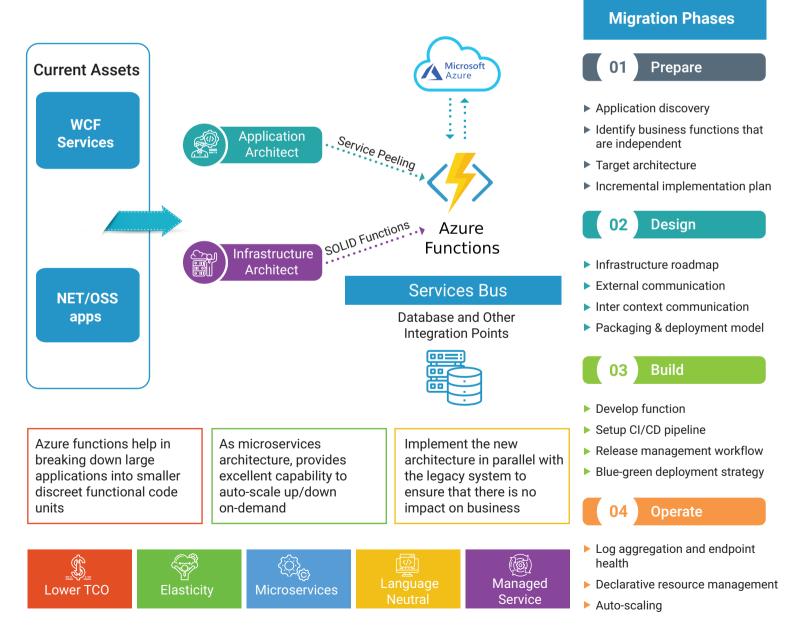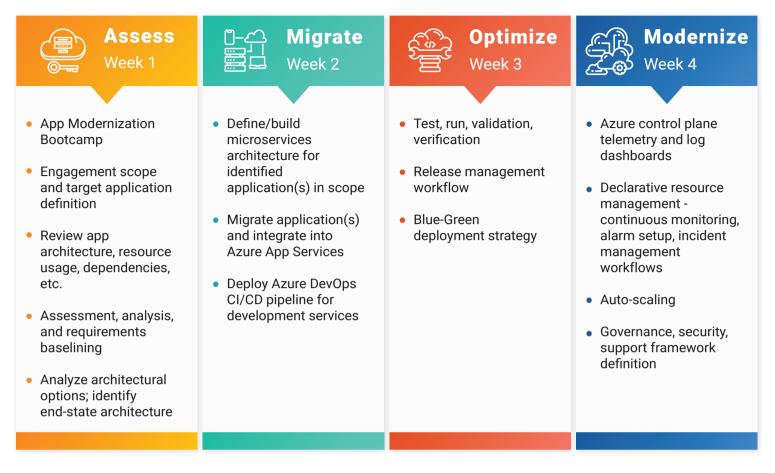# Nous App Modernization Bootcamp: 4-Week Proof of Concept

Nous App Modernization Bootcamp is a consulting service that will demonstrate the benefits of modernizing applications using Azure Functions or Azure App Services based architecture. The offer includes modernizing a selected application in the customer's environment.

Solution Overview

Current Assets

WCF Services

NET/OSS apps

Application Architect — Service Peeling → Microsoft Azure → Azure Functions

Infrastructure Architect — SOLID Functions → Azure Functions

Services Bus
Database and Other Integration Points

Azure functions help in breaking down large applications into smaller discreet functional code units

As microservices architecture, provides excellent capability to auto-scale up/down on-demand

Implement the new architecture in parallel with the legacy system to ensure that there is no impact on business

Lower TCO | Elasticity | Microservices | Language Neutral | Managed Service

Migration Phases

01 Prepare
- ▶ Application discovery
- ▶ Identify business functions that are independent
- ▶ Target architecture
- ▶ Incremental implementation plan

02 Design
- ▶ Infrastructure roadmap
- ▶ External communication
- ▶ Inter context communication
- ▶ Packaging & deployment model

03 Build
- ▶ Develop function
- ▶ Setup CI/CD pipeline
- ▶ Release management workflow
- ▶ Blue-green deployment strategy

04 Operate
- ▶ Log aggregation and endpoint health
- ▶ Declarative resource management
- ▶ Auto-scaling

Engagement Plan

Assess
Week 1

- App Modernization Bootcamp
- Engagement scope and target application definition
- Review app architecture, resource usage, dependencies, etc.
- Assessment, analysis, and requirements baselining
- Analyze architectural options; identify end-state architecture

Migrate
Week 2

- Define/build microservices architecture for identified application(s) in scope
- Migrate application(s) and integrate into Azure App Services
- Deploy Azure DevOps CI/CD pipeline for development services

Optimize
Week 3

- Test, run, validation, verification
- Release management workflow
- Blue-Green deployment strategy

Modernize
Week 4

- Azure control plane telemetry and log dashboards
- Declarative resource management - continuous monitoring, alarm setup, incident management workflows
- Auto-scaling
- Governance, security, support framework definition

Deliverables

- Azure App Services Workshop
- Azure governance, policies, and security blueprints
- Fully architected and modernized application in customer Azure account for selected application(s) and use case(s)

- Modernization approach documentation
- Azure DevOps CI/CD pipeline with automated tasks
- Best practice guide to operate and manage Azure App Services environment

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