📄 Deployment Task 3 Report

Student Details

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Unit Code & Name: SWE40006 – Software Deployment and Evolution

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Due Date: 14 September 2025

**Task Level Attempted:** Task 3.3 – High Distinction (includes 3.1 Pass, 3.2 Credit, 3.3 HD)

**1. Introduction**

This report documents the steps I followed to deploy different types of applications to Microsoft Azure using Visual Studio and Kudu. The objective of Task 3 was to successfully deploy a simple ASP.NET/C# web app and extend this with a PHP app to demonstrate multi-language deployment on Azure. Evidence of completion, including screenshots and deployment URLs, is provided.

**2. Task 3.1 – Pass (Deploying an Existing ASP.NET App)**

**Steps Taken**

1. Installed **Visual Studio Community 2022** with ASP.NET and Azure workloads.
2. Created a new ASP.NET MVC project (EasyCRM.UI) with **Individual Accounts authentication**.
3. Verified the app by running it locally in Visual Studio using **Ctrl + F5**.
4. Published the project to Azure App Service using **Right-click → Publish → Azure App Service (Windows)**.
5. Configured app name, resource group, and region (**Asia**) before deployment.
6. Verified successful deployment at:
7. https://<yourappname>.azurewebsites.net

**Evidence**

📸 *Figure 1: Running ASP.NET MVC app locally in Visual Studio.*

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📸 *Figure 2: Publish profile showing successful deployment to Azure.*

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📸 *Figure 3: Live ASP.NET app running on Azure App Service.*

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**3. Task 3.2 – Credit (Customising, Deploying, and Deactivating the C# App)**

**Steps Taken**

1. Modified **HomeController.cs** to display a custom message using ViewBag.Message.
2. public ActionResult Index()
3. {
4. ViewBag.Message = "Hello from my C# app deployed on Azure!";
5. return View();
6. }
7. Updated **Index.cshtml** to render this message above the default content.
8. <h2 style="color:darkblue;">@ViewBag.Message</h2>
9. Re-deployed the modified app to the same Azure App Service.
10. Verified the change live on Azure by refreshing the URL.
11. Used **Azure Portal → App Services → Stop** to deactivate the app, confirming that the URL became inaccessible.

**Evidence**

📸 *Figure 4: Customised ASP.NET MVC app running locally with modified message.*  
📸 *Figure 5: Updated C# app live on Azure App Service.*

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📸 *Figure 6: Azure portal showing app deactivated (Stopped status).*

**4. Task 3.3 – High Distinction (Deploying a PHP App via Kudu)**

**Steps Taken**

1. Created a new Azure Web App in the **Asia region** with **Runtime Stack: PHP 8.x**.
2. Opened **Kudu Bash Console** from Azure Portal (Advanced Tools → Go → Debug Console → Bash).
3. Navigated to the /site/wwwroot directory.
4. cd /home/site/wwwroot
5. Used an inline command to create index.php directly on the server:
6. echo "<?php echo '<h1>Hello Azure from PHP!</h1>'; ?>" > index.php
7. Confirmed the file was created:
8. ls -l
9. Opened the app URL in a browser:
10. https://task3-hd-104187075.azurewebsites.net

→ Displayed **“Hello Azure from PHP!”** successfully.

**Evidence**

📸 *Figure 7: Kudu Bash console showing creation of index.php in /site/wwwroot.*

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📸 *Figure 8: Browser output of the PHP app running live on Azure.*

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**5. Error Analysis**

* While working with Azure, I initially expected to find a **Zip Deploy option** in Deployment Center, but it was not available.
* To resolve this, I switched to **Kudu Bash** and used shell commands to create and manage files directly in /site/wwwroot.
* This approach avoided issues with file uploads and confirmed that even minimal command-line deployment works.

**6. Conclusion**

This task gave me practical experience deploying both **ASP.NET MVC** and **PHP** applications to Azure App Service. I learned how to configure, publish, customise, and deactivate apps through Visual Studio, as well as how to deploy and manage files via Kudu Bash commands. Completing Task 3.3 with command-line deployment built my confidence in handling different environments and troubleshooting missing deployment options in Azure.

The final outcome was two functioning applications hosted on Azure:

* ASP.NET MVC app (<yourappname>.azurewebsites.net)
* PHP app (https://task3-hd-104187075.azurewebsites.net)

Both deployments demonstrate the skills required for High Distinction.

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