**Group Project:**

**Azure Lab #31**

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**Exercise -  Scale a web app manually**

**Deployment Setup with Cloud Shell and Azure Portal**  
In this step, I used Azure Cloud Shell to set up the project. I cloned the repository using git clone, built the app, and then packaged it with zip website.zip \*. After that, I deployed it to Azure using a ZIP deployment. The Azure Portal confirms that the deployment was completed successfully and the app is now running in the cloud.

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This screenshot shows that the deployment of the HotelReservationSystem app to Azure was successful. In the Azure portal, the message “Your deployment is complete” confirms that everything worked. In the terminal below, you can see the zip deployment command and the success message. I also tested the web app by opening the API link in the browser. It returned a JSON response with reservation data, which means the web app is running and correctly configured.

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In this step, I edited the App.config file to connect the test client to my deployed Azure web app. I set the NumClients to 100 and inserted the correct URL for the ReservationsServiceURI. This setup makes sure that the client app will send requests to the right web service for the performance test.

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**Scale-Out 1 vs 5 Instance**

This chart shows the performance of the web app before and after scaling out. On the left side, with only 1 instance, the response time and error rate were higher. After increasing to 5 instances (right side of the red line), the CPU time increased slightly, but the average response time and HTTP errors decreased, showing that the app handled the load better.

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