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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.

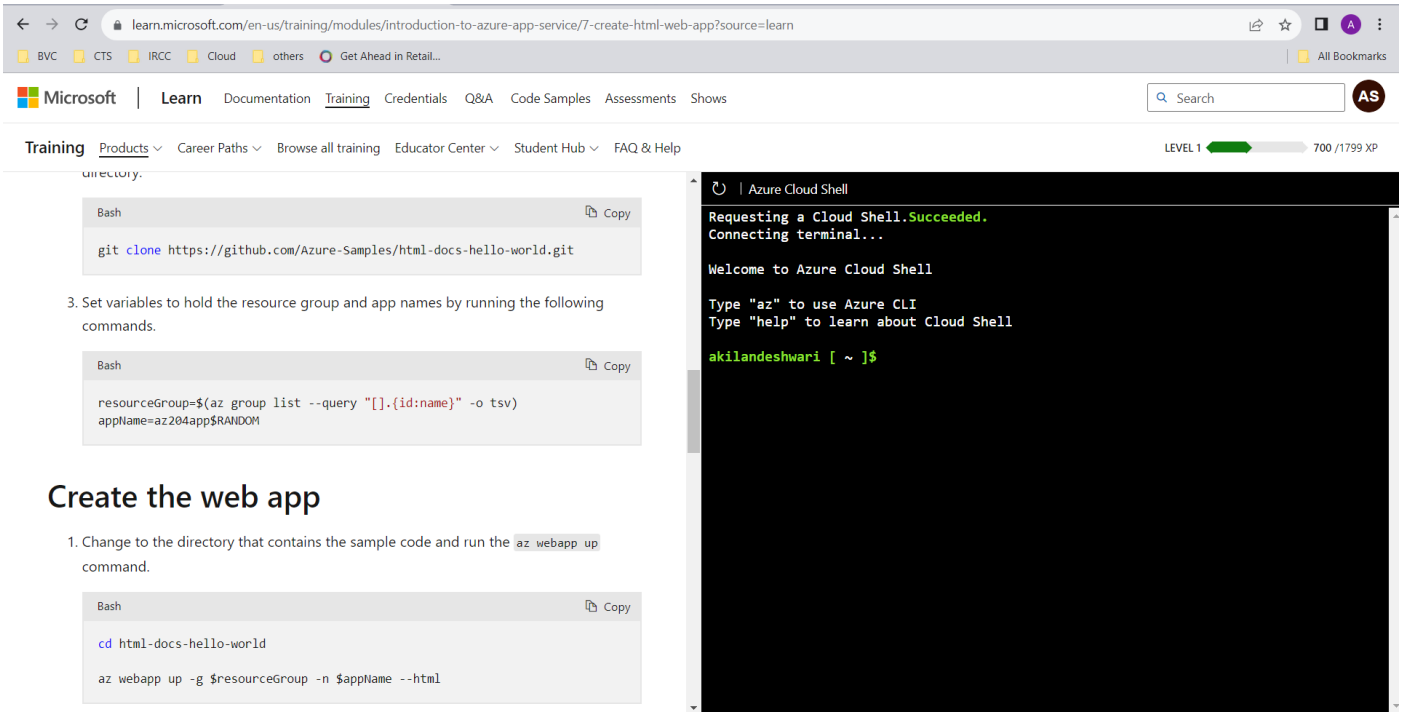
Create the resource group - *az group create --name AkilaResourceGroup --location eastus*

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:

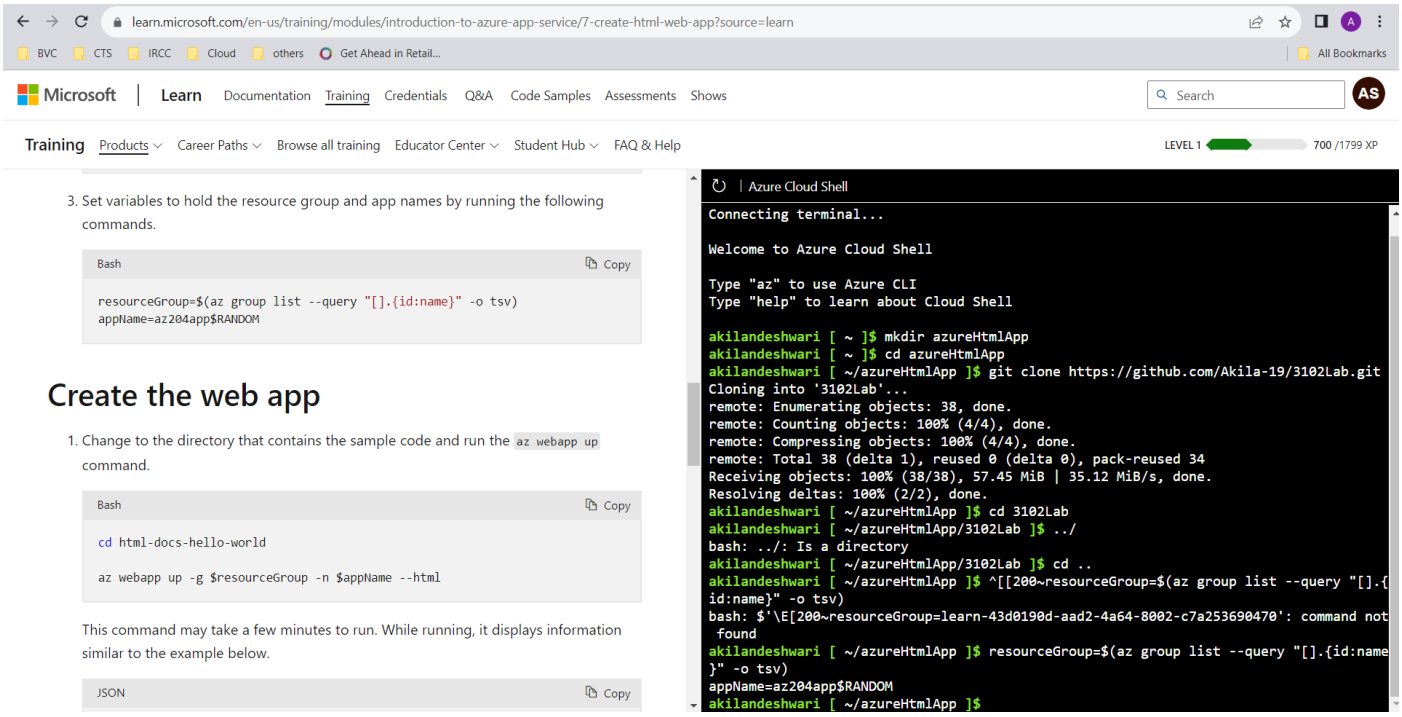
- AWS Amplify is like a toolkit that makes it easy to build websites and apps, covering everything from the look of the site to how it works behind the scenes where, Azure App Service is more like a helpful environment that takes care of the technical details when you're building different kinds of apps,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

Now sign-in azure sandbox.



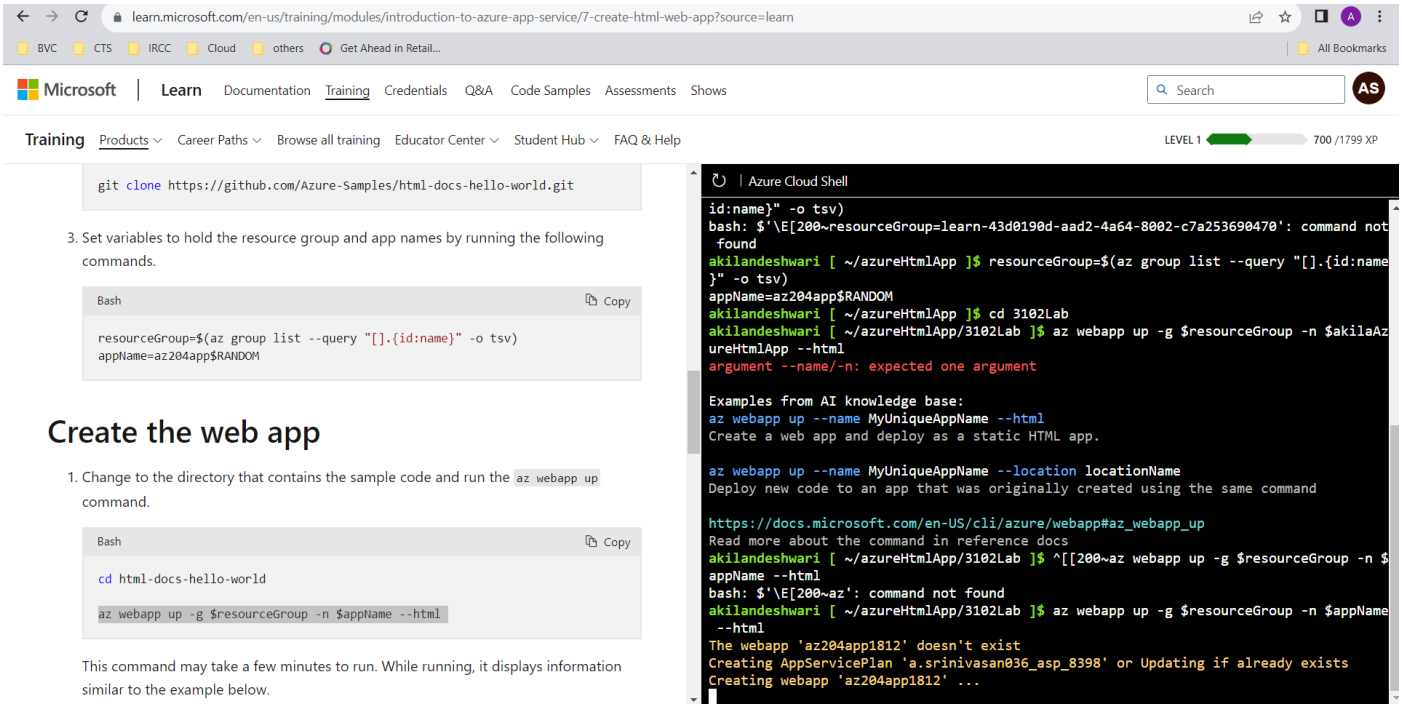
After that create a folder and navigate to it. Here I have created a folder called azureHtmlApp. Later copy your git link where you have the existing code and run the following command.

`git clone *gitlink*`



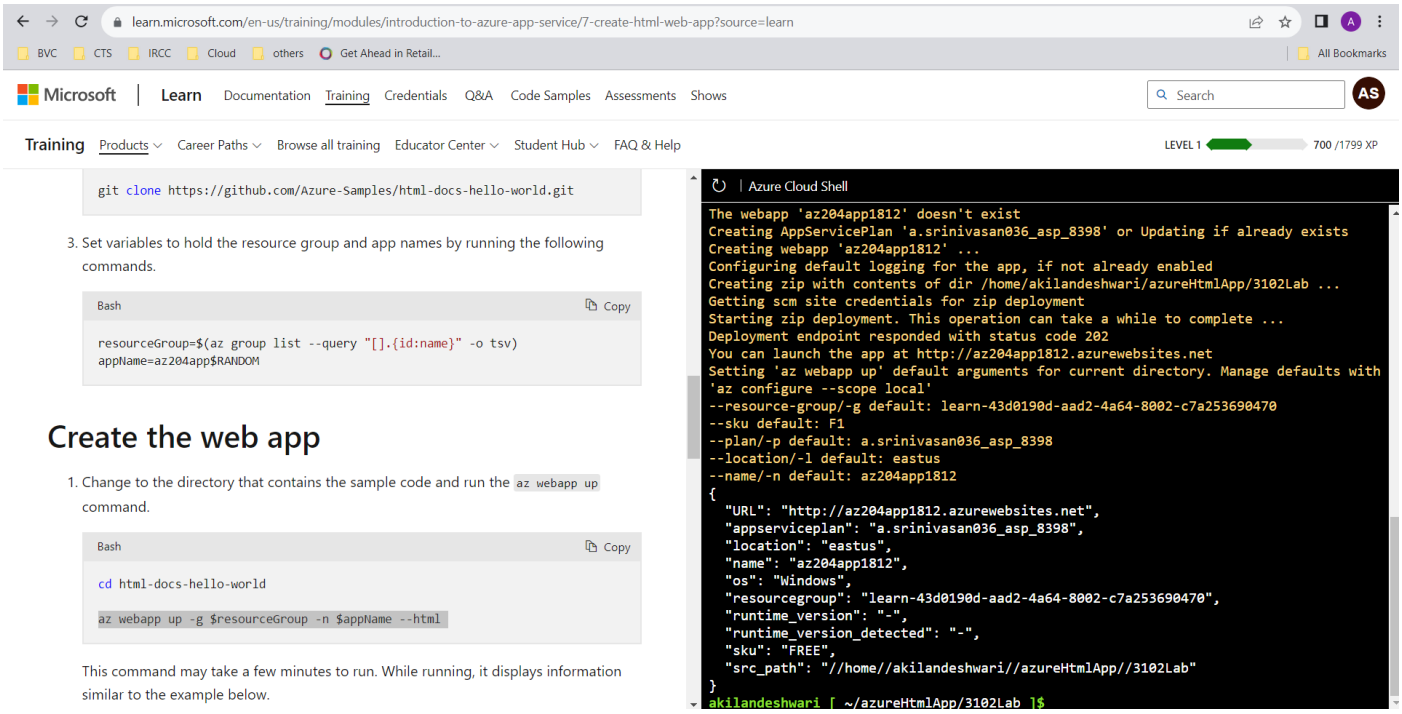
Later create the resourceGroup, just paste the command as it is.

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

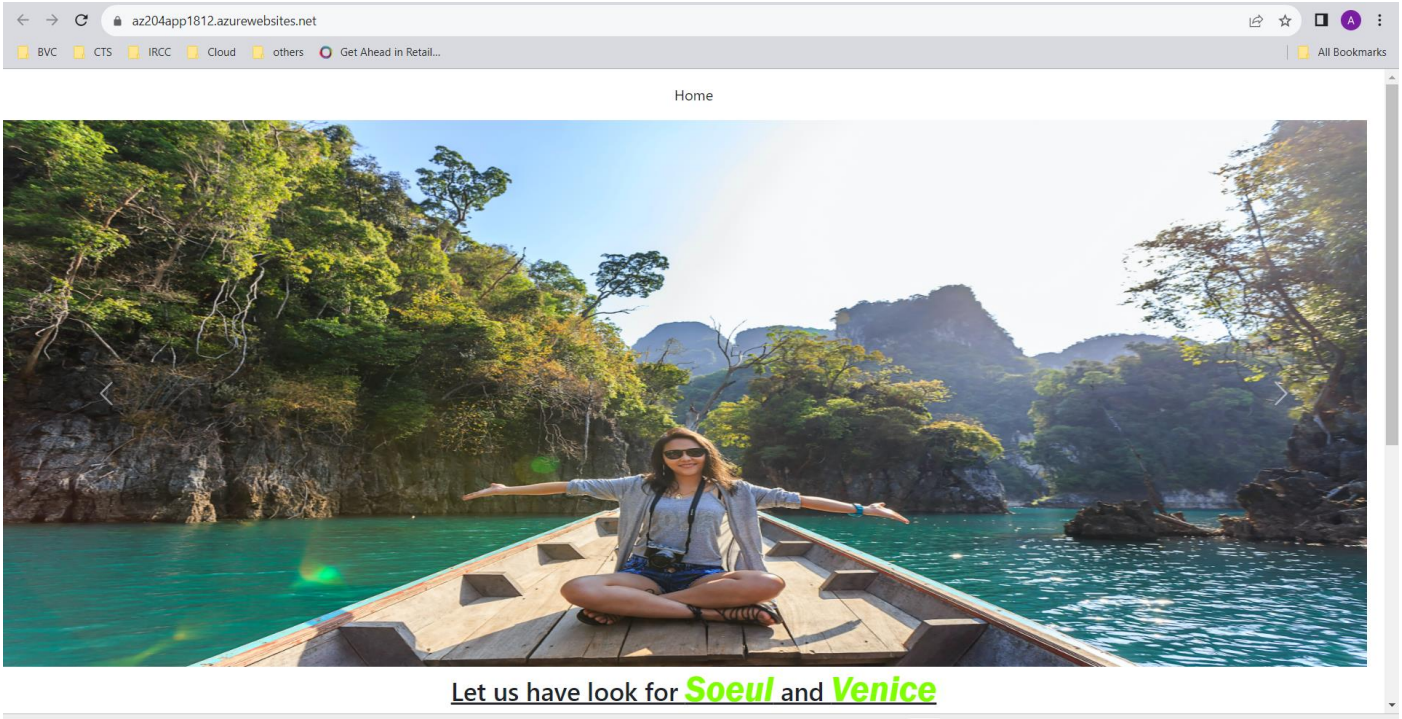


Then create the azure webapp by the cmd as “az webapp up -g $resourceGroup -n $appName --html”

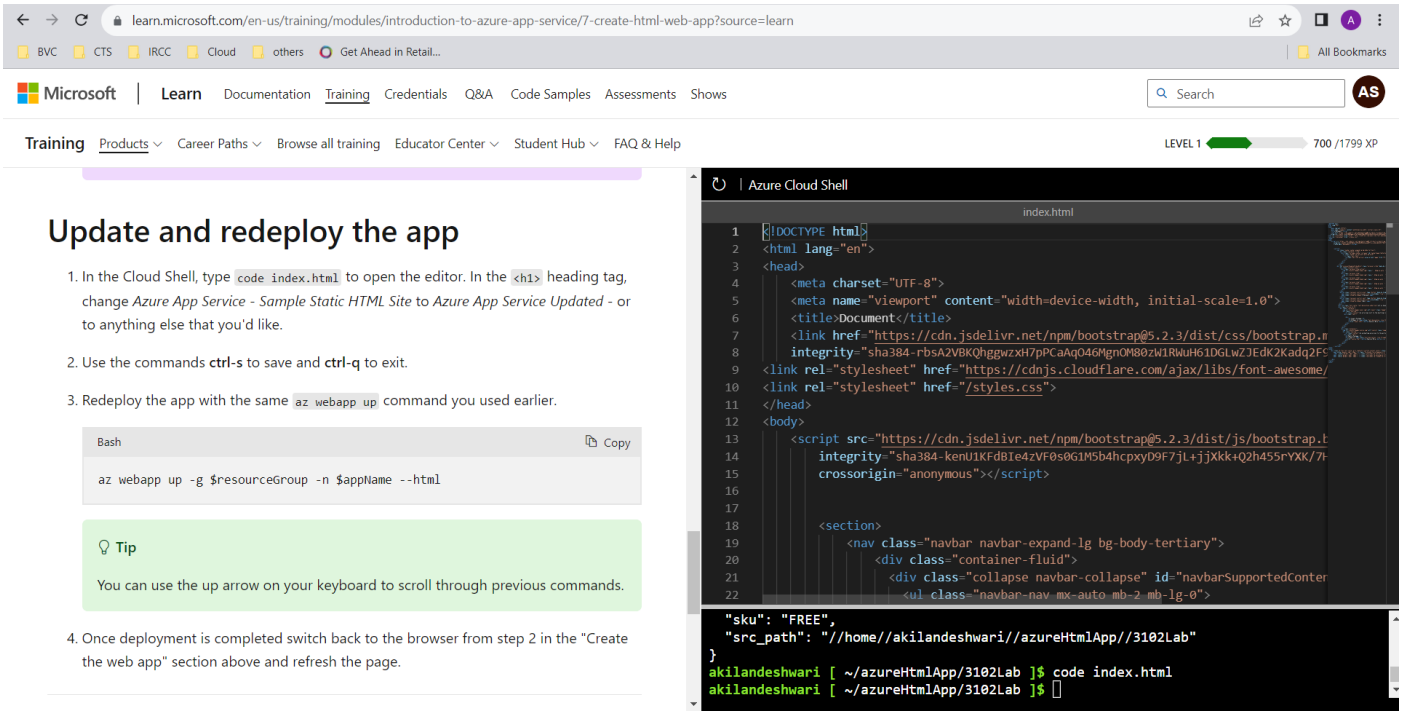
Here $appName is the variable which contains the app name which assigned while creating the resourceGroup.



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



To update the changes give the cmd “code index.html” which open the code of index.hmtl page . Do some changes and save it. Run the same cmd “az webapp up -g $resourceGroup -n $appName –html”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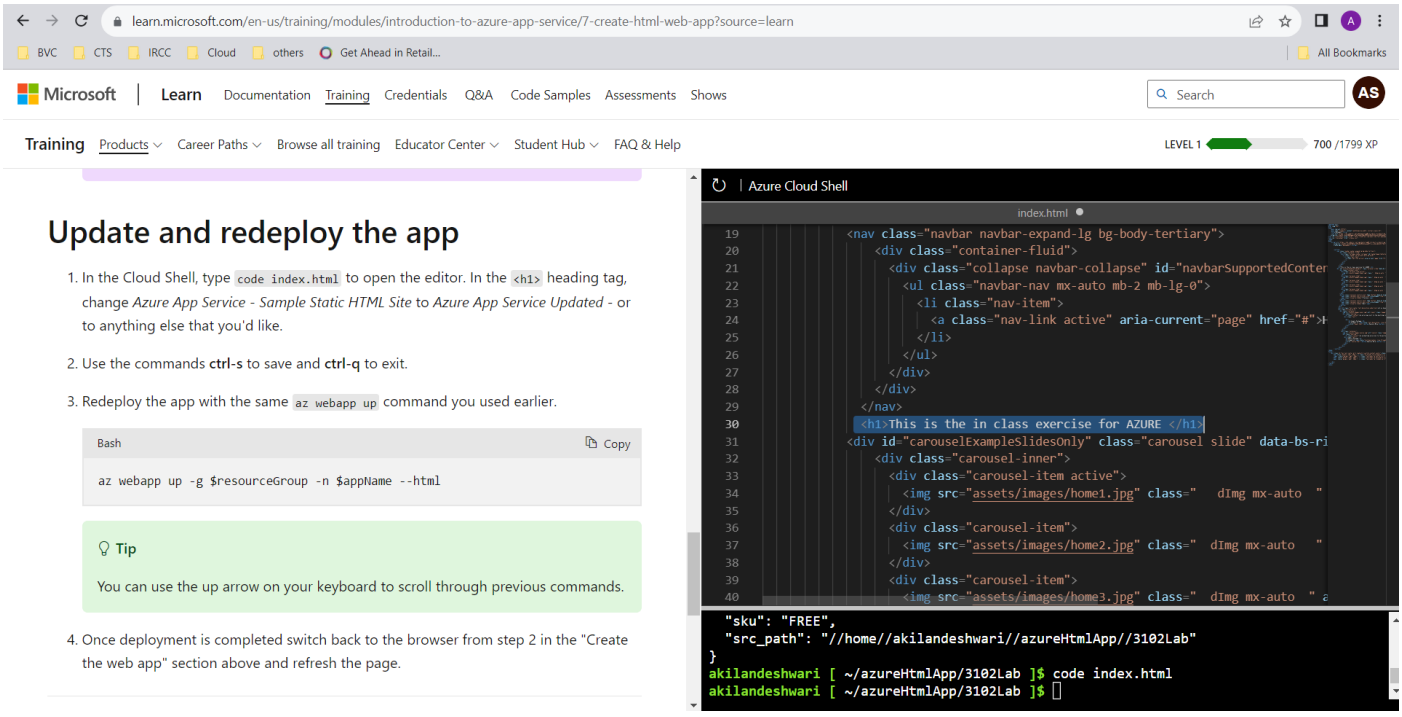
LEVEL 1 700 /1799 XP
Update and redeploy the app
1. In the Cloud Shell, type code index.html to open the editor. In the <h1> heading tag, change Azure App Service - Sample Static HTML Site to Azure App Service Updated - or to anything else that you'd like.
2. Use the commands ctrl-s to save and ctrl-q 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
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.m
integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2F
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/
<link rel="stylesheet" href="/styles.css">
</head>
<body>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.b
integrity="sha384-kenU1KFdBIe4zVF0s0G1M5b4hcpxyD9F7jL+jjXkk+Q2h455rYXK/7
crossorigin="anonymous"></script>
<section>
<nav class="navbar navbar-expand-lg bg-body-tertiary">

<div class="collapse navbar-collapse" id="navbarSupportedConter
<ul class="navbar-nav mx-auto mb-2 mb-lg-0">
"sku": "FREE",
"src_path": "//home//akilandeshwari//azureHtmlApp//3102Lab"
}
akilandeshwari [~/azureHtmlApp/3102Lab]$ code index.html
akilandeshwari [~/azureHtmlApp/3102Lab]$


learn.microsoft.com/en-us/training/modules/introduction-to-azure-app-service/7-create-html-web-app?source=learn
Microsoft | Learn Documentation Training Credentials Q&A Code Samples Assessments Shows
Search
AS
Training Products Career Paths Browse all training Educator Center Student Hub FAQ & Help
LEVEL 1 700 /1799 XP
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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
<nav class="navbar navbar-expand-lg bg-body-tertiary">

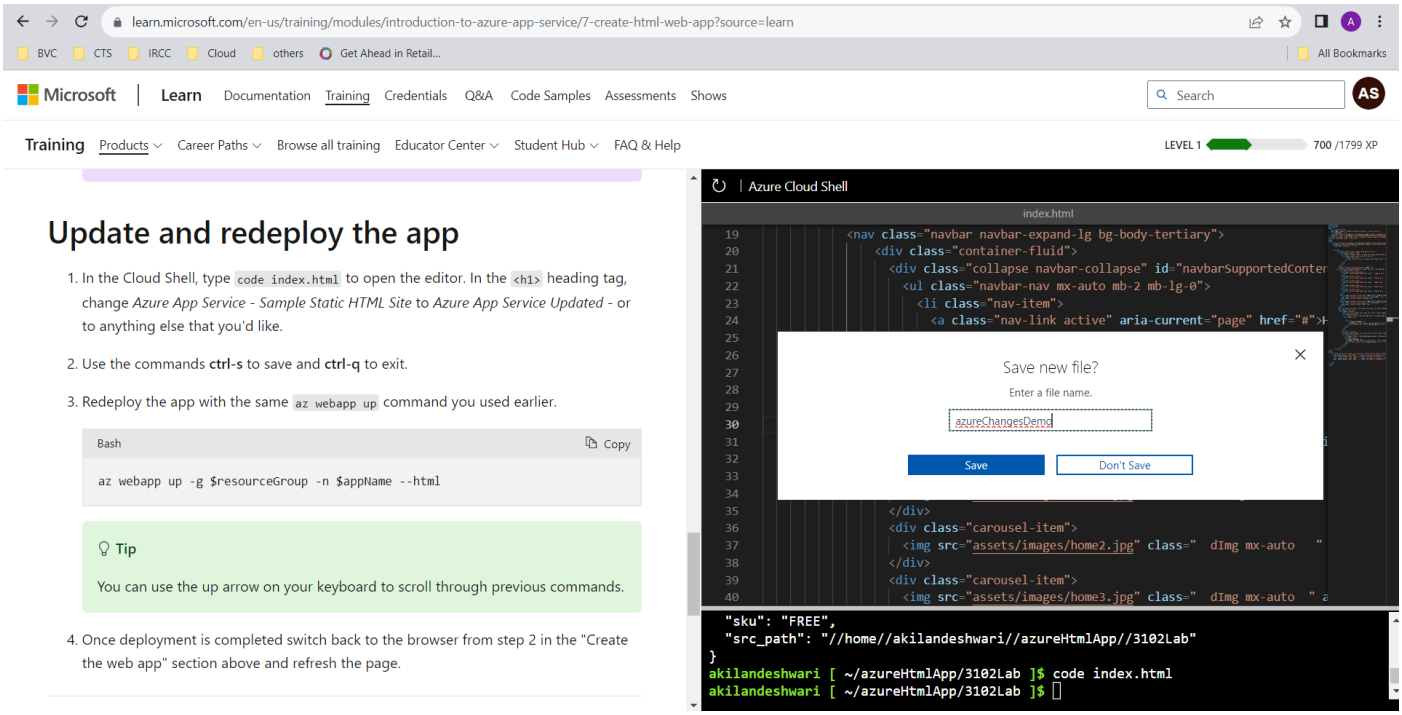
<div class="collapse navbar-collapse" id="navbarSupportedConter
<ul class="navbar-nav mx-auto mb-2 mb-lg-0">
<li class="nav-item">
<a class="nav-link active" aria-current="page" href="#">

</nav>
<h1>This is the in class exercise for AZURE </h1>
<div id="carouselExampleSlidesOnly" class="carousel slide" data-bs-ri

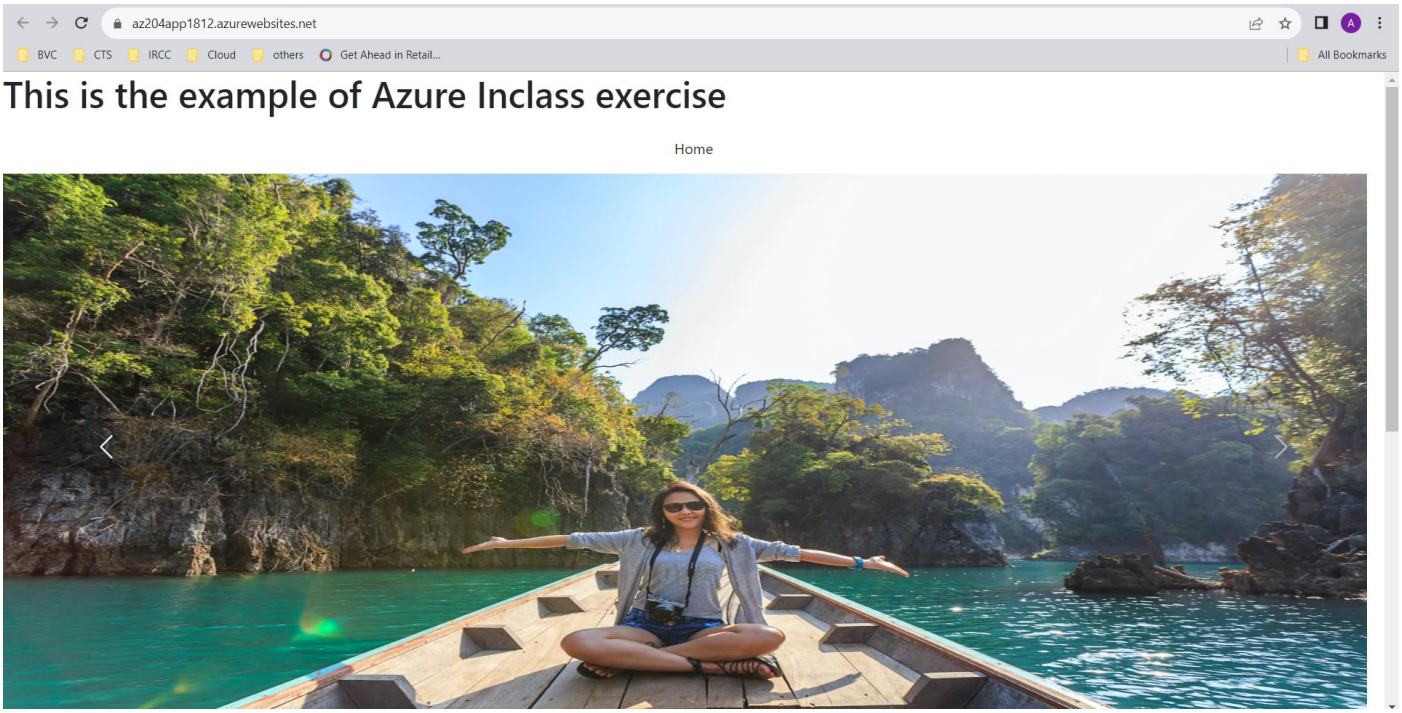
<img src="assets/images/home1.jpg" class=" dImg mx-auto "

<img src="assets/images/home2.jpg" class=" dImg mx-auto "

<img src="assets/images/home3.jpg" class=" dImg mx-auto " a
"sku": "FREE",
"src_path": "//home//akilandeshwari//azureHtmlApp//3102Lab"
}
akilandeshwari [~/azureHtmlApp/3102Lab]$ code index.html
akilandeshwari [~/azureHtmlApp/3102Lab]$



Changes implemented.



Reflection:

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