



Computer Science Department
Cloud Computing and Data Security (COMP 4381)
Second Semester 2023/2024

Assignment: Cloud computing Virtualization

Due Date 8/04/2024

This assignment involves creating HTML page on Microsoft Azure and introducing you to core Azure services like Virtual Machines and Azure App Service.

The Scenario: *You are a baker and want to showcase your delicious treats online. Build a simple website with your bakery information and contact details. Build the website on a Virtual Machine (VM) in the Azure portal.*

Your website should follow the following steps:

1. Create a Virtual Machine (VM): [Cloud Resource Management (40%)]

Your created Virtual Machines must have the following features:

- Your username should be your student ID, and the password should be your ID followed by the (@) symbol, then your name and family name; the first letter is **capitalised**; for example:

Username: 1234567,

password: 1234567@ReemAli

- Choose a subscription (a free tier should be available).
 - Select a resource group (create a new one or use an existing one).
 - Pick a virtual machine image (Windows Server 2022 Datacenter).
 - Configure VM size (choose a free tier option, Basic B1s).
2. Connect to your VM: [Remote Access (10%)] Once the VM is created, locate the "Connect" button and choose either RDP or SSH, depending on your OS preference.

3. Install a Web Server: [Web Server Configuration (30%)] On your VM, you'll need to install a web server like Internet Information Services (IIS) for Windows or Apache for Linux.
4. Create a Simple Webpage: [Web Development (10%)] Create a basic HTML file with your bakery information, pictures (optional), and contact details. You can use a basic code editor like Visual Studio Code.
5. Configure the Web Server: [Web Server Configuration (5%)] Configure your chosen web server to serve the HTML file you created. This will involve setting up the appropriate directory for your website files.
6. Test your Website: [Website Deployment & Testing (5%)] Once everything is set up, try accessing your website by opening a web browser and entering the public IP address of your VM. You should see your bakery website.

Your submission file should include a screenshot for each step, a brief explanation, and the IP address of your VM. You must submit your work before the due date which is on 08/04/2024 at 12:00 AM.