# Problem Statement:

Abstergo, a lifestyle company wants to have separate environment for different teams-a dev environment for development, a test environment for testing, and a production system environment. To make sure that the same build is deployed in the production which has been developed and tested in the same configuration, it is essential that all the environments are of the same configuration. Abstergo has decided to create an ARM Template to have all these three environments to have the same configuration. The company will be using this ARM Template to create these environments. You must create a Virtual machine with an SQL server installed through the ARM template.

# Steps to Perform:

* Create an ARM template using visual studio
* The template should have the parameters to create VM and SQL server inside it
* Deploy from the visual studio and create the VM with the SQL server
* Alternatively, use this JSON from Azure PowerShell to create VM in Azure

# Solution

1. Open Visual Studio and create a new project.

2. Select "Azure Resource Group" as the project type and give it a name.

3. In the "New Resource Group" dialog, select the subscription and resource group to use, and then click "Create".

4. In the "Azure Deployment Project" window, right-click on the project name and select "Add New Item".

5. Select "Azure Resource Group Template" and give it a name.

6. In the new template file, define the necessary resources such as virtual network, virtual machine, and SQL server.

7. Define the parameters for the resources, such as VM size, SQL server version, and administrator password.

8. Save the template file.

9. Right-click on the project name again and select "Add New Item".

10. Select "Azure Resource Group Deployment" and give it a name.

11. In the new deployment file, set the template file path and parameters for the deployment.

12. Save the deployment file.

13. Right-click on the project name and select "Deploy".

14. Select the subscription and resource group to deploy to, and then click "Deploy".

15. Wait for the deployment to complete, and then verify that the Virtual Machine and SQL Server have been created in the Azure portal.

Alternatively, you can also use Azure PowerShell to create the VM in Azure using the following JSON code:

New-AzResourceGroup -Name "MyResourceGroup" -Location "East US"  
  
New-AzResourceGroupDeployment `  
 -ResourceGroupName "MyResourceGroup" `  
 -TemplateFile "C:\ARMTemplate.json" `  
 -TemplateParameterFile "C:\ARMTemplateParameters.json"

Make sure to replace the file paths with the actual paths to your ARM template and parameter files.