**Designing Microsoft Azure Infrastructure Solutions AZ:305**

Course-End Project Problem Statement

**Course-End Project**

**Automating Workloads Using ARM Template**

**Project Agenda:** Automating workloads using ARM template

**Description:**

The Rand Enterprises Corporation wants to test the ARM template to bring infrastructure as code into practice. They have decided to work on project RandEnt to verify the functionality.

The operations team at Rand decides to define the entire networking architecture using the ARM template, once that’s in place they intend to create the storage account along with virtual machines housing their application.

Rand Enterprises works extensively on delivering **Image-based content for their global audience in a secure** way by avoiding Azure Storage account access to the public internet. The communication from the application in the VM to the Azure Storage account must take place via the internal network of Azure.

The expectation of the operation team is to create a reusable template that can be used for automation. So, rather than deploying resources in Azure independently, they should leverage Azure ARM templates to deploy and provision all resources in template format.

As a security measure, you need to ensure that operation team can only deploy the resources mentioned in the requirement below and adhere to principle of least privilege.

**Tools Required:** An azure account with root access

**Expected Deliverables:**

Define access using RBAC for operation team

Define the network

Extend that with Compute & Storage

Create the Storage account container for Images & configure service endpoints

1. Create a resource.

A screenshot of a computer

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1. Select create a virtual machine.

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1. Created a new resource group and named it VM.

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1. Fill in the required information and then click on the Review + Create.

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1. Creating a storage account.

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1. Disabled public access to storage account.

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1. Created a private endpoint for the storage account.

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1. Downloading the ARM template from the resource group.

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Using both the template file and the parameters file, you can create a resource. When the resource is created it will include a VM, Storage account with network settings to block public access and only allow access through private endpoint.

A screenshot of a computer network

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