

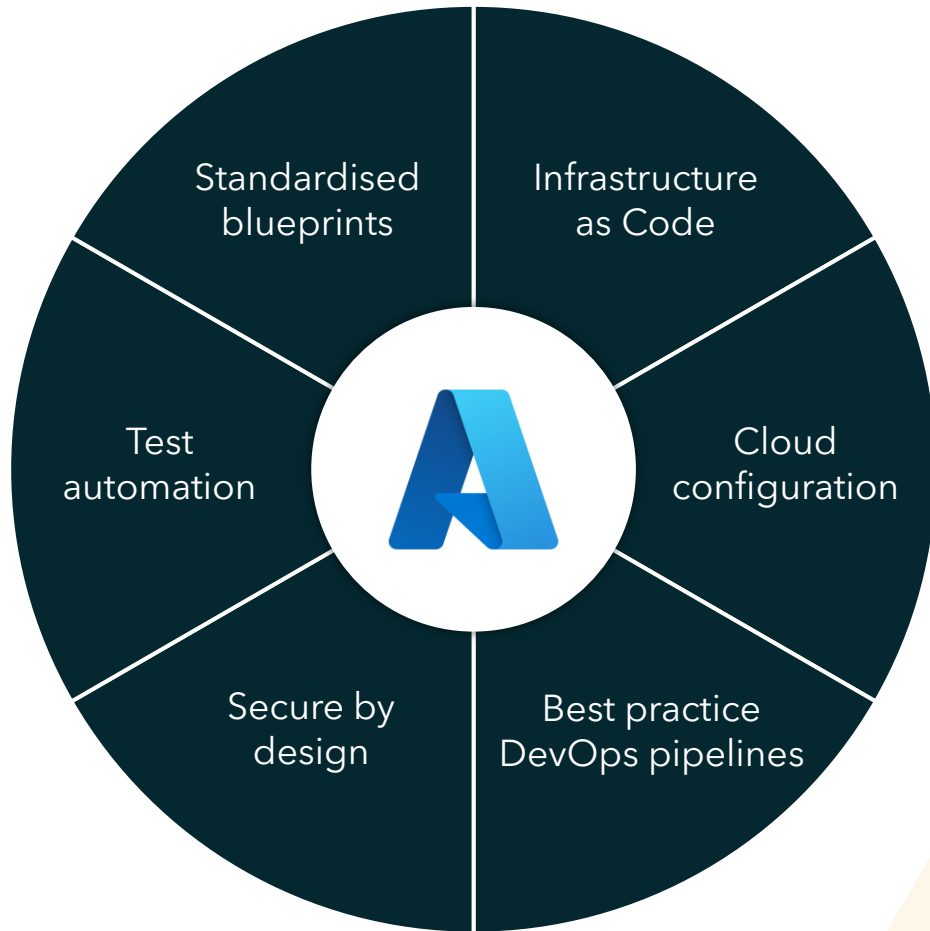


Foundations by Version 1

Cloud-Native Acceleration on Microsoft Azure

Foundations: Our Cloud Native Development Accelerator

Why waste time building everything from scratch? Our Accelerator templates provide strong Foundations for your cloud native development on Microsoft Azure.



What's included

Advanced starting point for cloud native development

Focused on **non-functional requirements**

Accelerate modernisation by up to 91 days

De-risk outcomes by using a proven and secure approach

Allows you to focus more quickly on **delivering business value**



What Is Foundations?

- Pre-configured solution templates which act as an advanced starting point to accelerate your Azure Enterprise Application Development
- Supports many common solution requirements including web applications, API development, data integration, reporting & more
- Includes reference implementation for many common Azure PaaS services
- Focuses on implementation of best practice Non-Functional Requirements (NFRs)
- Foundations represents our "toolkit" for cloud native development
- Enables us to deliver real business benefits for you more quickly



Delivering real Benefits

Our Azure Application Development Accelerator provides solution templates that will help deliver real benefits to you



Faster Delivery

Accelerating delivery with automation and pre-built recipes for common workloads



Reduced Risk

Reduced risk using battle tested solutions and automation



Increased Quality

Increased quality through standardisation and automation



Secure by Design

System architecture that emphasizes the proactive integration of security measures



Increased Agility

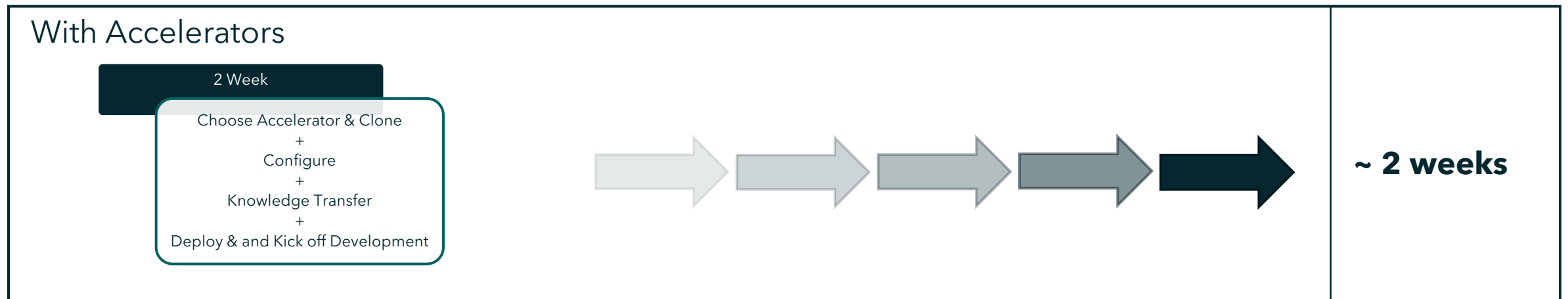
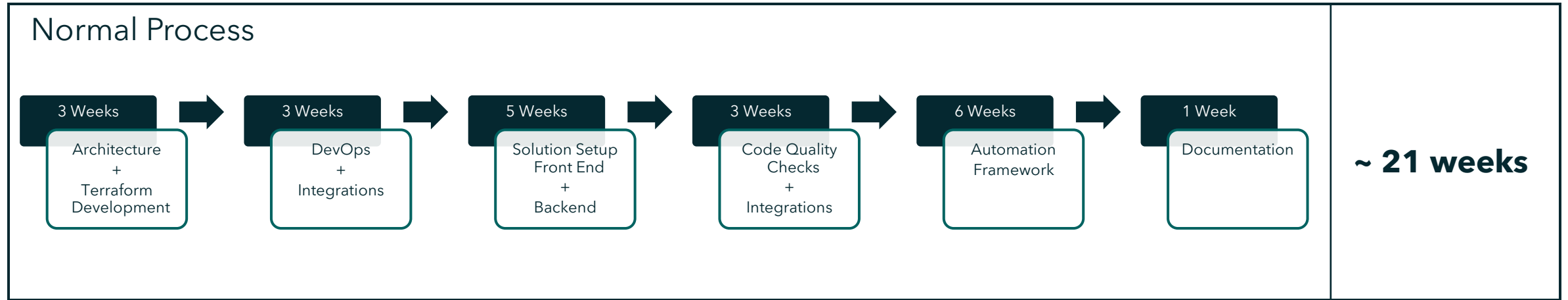
Flexibility, scalability, competitive advantage, speed



Focus on what matters

Aligning your efforts with your organization's strategic goals, user needs, and cost-efficiency

Accelerating your application development



National Incident Liaison Officer (NILO) project for National Highways

Challenge

To enhance communications and increase road safety, the customer sought to monitor and report occurrences more effectively. It was necessary to replace existing legacy systems and enable modernised processes with tight delivery deadlines, which called for an innovative approach.

Solution

Modernising a Mission Critical Incident Management and Road Safety system, essential to the smooth running of England's roads was a considerable undertaking.

We quickly scaled up a team and initiated a 3-month modernisation project. We used our Application Modernisation accelerator (**Foundations**), re-architecting the current legacy system, to build an Azure Cloud Native solution. Despite a tight deadline, we delivered on time, within budget, and with exceptional results by keeping the business need and value front and centre.

Outcomes

150% faster reporting.

50% faster incident creation.

82% faster incident updates and closures.

"NILO reporting is now a faster more comprehensive reporting service than ever before ensuring National Highways customers have a better experience, stress free journeys and improved journey times when travelling."

Tim Priest, National Operations Team Leader, National Highways

Microsoft
2023 Partner of the Year

Winner
Modernizing Applications Award

Global Partner of the Year

Version 1 named as Microsoft's Global Partner of the Year 2023 for Modernising Applications.

- Major global recognition coming directly from our partnership with National Highways and the innovative modernisation and transformation of their critical but legacy National Incident Liaison Officers application (NILO).



2023 Partner of the Year

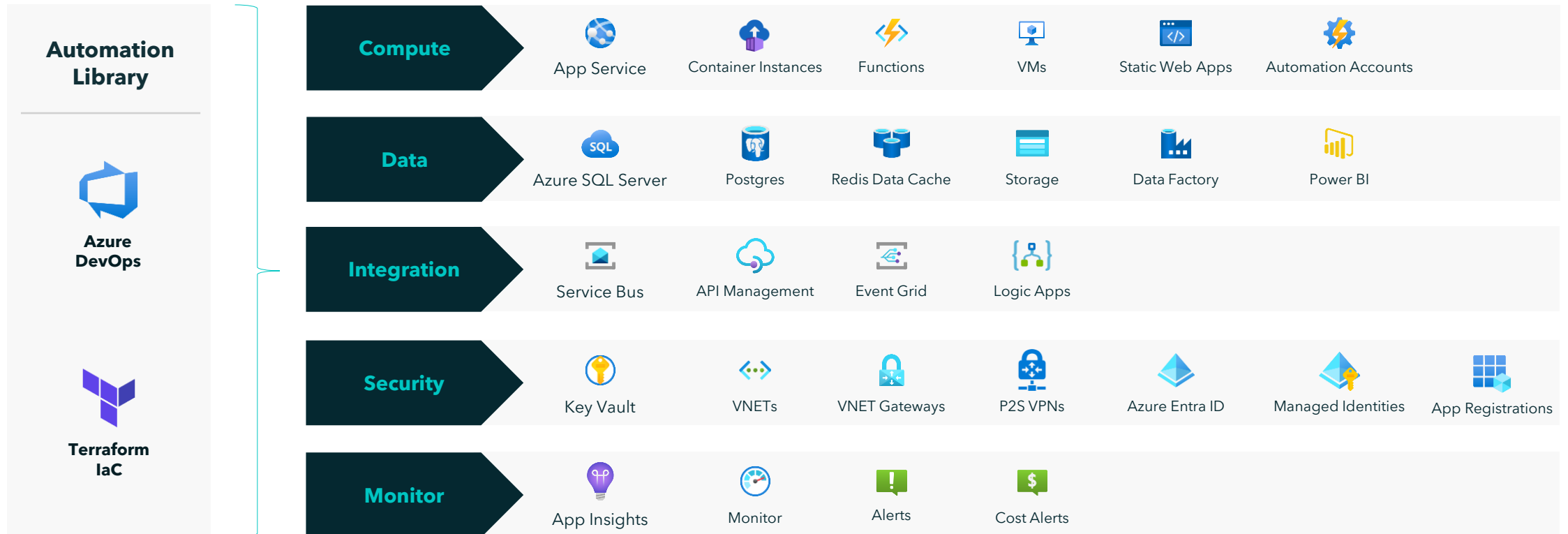
Winner

Modernizing Applications Award

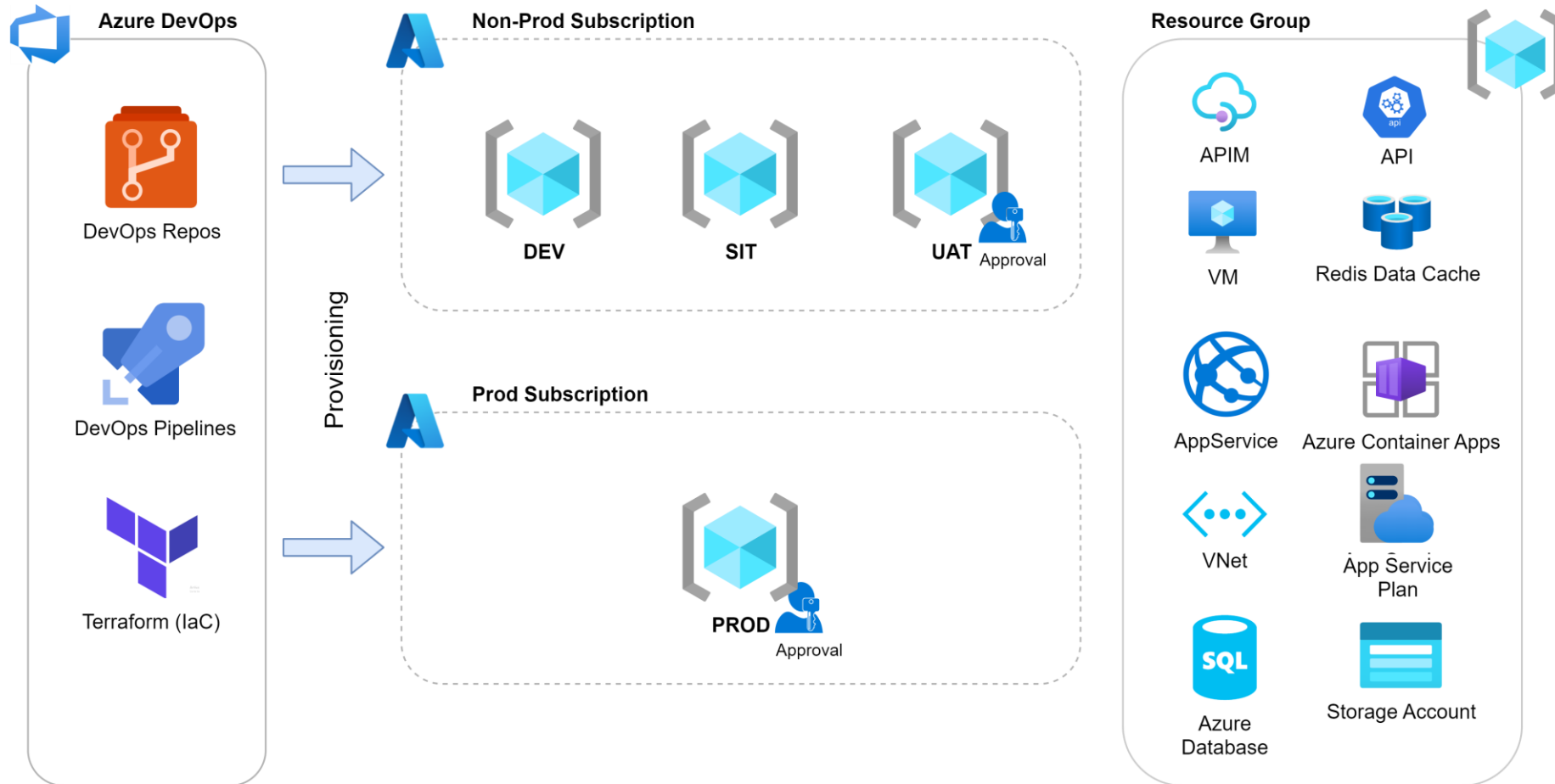


Our Library of Preconfigured and Automated Azure Services

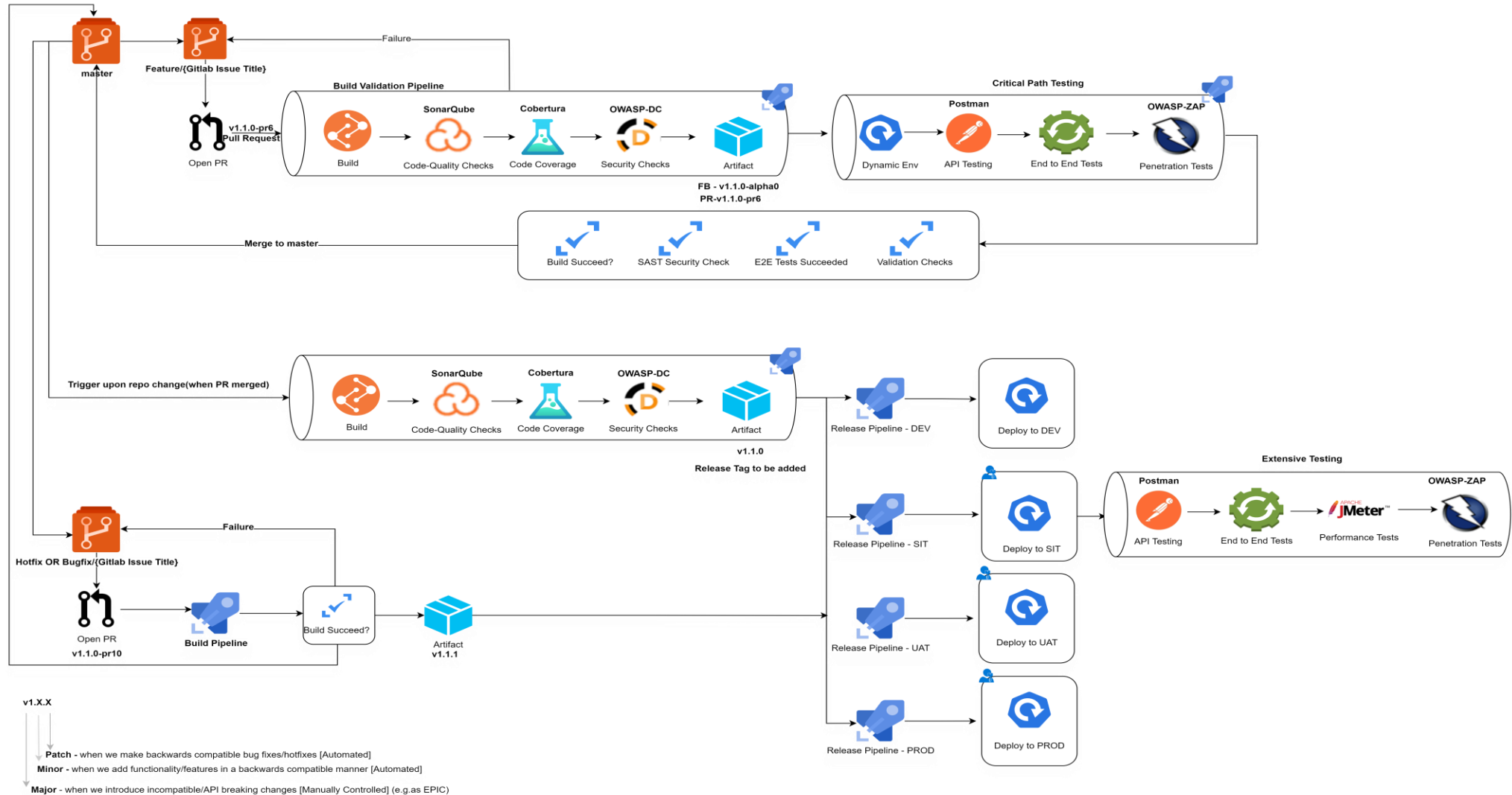
We can automatically provision and configure the most common services required for your needs



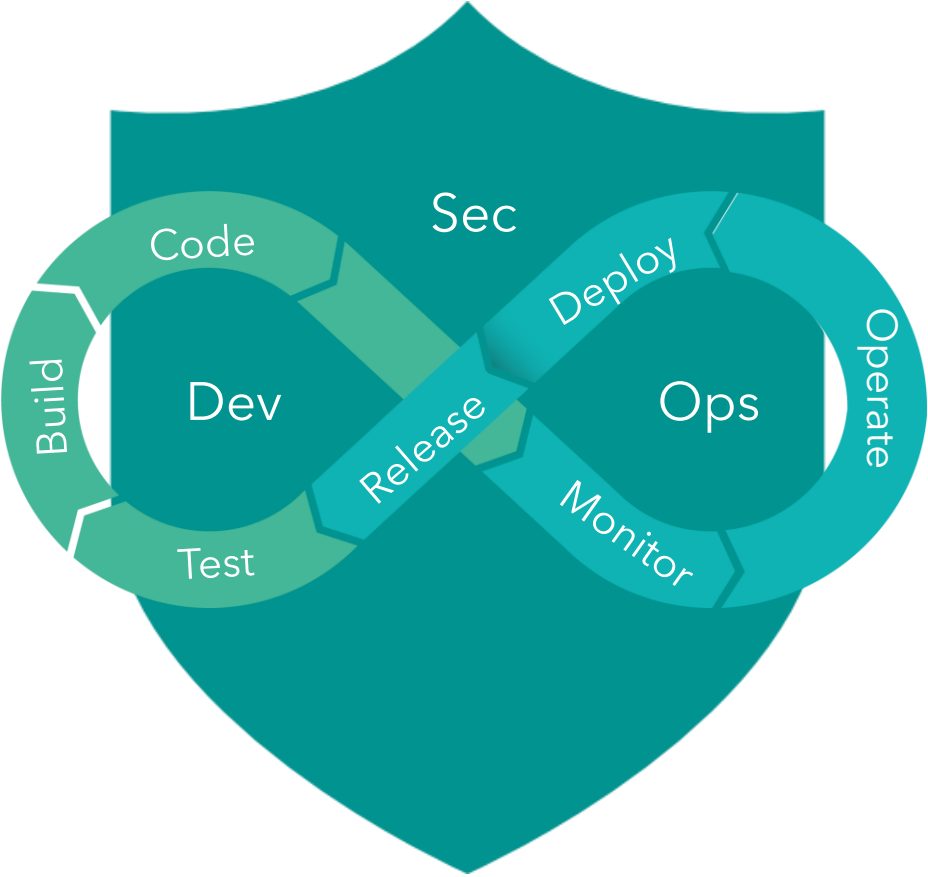
Infrastructure as Code to automate environment creation












Best Practice DevSecOps pipelines



Secure by Design



-  **Static Application Security Test (SAST)** via SonarQube (CI)
-  **Dynamic Application Security Test (DAST)** via OWASP ZAP (CD)
-  **Secrets Scanning** via pre-commit hooks and SonarQube
-  **OWASP Top 10 Vulnerability Checks** via OWASP ZAP
-  **Software Component Analysis (SCA)** via OWASP DC and Mend Bolt
-  **Hardened, Secure Environment Provisioning** via Terraform IaC
-  **Infrastructure as Code Analysis** via TFSec
-  **Azure Security Recommendations** via Azure DevOps plugin
-  **Principle of Least Privilege** via Infrastructure as Code

Multiple Frontends to choose from



Angular

- ✓ Angular + Nx structure with mono repo micro front-end capabilities.
- ✓ Built on top of Angular Material.
- ✓ Syntactically Awesome Style Sheets(SASS).
- ✓ Follows Block Element Modifier(BEM) naming convention.
- ✓ Customisable theme format.
- ✓ **Azure Static WebApp** to deploy an Angular solution.
- ✓ Unit Testing with Jest, Karma, and Jasmine.



React

- ✓ React + NextJS structure
- ✓ Build on material design
- ✓ Customisable theme format
- ✓ Dark theme enabled
- ✓ Responsive Web Design
- ✓ Azure Active Directory (AAD)
- ✓ **Azure Static WebApp** to deploy an React solution

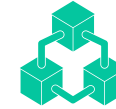


Blazor

- ✓ Blazor Server App
- ✓ Build on Radzen with 70+ open source Blazor UI Controls
- ✓ Responsive Web Design
- ✓ A component model for building composable UI
- ✓ Live reloading in the browser during development



Angular + Nx



Clean Structure



Angular Material



Best Practices



Entra ID



ADO Pipelines



App Insights



Unit Testing



Responsive Web Design



Entra ID B2C



Material Design

Multiple Backends to choose from

.NET 7.0

.NET

- ✓ Clean Architecture design using Mediatr and Dependency Injection Patterns
- ✓ with loosely coupled layers
- ✓ .NET 7 Framework with Minimal API
- ✓ Solution connected to Azure SQL Database using **Dapper**
- ✓ Solution connected to Azure SQL database using **Entity Framework Core**
- ✓ **Redis Cache** Implementation
- ✓ Fluent Validations
- ✓ Integrated with Swagger UI for APIs for easy collaboration

Java

Java

- ✓ MVC-based architecture
- ✓ Java 11 framework - **Sprint Boot with JPA + Hibernate**
- ✓ **Lombok** used to replace boilerplate code
- ✓ Logging with SLF4j (Java)
- ✓ Integrated with Swagger UI for APIs for easy collaboration
- ✓ Unit Testing with Junit5 (Java)



Minimal APIs

.NET 6



Clean Architecture

Unit.net

Unit Testing



Security Testing



Best Practices



Entra ID



Azure SQL



App Insights



Key Vault



Unit Testing

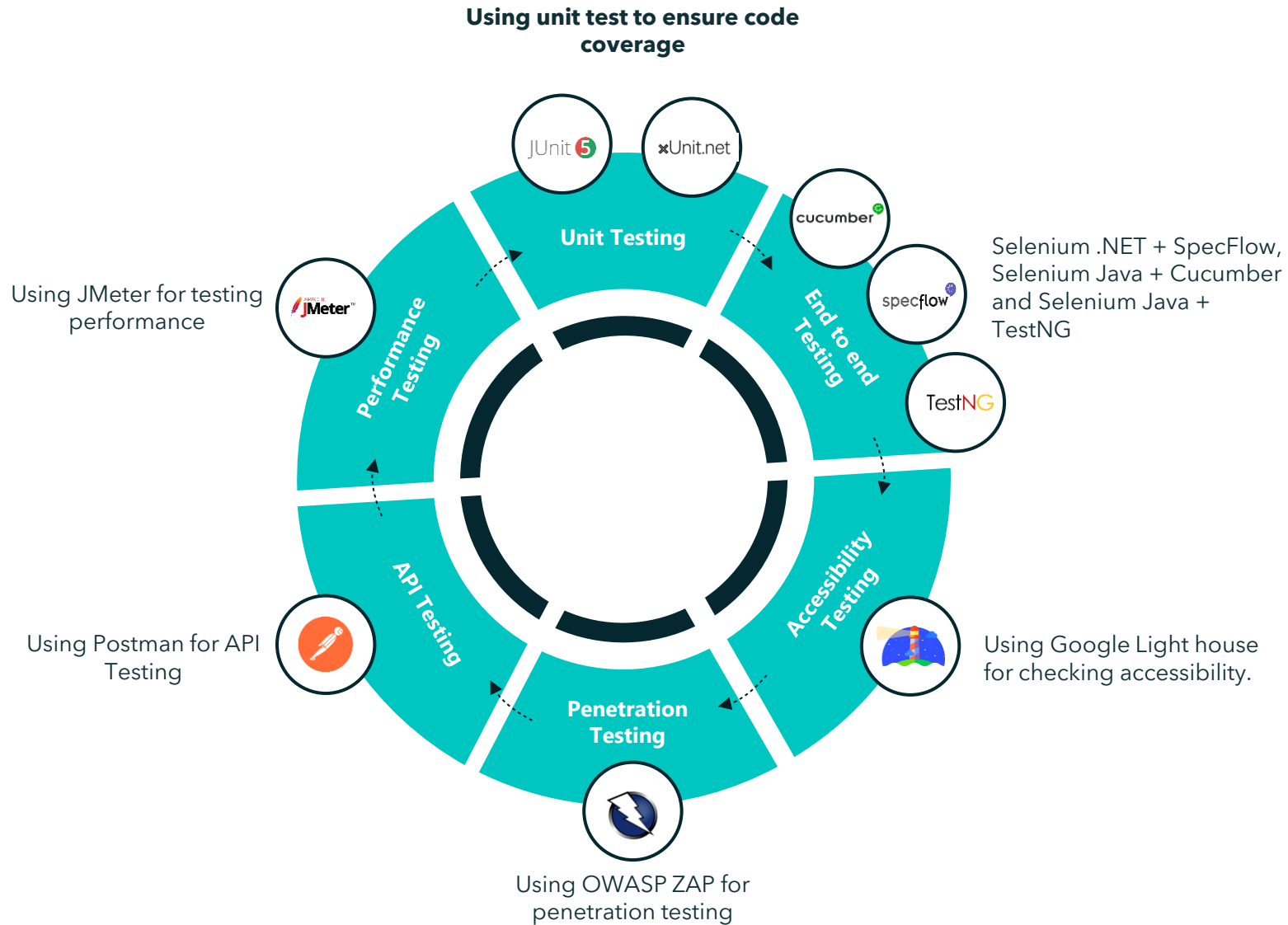


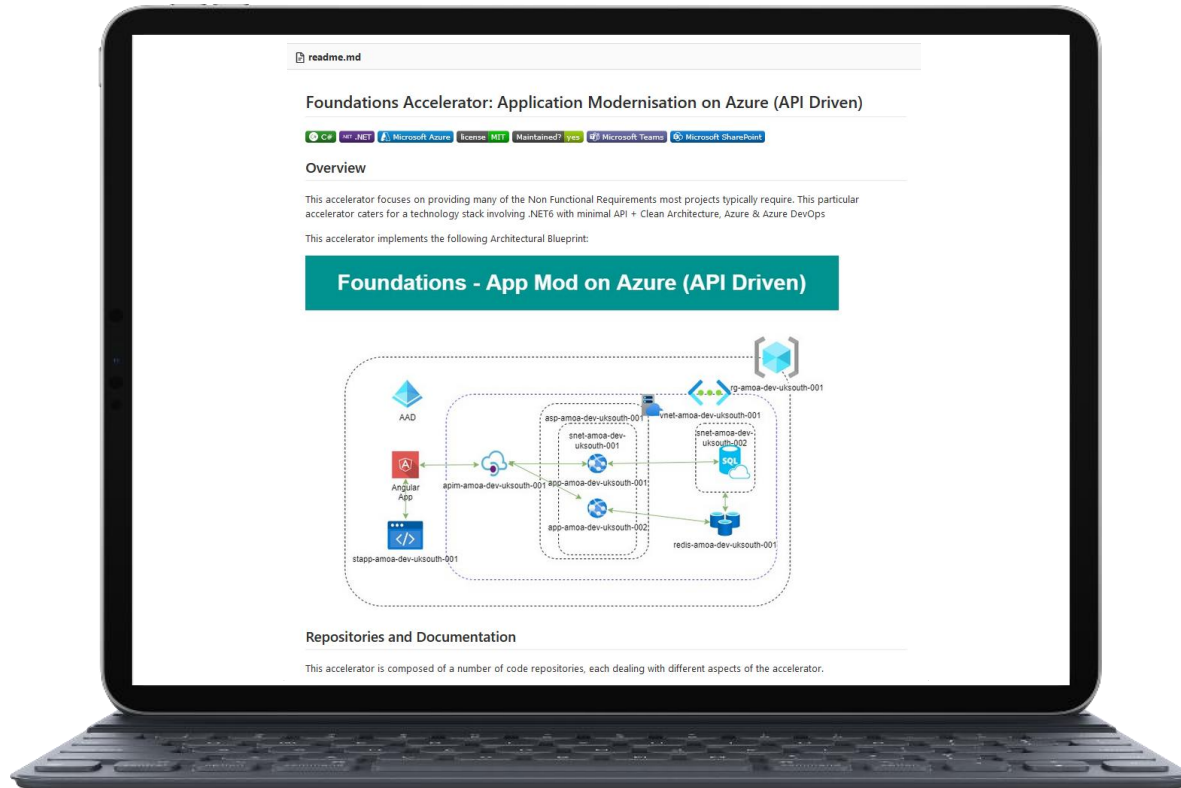
Swagger UI



Lombok

Comprehensive Test Automation pack





Extensive Developer Documentation

Documentation as Code approach with detailed guides on installation, getting started, and extending the solution.



Thank you

For more information,
please visit version1.com