

## Deployment Manual (User Instructions)

- **Create the Resource Group Manually**

Start by logging into the Azure Portal. From there, go to the “Resource Groups” section and create a new resource group. Choose a relevant name for it, you will need to use this name later when setting up your deployment. This step must be done manually before you start the automation process.

- **Save the Resource Group Name**

After creating the resource group, make a note of its exact name. You will enter this name in your YAML deployment file so that your resources are deployed in the correct group.

```
resourceGroupName: 'Extra_Credit_Assignment'
```

- **Go to GitHub and Set Up Secrets**

In your GitHub repository, navigate to the "Settings" tab. Under "Secrets and variables" in the "Actions" section, you will need to add two secrets:

- The first secret is called **AZURE\_CREDENTIALS**. This contains your Azure service principal credentials, which are required to authenticate and deploy resources from GitHub to Azure.

- ```
subscriptionId: ${ fromJson(secrets.AZURE_CREDENTIALS).subscriptionId }
```

- The second secret is called **ADMIN\_PASSWORD**. This will be used later during deployment to set the administrator password for your virtual machine or other resources.

```
parameters: |
  adminPassword=${ secrets.ADMIN_PASSWORD }
```

- **Trigger the Deployment**

Once your secrets are set up and the YAML file is correctly configured with the resource group name and secrets, you can commit and push your files to GitHub. This will automatically start the deployment process using GitHub Actions. You don't need to run any manual scripts or commands the entire deployment is automated.

- **Optional: Change the Admin Username**

If you want to set a different admin username (instead of the default one), open the `main.bicep` file and change the username there. This is useful if you're setting up multiple environments or users.

- **Optional: Customize More Settings**

If you want to adjust more parameters like machine size, location, or disk settings, you can do that by updating the parameter values inside the `main.bicep` file. There's no need to change the YAML or any other configuration files just modify the parameter values in the Bicep file.

- **That's It You're Done**

After following these steps, the deployment will take care of everything else automatically. Your resources will be provisioned in Azure with the settings you provided.