

Azure LandingZone



1. SK C&C

- Top cloud services from managed cloud expert group
- Differentiated technology to drive the customer cloud journey

For the first time in Korea, it has obtained both the CSP Top 2 MS Azure and AWS Managed Service Provider (MSP) certification, providing the best service to the rapidly changing cloud environment as MS Azure Expert MSP and an AWS Migration Competency partner.

From cloud design and deployment to migration, operations, security controls, and optimization, we are committed to delivering the best cloud technology services under the supervision of a group of cloud experts 24 hours a day, 365 days a year.

From cloud transformation to efficient cloud operating environments, reliable operation of all IT resources, and cloud-based application implementation technology, you have the integrated technology and know-how your business needs.

Building a reliable cloud with years of IT business know-how and consulting expertise optimized for your business - provides transition services. We build and manage your container and Kubernetes with Kubernetes and Modernization technologies, which are key technologies for reducing costs and achieving work efficiency through Cloud, and also provide systematic consulting to help you become competent.

We've proven our technical superiority by earning technical certification named Advanced Specialization in AKS and Top Partner award in area of Azure Digital & App Innovation

It also provides systematic consulting so that customers can have their own capabilities. You can effectively improve your customers' work efficiency with cloud operational capabilities validated as a global Cloud Solution Provider (CSP) partner.

Microsoft Partner
Azure Expert MSP



We provide optimized and efficient solution for Digital Transformation

2. Azure LandingZone (Why LandingZone?)

Azure LandingZone

- Definition

- Azure LandingZone means that enables the organization to use operations, security, and development in a cloud environment.
- Azure LandingZone enables application migration and green field development in enterprise-scale environments, takes into account all the platform resources needed to support your application portfolio, and allows you to use IaaS or PaaS independently.

- Why Azure LandingZone

- Enterprise-class (user or system 500+) environments focus on governance, security, and operations management, requiring Azure Landing Zone when accessing subscriptions and services.
- Enables shared services to simplify the application migration process.
- If you need to initially implement an Azure Landing Zone area that includes integrated governance, security, and tasks based on business requirements, you can use Microsoft Azure Portal or infrastructure code to set up and configure your environment.

- Why SK C&C

- Provide the best technology service as certified cloud partner(Azure Expert MSP, Advanced Specialization, Top Partner Award in Azure Digital & App.innovation)
- Have a lot of successful customer stories with experience in a variety of industries (Finance, Telecom, Manufacture, Commerce and etc.)
- Execute Optimized deployment and integration management for on-premises operations and cloud deployments.
- Delivery one body Project for operation and construction of infrastructure as a single operator.



※ Green Field development refers to a variety of development environments without constraints as part of a new start.

2. Azure LandingZone (Why LandingZone?)

- Why SK C&C for Azure LandingZone - We provide Azure Governance services tailored to your cloud environment.

1) Governance

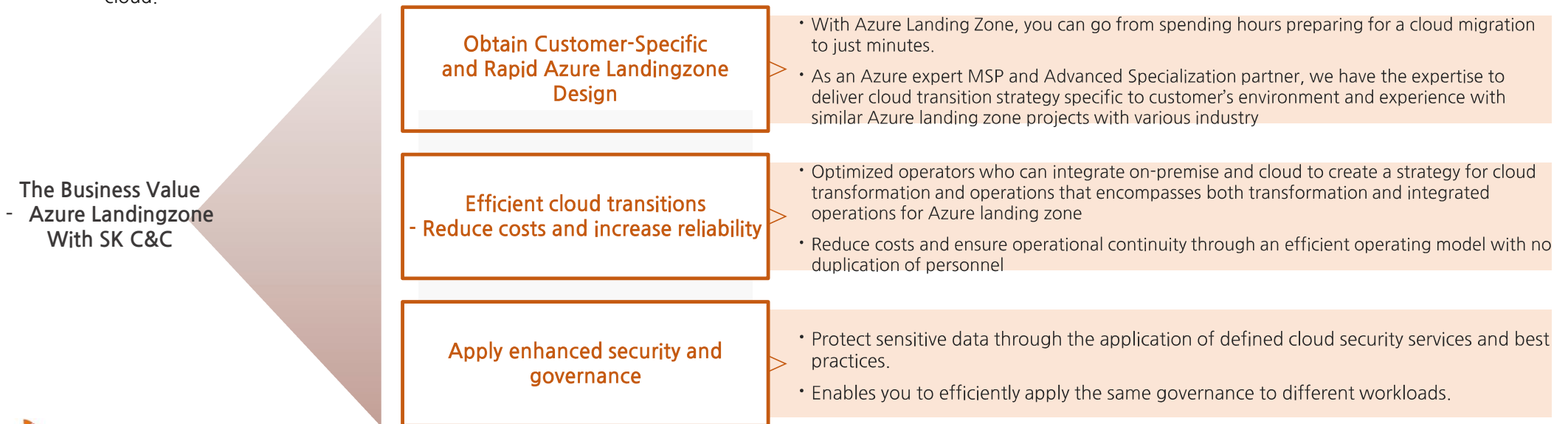
- Your organization's accounts, permissions, and more are the most important factors in cloud operations.
- Establish cloud governance by defining Azure AD, Azure RBAC, and more.

2) Automated infrastructure

- Azure Landing Zones provide a modular approach to building environments based on common design areas.
- It leverages Azure Blueprint, Terraform to automate.

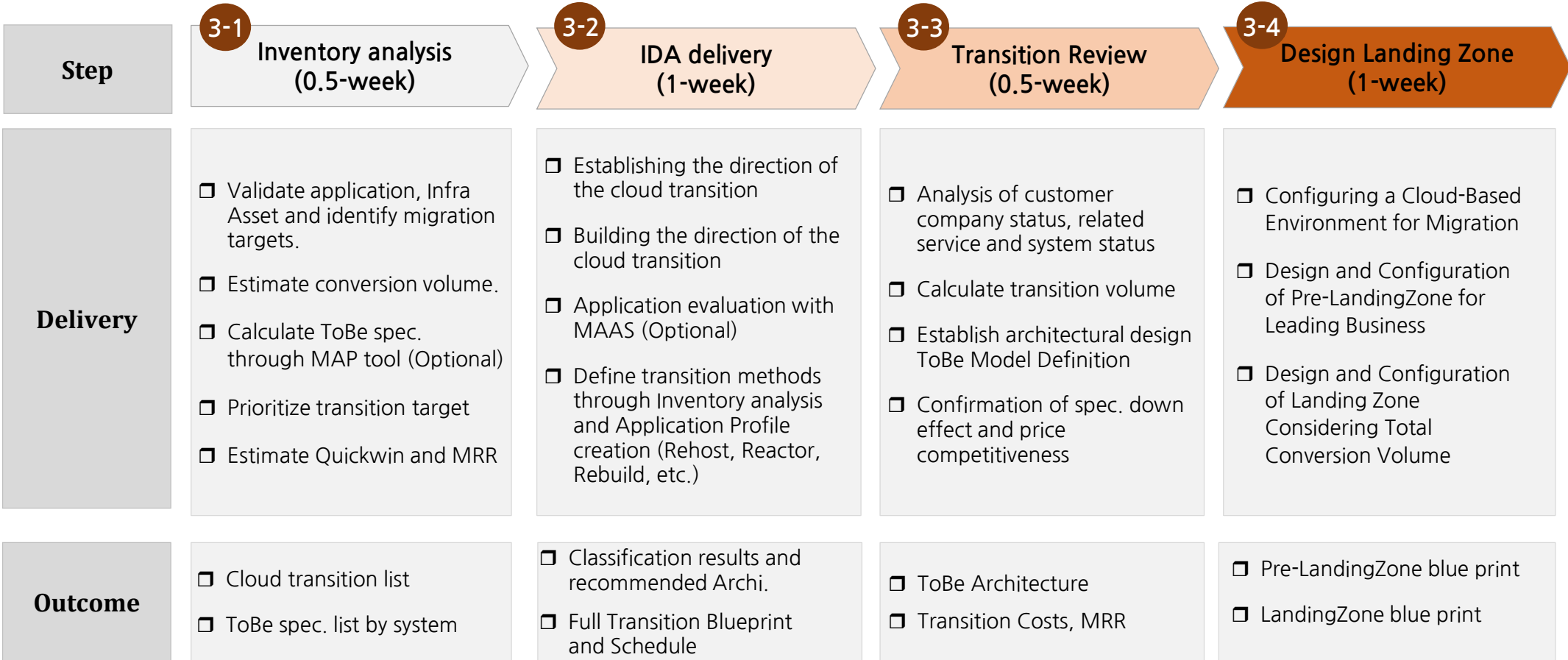
3) Enterprise-optimized configurations

- Configure your Azure Landing Zone based on an optimized architecture that takes into account the characteristics of your enterprise and the characteristics of the cloud.



3. Process for Designing Landing zone - 3 Weeks Design

- Identify the area that can be converted to Cloud from the existing customer asset information and calculate cloud MRR by each conversion target
- After delivering IDA and reviewing transition , we design a landing zone considering the customer's environment and set up Migration.



MRR (Monthly Recurring Revenue) IDA (In-Depth Assessment)

MAP (MS Assessment & Planing Toolkit)
MaaS (MS Azure Assessment Service)

3-1. Inventory analysis

- Secure a list of cloud conversion targets based on the current state of IT infrastructure and create a list of targets considering the possibility of actual conversion.
- Discussion of conversion targets with the customer's IT organization and consultation on conversion steps after establishing the strategic direction.

Inventory analysis

- Analysis of As-Is status
- Get a list of Infra status
- Obtaining list targets and proceeding with mapping
- Run MAP Tool
- MAP Tool Analysis
 - Configuration Status Analysis
 - Resource Status Analysis
 - ToBe Recommendation Sizing Check
- Request for supplementation of missing data and further analysis

Feasibility Review

- Maintain on premise when restrictions (on industrial technology protection)for preventing cloud transitions
- Calculate the volume to be converted to Cloud in a negative way
- Cloud Transformation Review
- Reflect on new system Cloud orientation deployment
- Exclude unused/disposed servers

Establishing strategic

- Make decision about Public Cloud, Private Cloud, Hybrid Cloud
- Review strategic direction and prioritize
- Discussion detailed targets for transition project
- Discussion manpower /R&R project timeline

IDA Preparation

- Finalizing IDA progression
- Compile MAP Tool results
- Assign interviewer (server/security/network/application)
- Authorization to check configuration information (VPN account, system/virtualization management/monitoring access)
- Request for cooperation in providing network/system configurations in advance
- Cooperation on security equipment (OS/DB access control) situation

3-2. IDA Delivery

- Based on the MS Cloud Modernization methodology, a step-by-step conversion roadmap and high-level architecture are established for efficient implementation of the actual conversion work, and a conversion model is selected by collecting application profile information and conducting evaluation.

App. Collecting profile

- App. Interview
 - Based on the preliminary inventory, we conduct application evaluation through interviews and questionnaires.
- Detailed architectural analysis of application components
- Select potential workstreams (IaaS/PaaS/SaaS) for servers and workloads
- Estimate cloud resource requirements for each business system

App. Evaluating profile

- App. Create scores for items categorized into 5 areas - Service Load/Architecture/Conversion Risk/Operations/Security & Controls
- Calculate the Transition Ease Index and Transition Benefit Index and finalize them into a composite index

구분	항목	전환 용이성	전환 효익	구분	항목	전환 용이성	전환 효익
시스템 부하	Elasticity		●	운영/관리성	Organizational	●	
	Scalability		●		Business Criticality	●	
	Resource Intersiveness		●		Technical		
	Latency		●		Resource	●	
	Throughput		●		Contractual	●	
	UI Complexity	●			Business Continuity		●
아키텍처	Access points		●	인사/규제성	Tools/Integration		●
	AP Complexity	●			Deployment		●
	Size		●		Jurisdiction		●
	Application Life Expectancy		●		Regulation		●
	Structured magnitude	●			Privacy		●
	Unstructured Requirements	●			Encryption		●
	Data Complexity	●					
	Hardware Life Expectancy		●				

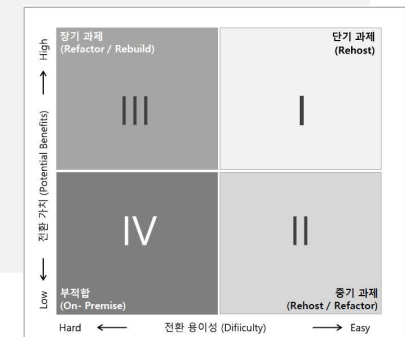
Selecting Conversion Model

- Score calculated from App. profile is used in the calculation for conversion model selection (MS internal algorithm) Conversion model selection (3R, etc.)

- Rehost**
 - 기존 Application 의 클라우드 호스팅
 - 아키텍처 유지, PICO → Azure
- Refactor**
 - 기존 Application 의 설정 및 구조 수정하여 클라우드로 전환
 - PaaS 연동을 고려한, 소스코드 또는 구성 변경
- Rebuild**
 - Azure 에 기존 Application 재 개발하여 전환
 - 클라우드 기반 기술을 활용한 업무 기능 및 기반 기술의 고도화 수행 (오픈소스, 컨테이너 등 활용)
- Replace**
 - Legacy 업무의 SaaS 전환, 기존 Application 폐기

Prioritizing conversions

- Create a matrix with ease of conversion and value of conversion as two matrix
- Identify long-term, medium-term, and short-term challenges and non-conformances
- Negotiate and coordinate the final decision with the customer



3-3. Transition Review

- Review transition model and establish ToBe architecture through analysis tools

Run the analysis tool

- ❑ Modernize System Information - Modernize Details/Version, etc.
- ❑ Reporting on service status and performance/stability advice
- ❑ Estimated sizing tool for transition
- ❑ Readiness Check- tool to check your readiness for migration

Reviewing Transition Model

- ❑ Model review and customer consultation for moving to the cloud
 1. Lift and Shift to Cloud
 2. Lift and Migrate to Cloud
 3. Lift and Shift/Migrate to Cloud
 4. Transformation to Cloud : Consolidation or Re-Implementation

Architectural design session

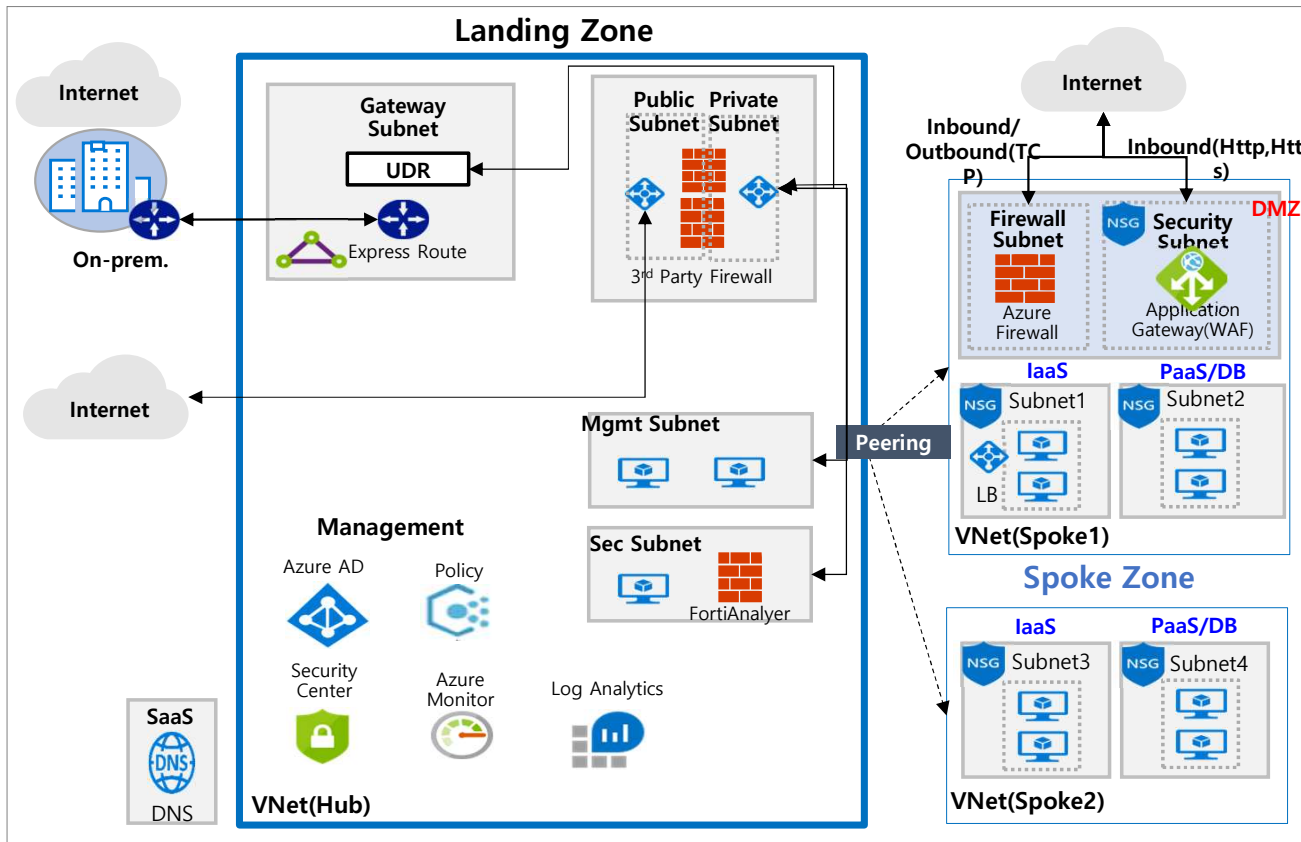
- ❑ Establish architectural design ToBe Model Definition
- ❑ Review tight/right sizing, system landscape validation through Technical Migration Assessment
- ❑ Negotiate the details about HA/DR setup, Networking and etc.

Build a transition plan

- ❑ Discuss and decide on a conversion model
- ❑ Identify size savings and special discounts
- ❑ Identify cost savings through operational optimization in the cloud environment
- ❑ Establish ToBe architecture considering high availability and DR
- ❑ Calculate switching costs and MRR
- ❑ Addition of LandingZone

3-4. Customer Use Case/Design by Industry - Manufacturing

- Maintain consistent cloud infrastructure and security configuration levels by establishing a standard architecture for cloud services



Implementation highlights

Subscription schemes

- Create separate subscriptions for each subsidiary to separate costs
- Use a common subscription for common services, cost allocation, etc.

Governance

- Maintain governance with unified management of accounts and permissions
- Establish standards for key resources to ensure resource consistency and enhance security and compliance

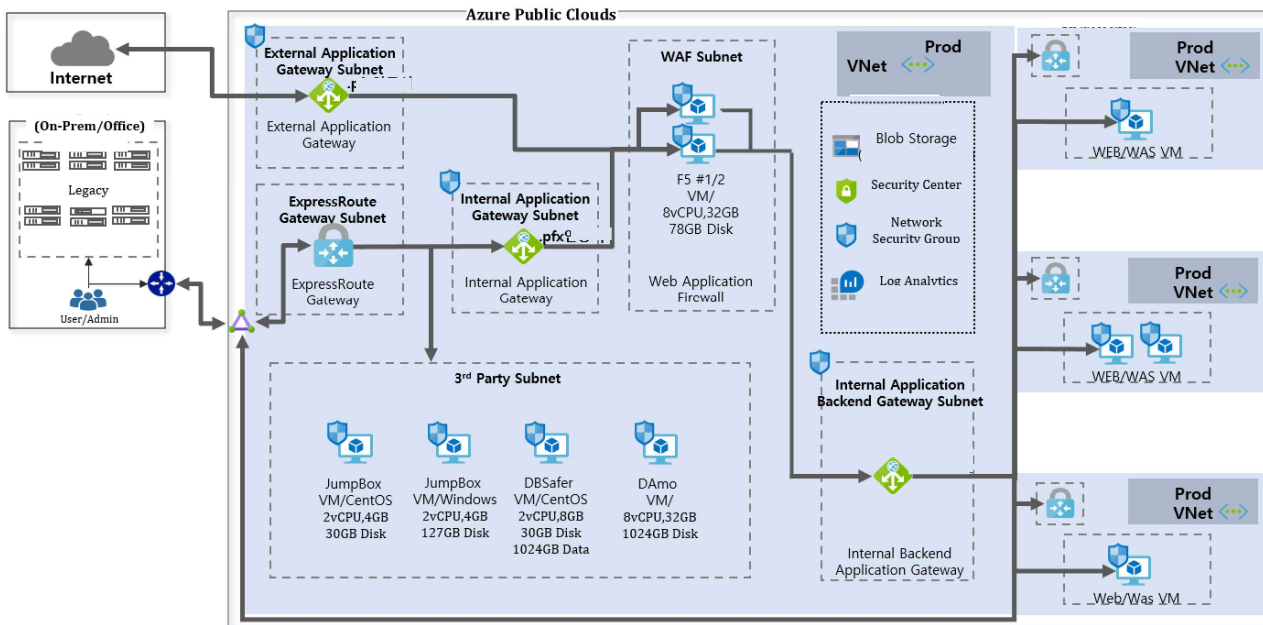
Security

- Unified management of accounts and permissions through Active Directory and resource access management based on RBAC within Azure
- Meet customer security standard requirements using Azure native services and 3rd parties (encryption, DB access control)

3-4. Customer Use Case/Design by Industry - Commerce 1

- Hub & Spoke structure design considering centralizing network ingress routes and expanding services through Landing Zones

Landing Zone Architecture



Implementation highlights

Main Service

- On-prem integration: Express Route Gateway, Express Route Circuit
- External Web-service: Application Gateway, F5 WAF

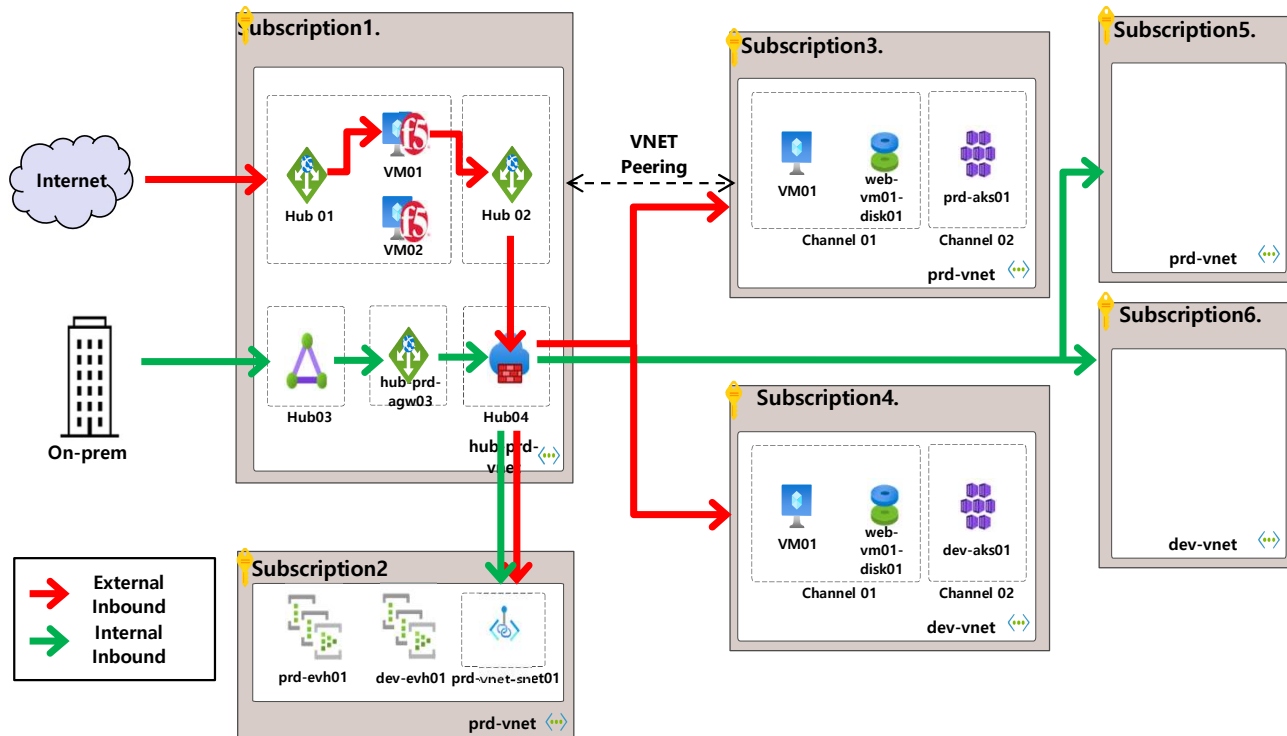
- Security solution: DB Safe (DB access control), Damo (DB encryption), HiTAM (access control solution)
- Logging monitoring : Log Analytics, Azure monitor

Adoption effects

- Configuring Landing Zones in a Hub & Spoke Structure
- Efficiency through centralized network management
- Increase service scalability
- Increase security and access control by unifying network ingress and egress
- Reduce operational costs by consolidating common-use resources

3-4. Customer Use Case/Design by Industry - Commerce 2

- Configure cloud infrastructure and security by centralizing network ingress routes through Landing Zones and establishing a standard architecture for Azure cloud environments



Implementation highlights

Main Service

- On-prem integration: Express Route Gateway, Express Route Circuit
- External Web-service : Application Gateway, F5 WAF, Fortigate Firewall
- Security solution : DB Safe (DB access control), HiTAM (access control solution)

Develop

- Establish a standard architecture for your next-generation car rental Azure cloud environment
- Unified management of accounts and permissions with AAD
- Azure RBAC-based resource access management
- Configure Azure policies based on security requirements

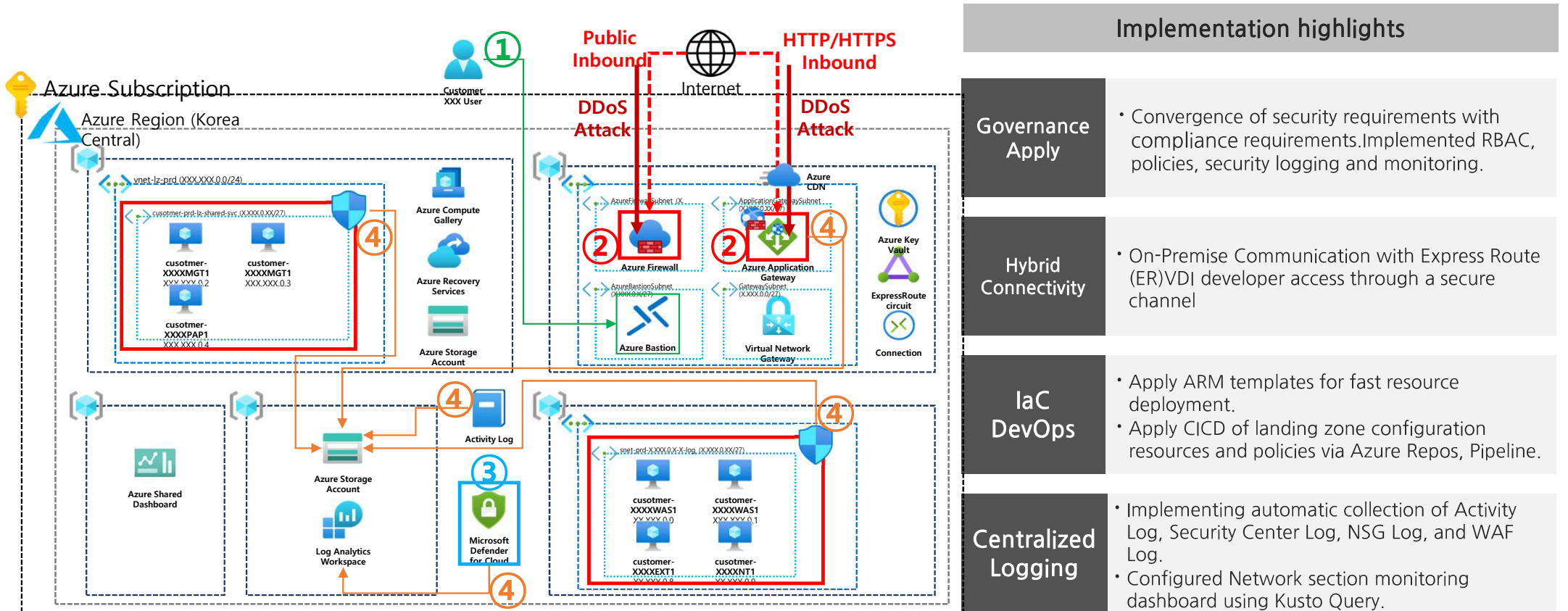
Adoption effects

Configuring Landing Zones in a Hub & Spoke Structure

- Centralize network management for efficiency
- Increase security and access control by unifying network ingress and egress
- Reduce operational costs by consolidating common-use resources
- Maintain governance through unified management of accounts and permissions
- Use 3rd party security equipment (F5, Fortigate) to meet SKR customer standard requirements

3-4. Customer Use Case/Design by Industry - Holding

- By utilizing SK C&C's Landing Zone Asset, we completed the construction of a landing zone that complies with the customer's governance/security in a short delivery period and configured and managed the landing zone infrastructure with a history management and reusable code base using IaC/DevOps.



End of Document