# Lab Instructions

For this assignment, you will be following 2 tutorials for creating an Azure Web App and an Azure Container Instance. Secondly, there are some questions to answer about how the different compute options compare.

### A. Azure Web App

Follow the tutorial to create an Azure Web App.

1. Create a static HTML web app in Azure: <https://docs.microsoft.com/en-us/azure/app-service/app-service-web-get-started-html>
   1. Use the default values given in the example
   2. Pick a creative app name
   3. Do not run the cleanup step
2. See submission section

### B. Azure Container Instance

Follow the tutorial to create an Azure Container Instance.

1. Deploy a container instance in Azure:

<https://docs.microsoft.com/en-us/azure/container-instances/container-instances-quickstart-portal>

* 1. Use the default values given in the example
  2. Pick a creative DNS label
  3. Do not run the cleanup step

1. See submission section

# Submission

For the submission:

1. Attach a screenshot showing your full browser so I can see the URL and the complete page contents for the Web App.
2. Attach a screenshot showing your full browser so I can see the URL and the complete page contents for the Container Instance.
3. Spend time doing some research and answer each of the following questions with a detailed paragraph \*each\*
   1. What are the main differences between Web Apps and Containers and why would you use one over the other?
   2. What benefits do Web Apps and Containers bring over the Web Servers we stood up on VMs for module 4?
   3. If you had to create a web application, which compute option (Web Apps, Containers, VMs) would you choose and why?

# Cost

Once you are done with the assignment, you will leave all the resources running for now. Here is an overview of what the cost will look like for each component:

1. **Azure App Service** – Azure offers a free tier for this service
2. **Azure Container Instance** – ACI is billed at the following rates: Memory: $0.0000013 per GB-s, vCPU: $0.0000113 per vCPU-s

*Details on what’s covered with Azure student credits:* [*https://azure.microsoft.com/en-us/free/students/*](https://azure.microsoft.com/en-us/free/students/)