

Azure Website Migration Project

Team Members



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What the project solves ?

Scalability

Azure App Service provides manual scaling to handle traffic variations efficiently.

Maintenance

Cloud-Based Hosting reduces operational costs by eliminating physical infrastructure needs, "PaaS".

Security

Microsoft Entra Authentication enhances security with identity and access management.

Reliability

High Availability & Redundancy in Azure ensure minimal downtime and disaster recovery options.

Management

Automated management & monitoring with Azure tools simplifies updates and performance tracking.

Accessibility

Cloud Accessibility allows secure remote access from anywhere, improving productivity and collaboration.

Week one process

“ Creating the source environment on Azure ”

Creating a “VM” on Azure

A fully configured VM with IIS services ready to host the “on-premises” website.

Landing on “WS 2022”

Windows Server 2022 image with IIS (Internet Information Services) enabled.

Scaling Availability

Three fault domains and two update domains for high availability.

Week two process

“ Building the Landing Zone Website “

Creating an Azure App Service

Standard Plan (Standard S1) and ASP.NET 4.8 framework and using Microsoft Entra authentication for secure access

Scaling Out

Manual scaling with a maximum of three instances for flexibility. Creating a Staging Slot.

Verifying Reachability

Verified website reachability from a local machine.

Week three process

“ Import Website into IIS Server [Source Server] “

Downloading “Blue Shift” Website files

Instead of downloading a sample website, a custom website was built from scratch. It includes:

- Project overview
- Timeline
- Team members

Publishing the Website

Published from Visual Studio 2022 using “Self-contained” deployment

Creating a Website in “IIS” server & checking it

Created and hosted the published website on IIS Server by copying files to wwwroot, then verified functionality via local/private IP in the browser.

Microsoft Cloud Adopt for Azure:

1. Define strategy
2. Plan
3. Ready
4. Adopt
5. Govern
6. Manage

Week four process

“ Migration From On-Premises to cloud “

Create Azure Migration project

Create a Database project through Azure migrate.

Migrate the website and check reachability

Create assessment for On-primis website.

Check reachability after migration.

Add a domain name and certificate

Add a custom domain name on app service.

Thank You