

Business Context:

Infrastructure as code(IaC) is the practice of provisioning and managing computer data centers through machine-readable files, rather than through physical hardware or configuration tools. The resources that can be managed by this include bare-metal servers, as well as virtual machines and associated configuration resources.

Automation via IaC vastly simplifies the process of infrastructure procurement and can lead to a reduction in cost, faster deployment, and reduction of risk.

Learning Outcomes:

- 1) Write and deploy ARM templates
- 2) Deploy Azure Virtual machines
- 3) Deploy virtual networks and subnets
- 4) Create a network security group with a set of given rules

Problem statement

Create an ARM template, which deploys a VM and the associated networking infrastructure with the following parameters

- 1) OS: Windows 2019 datacenter
- 2) VM size : DS1_v2
- 3) Open ports: 3389
- 4) Storage option: Standard SSD

Other required values can be set as per your discretion

Submission of this assessment shall be done in the form of a pdf document containing the labeled screenshots of the ARM template files and the deployment process.

Marks Distribution:

- | | |
|---|----------|
| 1) Deployment of VM | 20 marks |
| 2) Deployment of virtual network | 15marks |
| 3) Deployment of Network Security Group | 15 marks |

