Azure Landing Zone

Fully automated and best practice Azure Landing Zone, aligned to Microsoft Cloud Adoption Framework, deployed in minutes, not months. We do the heavy lifting so that you can focus on innovating,

Value Creation and Faster Innovation

Develop new solutions or move to Azure faster. Focus on Business Challenges and Opportunities instead of Foundation code and maintenance.

Reduced Costs and Free-up Staff

Free-up staff, remove need for specialized skills, automate, obtain visibility and control on spend

Risk Reduction, Security, and Compliance

Enforce Security and Compliance controls, Track risk posture, ensure things are done right and reduce reporting overhead

Operational Excellence and Scalability

Promote scalability, automate operations, keep up to date, prevent incidents before they happen, reduce human errors and delays

FEATURES

Automation

- ✓ Infrastructure as a Code, fully automated end-to-end deployment and configuration of the Landing Zone
- ✓ Subscription vending machine per application and per environment providing higher level of decentralisation, fine grained access control and minimising blast radius

Networking

- ✓ Network setup for multi geographies and multi regions
- ✓ Hub-Spoke architecture region bound
- ✓ VNET setup for Hub and Spokes Subscriptions
- ✓ VNET setup as the HUB for a Virtual WAN
- ✓ Central egress firewall based on Azure Firewall, supporting multi geographies and multi regions
- ✓ Standard 3 tier subnets with Network Security Groups (NSGs) to enforce security model. Can be delegated to PaaS services
- ✓ Azure PaaS dedicated subnets (App Gateway, DBaaS, etc) with NSGs to match the 3 tier security model
- ✓ Centralised egress network architecture

- ✓ De-centralised ingress network architecture
- ✓ Route Tables with configured routes to match 3 tier security model
- ✓ Virtual Network Gateway for Site-to-Site VPN setup
- ✓ Express Route circuit setup on Azure side
- ✓ Site-to-Site VPN connection setup on Azure side
- ✓ Public and Private custom DNS zones setup
- ✓ Private Link DNS zones setup
- ✓ DNS Private Resolver setup
- ✓ DNS configured to work with the services in the Hub
- ✓ DNS conditional forwarding setup between Azure Domain Services Domain Controllers and Azure Firewall in the Hub

Operational Excellence

- ✓ Azure Monitor setup for provisioned services
- ✓ Log Analytics workspace setup
- ✓ Automation Account setup
- ✓ Patch Management setup
- ✓ Inventory Tracking setup
- ✓ Azure Backup setup
- ✓ Azure Site Recovery DR solution setup
- ✓ Remote Access - Azure Bastion service – setup

- ✓ Recovery Vault setup in each subscription with default policies for VMs and Files services
- ✓ Networks logs for all VNETs
- ✓ Collection of all Activity Logs
- ✓ Storage account setup for operational purposes (Boot Diagnostic, Cloud Shell, etc.)

Reliability

- ✓ Standardised and decentralised approach
- ✓ Multi geographies
- ✓ Multi regions (inside geographies)
- ✓ Highly available network architecture implemented

Security

- ✓ Azure AD tenant setup for Azure use
- ✓ Role Based Access Control based on Azure AD groups for all provisioned services
- ✓ Microsoft Defender setup for Cloud in all subscriptions
- ✓ Central egress firewall based on Azure Firewall, supporting multi geographies and multi regions
- ✓ Default Firewall policies setup
- ✓ Multi-tier subnet security model
- ✓ Azure Key Vault set-up for Secrets Management and Encryption Key Management

- ✓ Pre-configured encryption keys for common services
- ✓ Azure AD Domain Services setup
- ✓ Management VM setup for Azure AD Domain Services
- ✓ Enablement of Microsoft Sentinel
- ✓ Dedicate Security Log analytics workspace setup

Governance & Compliance

- ✓ Azure Management Groups (MGs) setup
- ✓ Creation of Azure Subscriptions and assignment to MGs
- ✓ Azure Policies Setup with predefined policies
- ✓ Azure resources details provided in IaC format to be used in Policy as Code
- ✓ Azure Tags across all resources
- ✓ Azure resources naming convention
- ✓ Activity Logs to Log Analytics Workspace

Cost Optimisation

- ✓ Azure Budgets setup
- ✓ Improved visibility of consumptions costs against application subscriptions and tags
- ✓ Early visibility and alerting for consumption thresholds

WHY VOLO

Setting up and maintaining a secure and controlled environment in public Cloud can take a significant amount of time and it requires a deep understanding of Azure services. It involves many design choices and the configuration of multiple subscriptions, services, security controls , policies and governance.

A Volo Azure Landing Zone correctly sets-up the cloud environments and provides the appropriate controls to make applications and environments **secure, easy to operate, scalable** and **cost effective.**

- ✓ **Deployed in minutes,** not months
- ✓ **Evergreen,** remain up to date and effortlessly take advantage of Azure services as they are released. No need for a team to maintain and keep it up to date
- ✓ **Fully Automated,** no need for expensive consulting and specialised resources
- ✓ Aligned to Microsoft **Cloud Adoption Framework,** industry **best practices** and leveraging several years of experience
- ✓ **Infrastructure as Code** and **API** driven, available in the Developers tools of choice as **Terraform Provider**
- ✓ **Good from day 1,** no need for technical debt or rework