
Locks
Export template
App Service plan
App Service plan
Quotas
Change App Service plan
Development Tools
Clone App
Save
Schedule
Auto create
Scale mode
Rules
Instance limi
Schedule
Timezone
Start date
End date
+ Add a scale
Scale rule
Metric source
Current resource (ASP-webappgrp-bf42)
Resource type
App Service plans
* Resource
ASP-webappgrp-bf42
Criteria
* Time aggregation
Average
* Metric namespace
App Service plans standard metrics
Metric name
CPU Percentage
1 minute time grain
DIMENSION NAME
OPERATOR
DIMENSION VALUES
Instance
=
All values
If you select multiple values for a dimension, autoscale will aggregate the metric across the selected values, not evaluate the metric for each values individually.
15%
10%
5%
0%
Oct 7
6 AM
12 PM
6 PM
CPU Percentage (Avg)
Add



7. Click **Add**. Click **Save**.

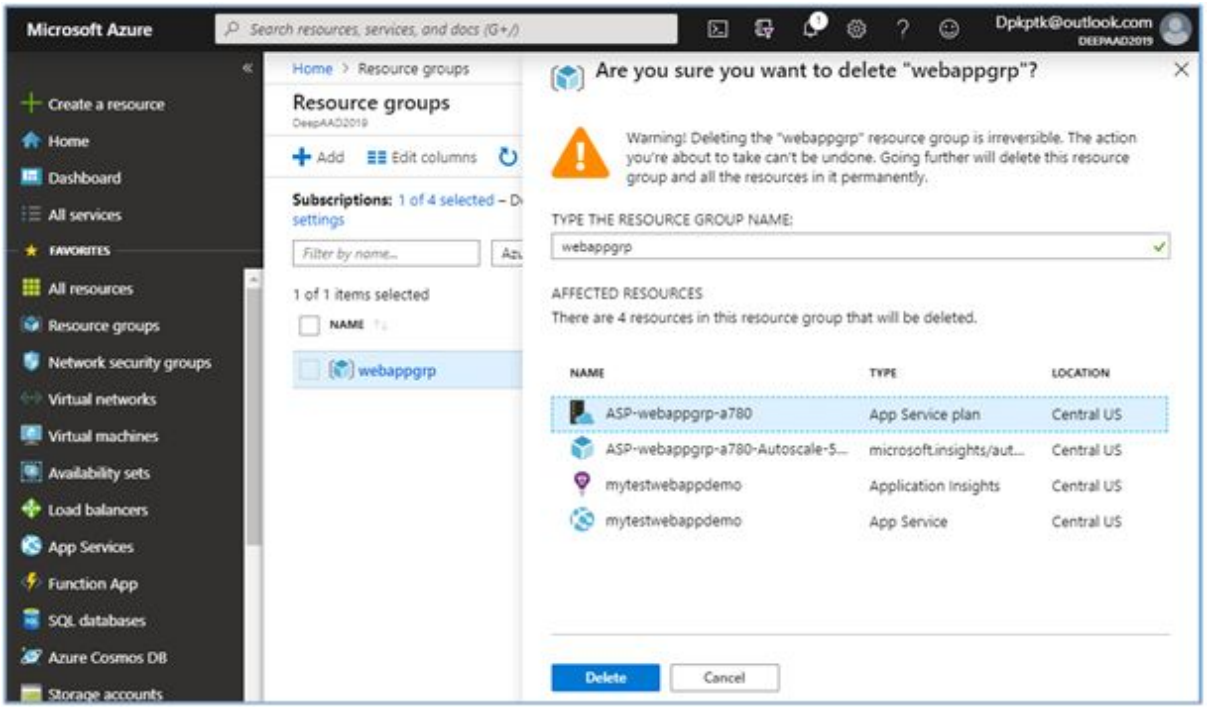


We have now successfully created our first scale setting to autoscale a web app based on CPU usage.

Step 5 Clean up

1. In the navigation list, click **Resource groups**.
2. Click **webappgrp** 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: **webappgrp**.



5. Click **Delete** to delete the resource group.

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