

Akilandeshwari Srinivasan(451036)

Inclass exercises – CLCM3503(Monday)

Deploy HTML in Azure using Azure App Service.

### Azure App services:

Today I have learned the following things in the azure app service

- There is a difference between Azure app services and cloud services.
- App services are defined by azure for the web apps, mobile apps.
- It supports continuous integration and deployment by Azure DevOps Services, GitHub, Bitbucket, etc., Once applications connected to the above any changes done it will be applied automatically without any manual integration.
- There are 3 major service plan : shared compute, Dedicated compute, Isolated
- In shared and Free plans scaling is not possible
- Manual deployment is also possible.
- It has a built-in authentication and authorisation.
- There are two main deployment types for Azure App Service.
  1. Multi-tenant App Service Hosts
  2. Single-tenant App Service Environment (ASE) hosts
- We can find the Outbound IP Addresses using the cmd

```
az webapp show \
--resource-group <group_name> \
--name <app_name> \
--query outboundIpAddresses \
--output tsv
```
- If you want to find all the possible outbound ip address then just change the word “outboundIpAddresses” to “possibleOutboundIpAddresses”
- Resource Group:

Resource group is nothing but the folder which contains the front end, storage and database as a single folder.

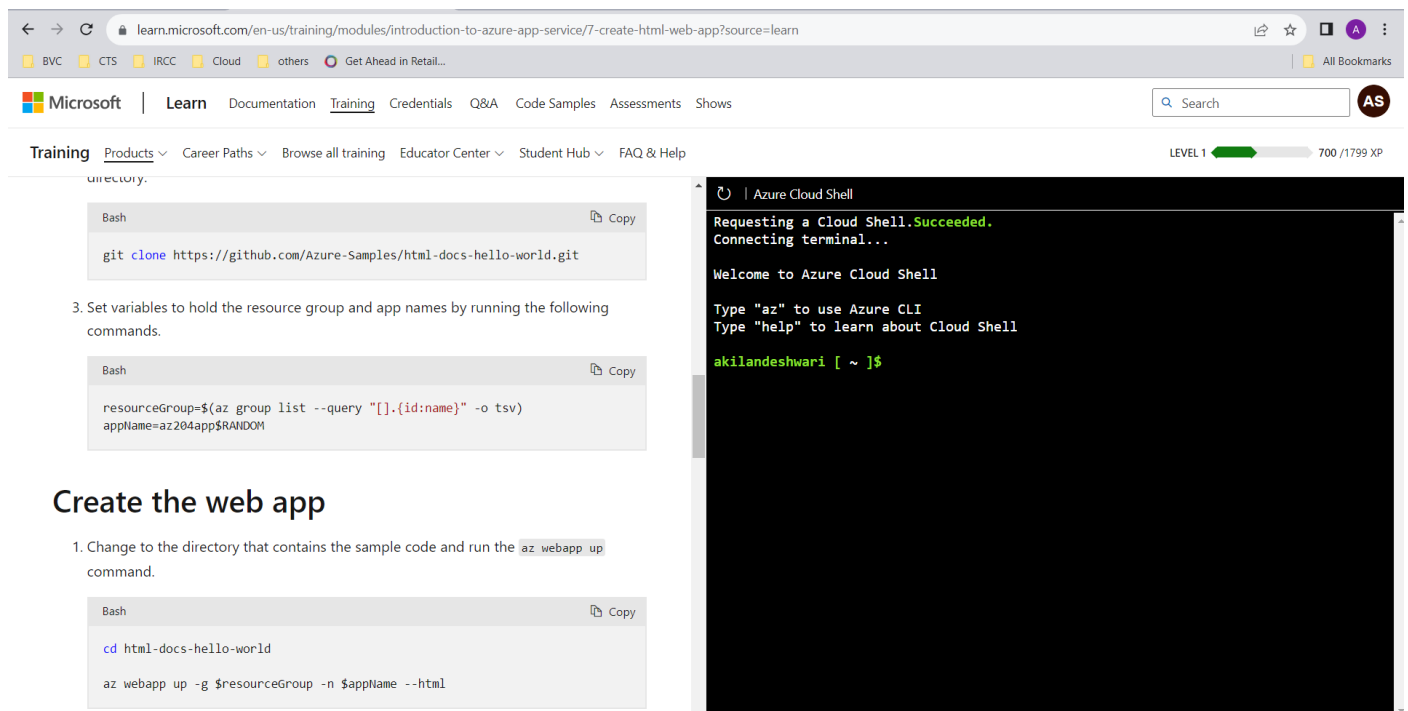
Create the resource group - *az group create --name AkilaResourceGroup --location eastus*

This cmd will create the resource group called *AkilaResourceGroup* . After creating your VM , database, storage you can deploy it to the resource group. Even if you want to delete the application then u can delete the resource group instead of deleting one by one.

### AWS Amplify VS Azure App Service:

- AWS Amplify is like a toolkit that makes it easy to build websites and apps, covering everything from the look of the site to how it works behind the scenes where, Azure App Service is more like a helpful environment that takes care of the technical details when you're building different kinds of apps, not just websites. It's like having a managed space for your applications.

Now sign-in azure sandbox.



The screenshot shows a Microsoft Learn training module titled "7-create-html-web-app?source=learn". The page includes a navigation bar with "Microsoft | Learn" and various links like "Documentation", "Training", "Credentials", "Q&A", "Code Samples", "Assessments", and "Shows". Below the navigation bar, there's a "Training" section with a progress bar showing "LEVEL 1" and "700 / 1799 XP". The main content area is titled "Create the web app" and contains a list of steps. Step 3, "Set variables to hold the resource group and app names by running the following commands.", is highlighted. It includes a code block with the following commands:

```
Bash
git clone https://github.com/Azure-Samples/html-docs-hello-world.git

3. Set variables to hold the resource group and app names by running the following commands.

Bash
resourceGroup=$(az group list --query "[].{id:name}" -o tsv)
appName=az204app$RANDOM
```

Below this, there's a section titled "Create the web app" with a list of steps. Step 1, "Change to the directory that contains the sample code and run the `az webapp up` command.", is highlighted. It includes a code block with the following commands:

```
Bash
cd html-docs-hello-world
az webapp up -g $resourceGroup -n $appName --html
```

On the right side of the screenshot, there's an "Azure Cloud Shell" terminal window. It shows the following output:

```
Azure Cloud Shell
Requesting a Cloud Shell.Succeeded.
Connecting terminal...

Welcome to Azure Cloud Shell

Type "az" to use Azure CLI
Type "help" to learn about Cloud Shell

akilandeshwari [ ~ ]$
```

After that create a folder and navigate to it. Here I have created a folder called *azureHtmlApp*. Later copy your git link where you have the existing code and run the following command.

``git clone gitlink``

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3. Set variables to hold the resource group and app names by running the following commands.

```
Bash
resourceGroup=$(az group list --query "[].{id:name}" -o tsv)
appName=az204app$RANDOM
```

## Create the web app

1. Change to the directory that contains the sample code and run the `az webapp up` command.

```
Bash
cd html-docs-hello-world

az webapp up -g $resourceGroup -n $appName --html
```

This command may take a few minutes to run. While running, it displays information similar to the example below.

```
JSON
```

```
Azure Cloud Shell
Connecting terminal...

Welcome to Azure Cloud Shell

Type "az" to use Azure CLI
Type "help" to learn about Cloud Shell

akilandeshwari [ ~ ]$ mkdir azureHtmlApp
akilandeshwari [ ~ ]$ cd azureHtmlApp
akilandeshwari [ ~/azureHtmlApp ]$ git clone https://github.com/Akila-19/3102Lab.git
Cloning into '3102Lab'...
remote: Enumerating objects: 38, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 38 (delta 1), reused 0 (delta 0), pack-reused 34
Receiving objects: 100% (38/38), 57.45 MiB | 35.12 MiB/s, done.
Resolving deltas: 100% (2/2), done.
akilandeshwari [ ~/azureHtmlApp ]$ cd 3102Lab
akilandeshwari [ ~/azureHtmlApp/3102Lab ]$ ../
bash: ../: Is a directory
akilandeshwari [ ~/azureHtmlApp/3102Lab ]$ cd ..
akilandeshwari [ ~/azureHtmlApp ]$ ^[[200~resourceGroup=$(az group list --query "[].{id:name}" -o tsv)
bash: '$\E[200~resourceGroup=learn-43d0190d-aad2-4a64-8002-c7a253690470': command not found
akilandeshwari [ ~/azureHtmlApp ]$ resourceGroup=$(az group list --query "[].{id:name}" -o tsv)
akilandeshwari [ ~/azureHtmlApp ]$ appName=az204app$RANDOM
akilandeshwari [ ~/azureHtmlApp ]$
```

Later create the resourceGroup, just paste the command as it is.

After that navigate to the folder which you have cloned from the git.

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`git clone https://github.com/Azure-Samples/html-docs-hello-world.git`

3. Set variables to hold the resource group and app names by running the following commands.

```
Bash
resourceGroup=$(az group list --query "[].{id:name}" -o tsv)
appName=az204app$RANDOM
```

## Create the web app

1. Change to the directory that contains the sample code and run the `az webapp up` command.

```
Bash
cd html-docs-hello-world

az webapp up -g $resourceGroup -n $appName --html
```

This command may take a few minutes to run. While running, it displays information similar to the example below.

```
Azure Cloud Shell
id:name}" -o tsv)
bash: '$\E[200~resourceGroup=learn-43d0190d-aad2-4a64-8002-c7a253690470': command not found
akilandeshwari [ ~/azureHtmlApp ]$ resourceGroup=$(az group list --query "[].{id:name}" -o tsv)
akilandeshwari [ ~/azureHtmlApp ]$ appName=az204app$RANDOM
akilandeshwari [ ~/azureHtmlApp ]$ cd 3102Lab
akilandeshwari [ ~/azureHtmlApp/3102Lab ]$ az webapp up -g $resourceGroup -n $akilaAzureHtmlApp --html
argument --name/-n: expected one argument

Examples from AI knowledge base:
az webapp up --name MyUniqueAppName --html
Create a web app and deploy as a static HTML app.

az webapp up --name MyUniqueAppName --location locationName
Deploy new code to an app that was originally created using the same command

https://docs.microsoft.com/en-US/cli/azure/webapp#az_webapp_up
Read more about the command in reference docs
akilandeshwari [ ~/azureHtmlApp/3102Lab ]$ ^[[200~az webapp up -g $resourceGroup -n $appName --html
bash: '$\E[200~az': command not found
akilandeshwari [ ~/azureHtmlApp/3102Lab ]$ az webapp up -g $resourceGroup -n $appName --html
The webapp 'az204app1812' doesn't exist
Creating AppServicePlan 'a.srinivasan036_asp_8398' or Updating if already exists
Creating webapp 'az204app1812' ...
```

Then create the azure webapp by the cmd as “az webapp up -g \$resourceGroup -n \$AppName --html”

Here \$AppName is the variable which contains the app name which assigned while creating the resourceGroup.

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```
git clone https://github.com/Azure-Samples/html-docs-hello-world.git
```

3. Set variables to hold the resource group and app names by running the following commands.

```
Bash
resourceGroup=$(az group list --query "[].{id:name}" -o tsv)
appName=az204app$RANDOM
```

## Create the web app

1. Change to the directory that contains the sample code and run the `az webapp up` command.

```
Bash
cd html-docs-hello-world
az webapp up -g $resourceGroup -n $appName --html
```

This command may take a few minutes to run. While running, it displays information similar to the example below.

```
Azure Cloud Shell


The webapp 'az204app1812' doesn't exist
Creating AppServicePlan 'a.srinivasan036_asp_8398' or Updating if already exists
Creating webapp 'az204app1812' ...
Configuring default logging for the app, if not already enabled
Creating zip with contents of dir /home/akilandeshwari/azureHtmlApp/3102Lab ...
Getting scm site credentials for zip deployment
Starting zip deployment. This operation can take a while to complete ...
Deployment endpoint responded with status code 202
You can launch the app at http://az204app1812.azurewebsites.net
Setting 'az webapp up' default arguments for current directory. Manage defaults with 'az configure --scope local'
--resource-group/-g default: learn-43d0190d-aad2-4a64-8002-c7a253690470
--sku default: F1
--plan/-p default: a.srinivasan036_asp_8398
--location/-l default: eastus
--name/-n default: az204app1812
{
  "URL": "http://az204app1812.azurewebsites.net",
  "appserviceplan": "a.srinivasan036_asp_8398",
  "location": "eastus",
  "name": "az204app1812",
  "os": "Windows",
  "resourcegroup": "learn-43d0190d-aad2-4a64-8002-c7a253690470",
  "runtime_version": "-",
  "runtime_version_detected": "-",
  "sku": "FREE",
  "src_path": "///home//akilandeshwari//azureHtmlApp//3102Lab"
}
```

Now click on the URL u can able to see the output screen.

az204app1812.azurewebsites.net

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Let us have look for **Soeul** and **Venice**

To update the changes give the cmd “code index.html” which open the code of index.html page . Do some changes and save it. Run the same cmd “az webapp up -g \$resourceGroup -n \$appName –html”





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## Update and redeploy the app

1. In the Cloud Shell, type `code index.html` to open the editor. In the `<h1>` heading tag, change *Azure App Service - Sample Static HTML Site* to *Azure App Service Updated* - or to anything else that you'd like.
2. Use the commands `ctrl-s` to save and `ctrl-q` to exit.
3. Redeploy the app with the same `az webapp up` command you used earlier.

Bash

Copy

```
az webapp up -g $resourceGroup -n $appName --html
```

💡 Tip

You can use the up arrow on your keyboard to scroll through previous commands.

4. Once deployment is completed switch back to the browser from step 2 in the "Create the web app" section above and refresh the page.

Azure Cloud Shell

index.html

19 <nav class="navbar navbar-expand-lg bg-body-tertiary">  
20 <div class="container-fluid">  
21 <div class="collapse navbar-collapse" id="navbarSupportedConte  
22 <ul class="navbar-nav mx-auto mb-2 mb-lg-0">  
23 <li class="nav-item">  
24 <a class="nav-link active" aria-current="page" href="#">  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36 </div>  
37 <div class="carousel-item">  
38   
40 <div class="carousel-item">  
41 <img src="assets/images/home3.jpg" class=" dimg mx-auto "

Save new file?  
Enter a file name.  
azureChangesDemo  
Save Don't Save

"sku": "FREE",  
"src\_path": "~/home//akilandeswari//azureHtmlApp//3102Lab"  
}  
akilandeswari [ ~/azureHtmlApp/3102Lab ]\$ code index.html  
akilandeswari [ ~/azureHtmlApp/3102Lab ]\$

Changes implemented.

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az204app18112.azurewebsites.net


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All Bookmarks

## This is the example of Azure Inclass exercise

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Reflection:

I have learned the Azure App services. I feel its easy to deploy the web application in azure by doing todays exercise.