

## A.2 Infrastructure-as-Code: Getting to know Pulumi

### Objective

You will have successfully completed this assignment when:

- You have implemented and deployed infrastructure as code (IaC) using Pulumi.
- You understand how to configure and manage resources with Pulumi.

### Tasks

Pulumi allows you to define infrastructure using familiar programming languages, making your infrastructure scripts reusable and version-controlled. In this assignment, you will develop a Pulumi script to provision an Azure resource group and a storage account within it.

### Define Resources

1. Initialize a new Pulumi project for Azure.
2. Define a resource group using the Pulumi SDK.
3. Define an Azure storage account within the resource group. Ensure that the storage account properties, such as SKU and kind, are correctly set.

### Add Configurations

1. Add Pulumi configuration options for the storage account name, SKU, and location.
2. Modify your script to utilize these configuration values instead of hard-coded values.

### Deployment

1. Deploy your Pulumi script to create the resources in Azure. Use the appropriate Pulumi commands to initialize and apply your stack.
2. After deployment, verify that the resources are correctly provisioned in the Azure portal.

### Clean up

1. Once you have verified the resources, clean up by destroying the stack. Use the appropriate Pulumi command to remove all resources.

### Submission

Submit your Pulumi script