

CAF Aligned Azure Landing Zone

Accelerate your adoption of Azure Services through the
Version 1 Azure Landing Zone

Azure Landing Zone Approach

Our Microsoft Cloud Adoption Framework aligned methodology brings design and implementation best practices to Azure Landing Zone deployment

Collaborative Approach to Design



Bring experience from similar deployments with other customers



Design workshops to understand exact requirements



Low-Level Design(LLD) document produced prior to deployment



Customer review cycle to ensure solution appropriately addresses requirements



Agreed LLD taken forward to deployment phase

Best Practice Implementation



Landing Zone deployed from existing Accelerator IP using DevOps tooling and methodology



Code retained within customer organisation for future maintenance and management

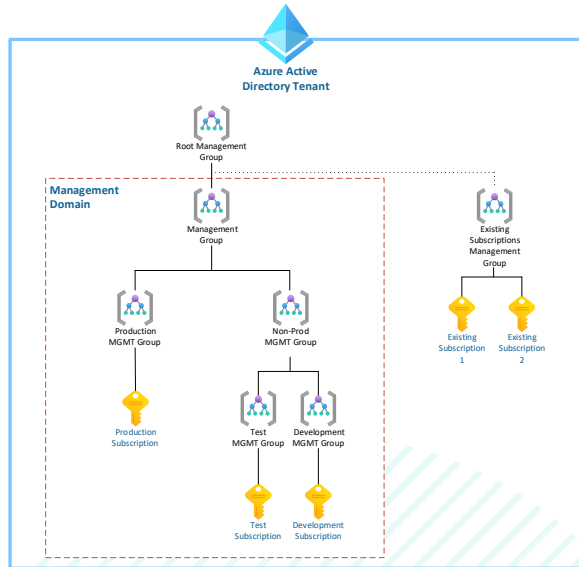


Solution aligns with NCSC Cloud Security Principals



Cloud Adoption Framework Design Areas addressed by solution

What is a Landing Zone and how can it accelerate your ability to use Azure?



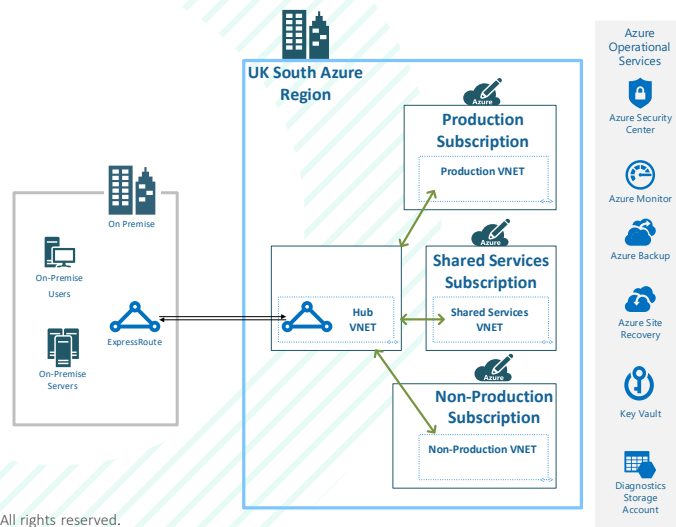
Version 1 Azure Landing Zone

- A tried and tested code first approach to building and maintaining security, governance, networking and identity in Azure.
- An extensible accelerator that gives you best practice secure by design foundational Azure components from which to start your journey in Azure or level up your existing deployments
- Terraform based – an industry standard widely adopted and mature open-source Infrastructure as Code (IaC) software tool.
- Automation at its core – support for automated deployment and management of the Landing Zone using Azure DevOps

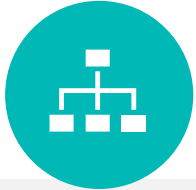


Accelerate your Azure journey

- A Landing Zone provides you with the foundations to enable workload migrations and development of new applications leveraging Azure services
- Gives you management, governance and security of your Azure subscriptions out of the box
- Foundational services (Networking, Identity, Governance, Policy) in a best practice configuration out of the box
- Enables you to leverage DevOps practices and processes in managing your Azure infrastructure in the Landing Zone and beyond



Azure Landing Zone Guardrails



Tenancy Structure

- Management Groups
- Subscriptions



Identity

- AzureAD
- RBAC
- Groups and Policy



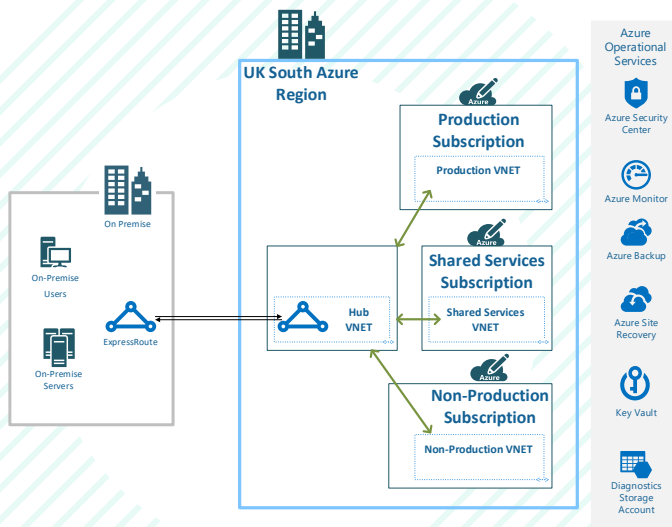
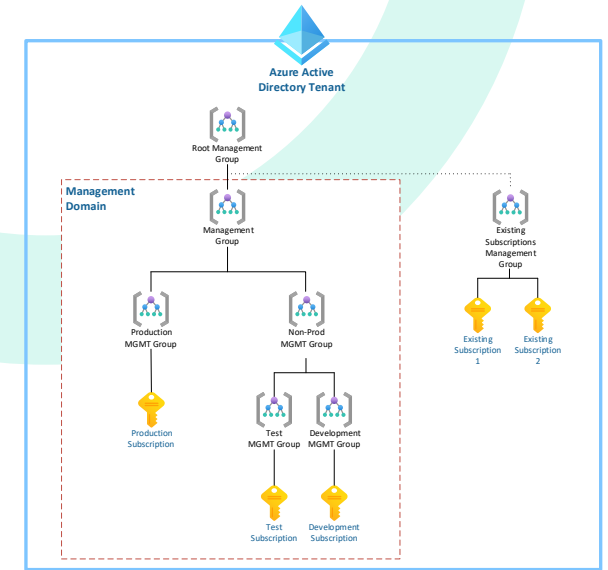
Networking

- Hub and Spoke
- Standard VNet design
- Firewall
- NSGs



Backup / DR

- Backup Center
- Multi-Region
- Recovery Vaults



Governance/Compliance

- Azure Policy
- CIS Benchmark
- Naming Conventions
- Tagging Policy



Security

- Defender for Cloud
- Secrets Management
- Encryption
- Secure Remote Access

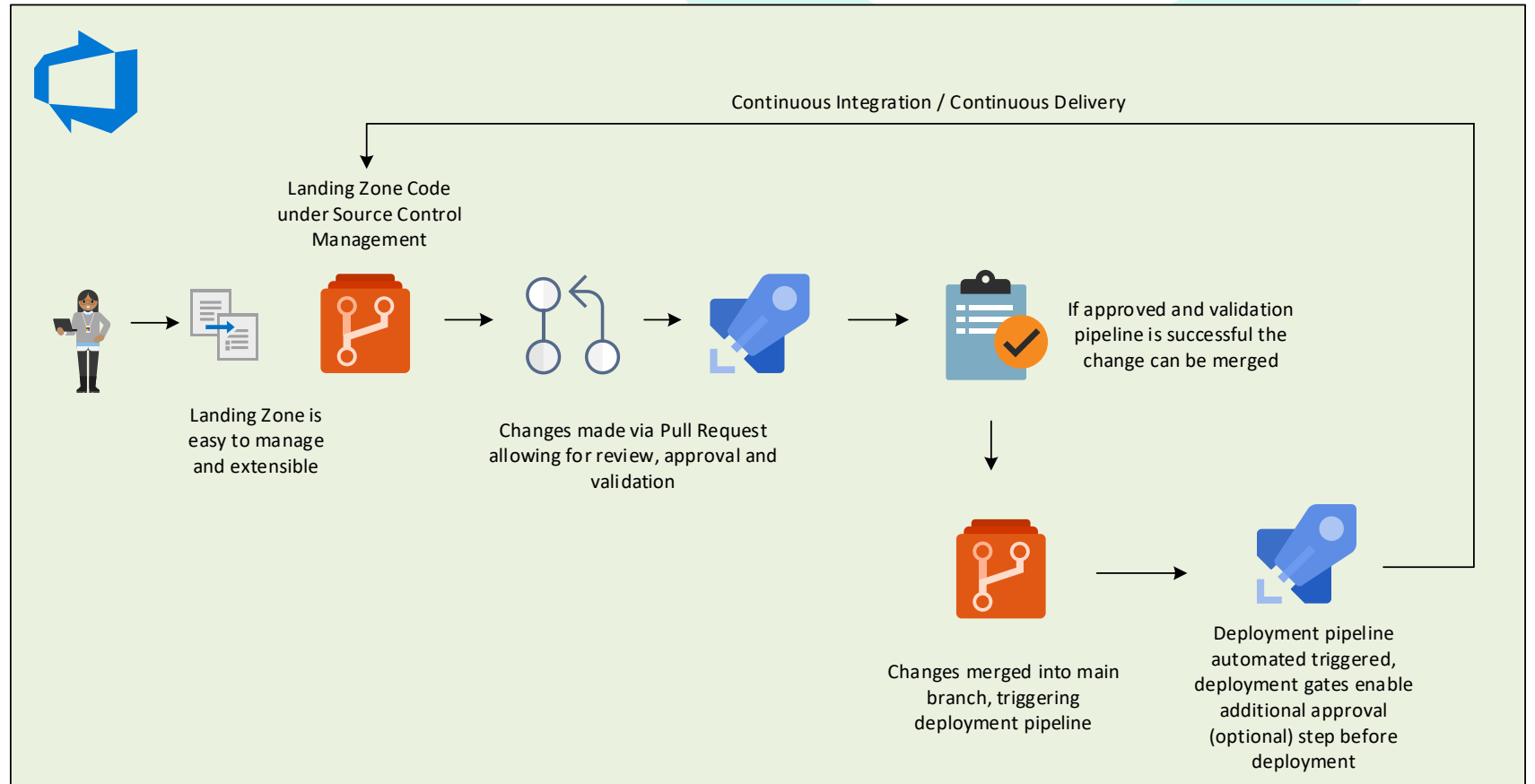


Operations

- Azure Monitor
- Centralised Logging
- App Insights

Automation and DevOps at its Core

- Our Landing Zone supports automated deployment with Continuous Integration and Continuous Deployment pipelines
- All code changes are under Source Control Management providing a clear audit trail of any changes to the code base
- Deployment governance is provided at multiple levels through branch policies, requiring approvals and through deployment gates
- Role based access control within the Azure DevOps project ensure access can be controlled
- Enhancements, changes or new resources can be deployed within minutes, while still be subject to your governance



What is a Landing Zone and how can it accelerate your ability to use Azure?

Secure by default

- We supply tried and tested Terraform Modules for the Azure services deployed within the Landing Zone
- Our modules are aligned with security best practice to ensure the Landing Zone deployment of the Azure service is secure by default at the point of deployment
- NCSC Cloud Security Principles alignment included within the solution
- Our modules are easy to update and can be tailored to meet any security standards unique to your organisation
- Our modules offer an easily adoptable pattern that you can build upon

main.tf

Contents

```
1 resource "azurerm_storage_account" "stroage_account" {
2   name                = var.sa_account_name
3   resource_group_name = var.resource_group_name
4
5   location            = var.location
6   account_tier        = var.account_tier
7   account_replication_type = var.sa_replication_type
8   min_tls_version     = "TLS1_2"
9   allow_blob_public_access = false
10
11   network_rules {
12     default_action = "Deny"
13   }
14
15   blob_properties {
16     delete_retention_policy {
17       days = 7
18     }
19   }
20
21   tags = {
22     environment = var.tags
23   }
24 }
```

Landing Zone Engagement



Landing Zone Review

Either as a standalone engagement or as a precursor to a Landing Zone design and deployment, we can complete reviews of existing Azure Landing Zones for compliance against **Cloud Adoption Framework** and **Well Architected Framework** best practices.

Output is a presentation detailing findings with recommendations for next steps and/or remediation.



Design

So that customer requirements are fully captured and understood we host workshop(s) to ensure alignment. We will bring our **Landing Zone accelerator IP** to these workshops and follow up with a design document that will be presented for review.

Once reviewed by the customer, we will update the design to provide **a finalized and agreed design document** to carry forward to deployment.



Deployment

Existing accelerator IP is used to minimise deployment time and is deployed using DevOps tooling and methodology. Specific customer requirements captured in the design are factored into the code for deployment, with all code being retained within customer organisation for future maintenance and management.

Output is a **best practice aligned Azure Landing Zone** to host and run services.



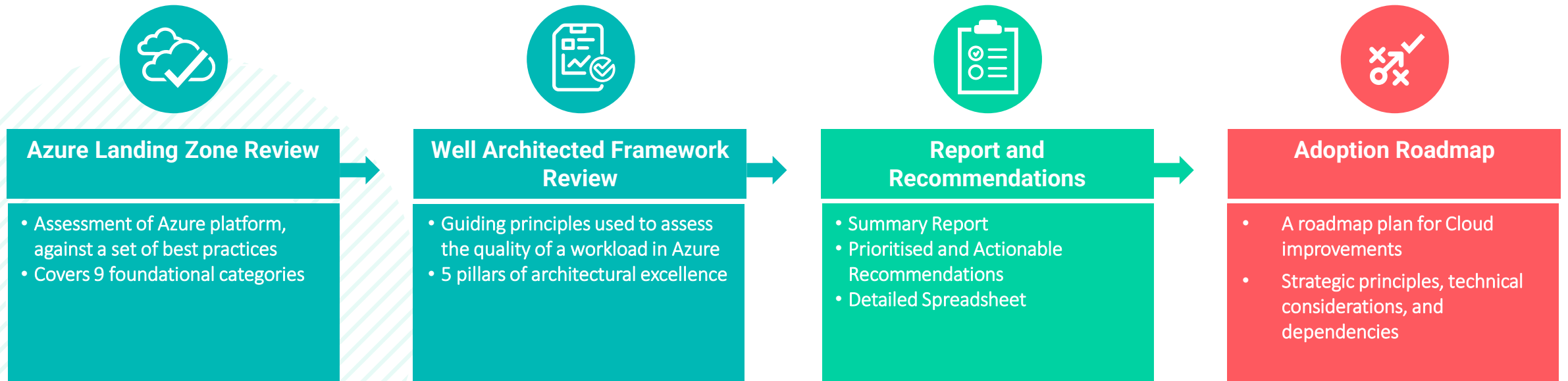
Azure Review

Understand how your Azure Platform aligns to Microsoft best practices.

Azure Review

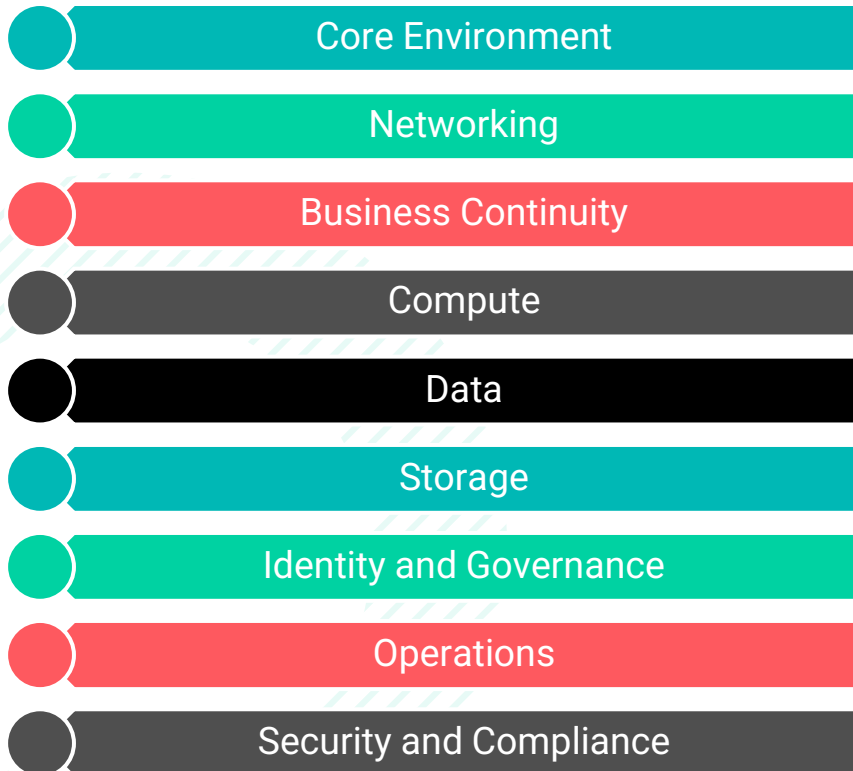
An Azure review ensures that customers implement and maintain a robust foundation for their Azure environment and applications. The Version 1 offering consists of the Azure Landing Zone Review and Well Architected Framework Review which combine Version 1 cloud experience, intellectual property and Microsoft best practices to deliver a report of actionable recommendations to ensure your Azure platform and workloads are aligned to industry standards.

Review approach & delivery



Azure Landing Zone Review

- The Azure Landing Zone Review evaluates **the Azure platform** and the environments current configurations, against a set of best practice recommendations shown in the diagram below.
- Full details of these recommendations will be found in the supporting Azure Landing Zone Review document.



Review Process	
Review Focus	Azure Platform – Landing Zone
Review Format	4x Workshops
Review Structure	118 best practice reviews across 9 categories
Key Stakeholders	Infrastructure team, Solution Architects

Well Architected Framework Review

- The Azure Well Architected Framework is a set of guiding principles that can be used to improve the quality of a **workload**.
- The framework consists of five pillars of architectural excellence and the full report will be found in the supporting Azure Well Architected Framework Review



Reliability

The ability of a system to recover from failures and continue to function.



Security

Protecting applications and data from threats.



Performance Efficiency

The ability of a system to adapt to changes in load.



Operational Excellence

Operations processes that keep a system running in production.



Cost Optimisation

Managing costs to maximise the value delivered.

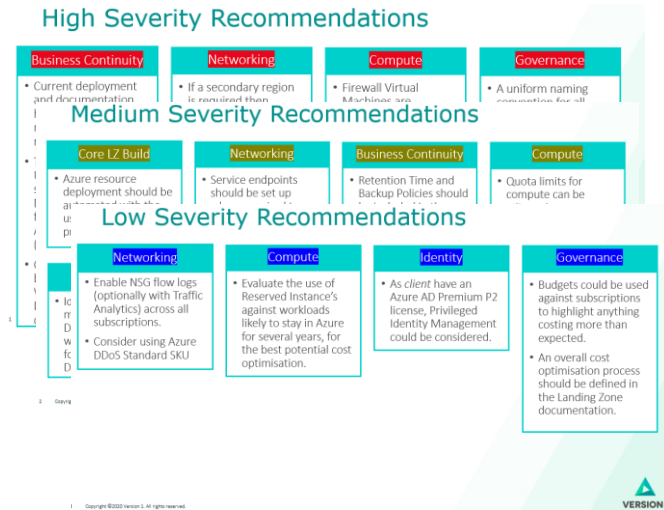
Review Process

Review Focus	Workload
Review Format	3x Workshops
Review Structure	700+ questions across 5 pillars
Key Stakeholders	Cloud Platform team, Solution Architects

Deliverables

Summary report

Findings and recommendations categorised by severity

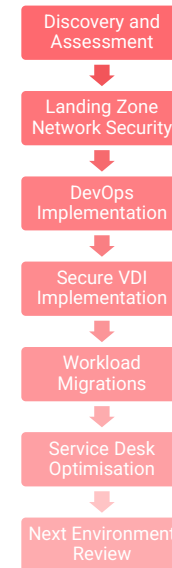


Detailed Spreadsheet

120+ assessed Azure best practices across the 5 pillars

Roadmap

Actionable plan based on severity and timelines



High severity recommendations are essential considerations, for the Azure infrastructure to align with the Cloud Adoption Framework.

Medium Severity recommendations are considerations that would strengthen the overall build for future deployment scenarios.

Low Severity recommendations are non-critical and extra items that can be considered to further strengthen the deployment.