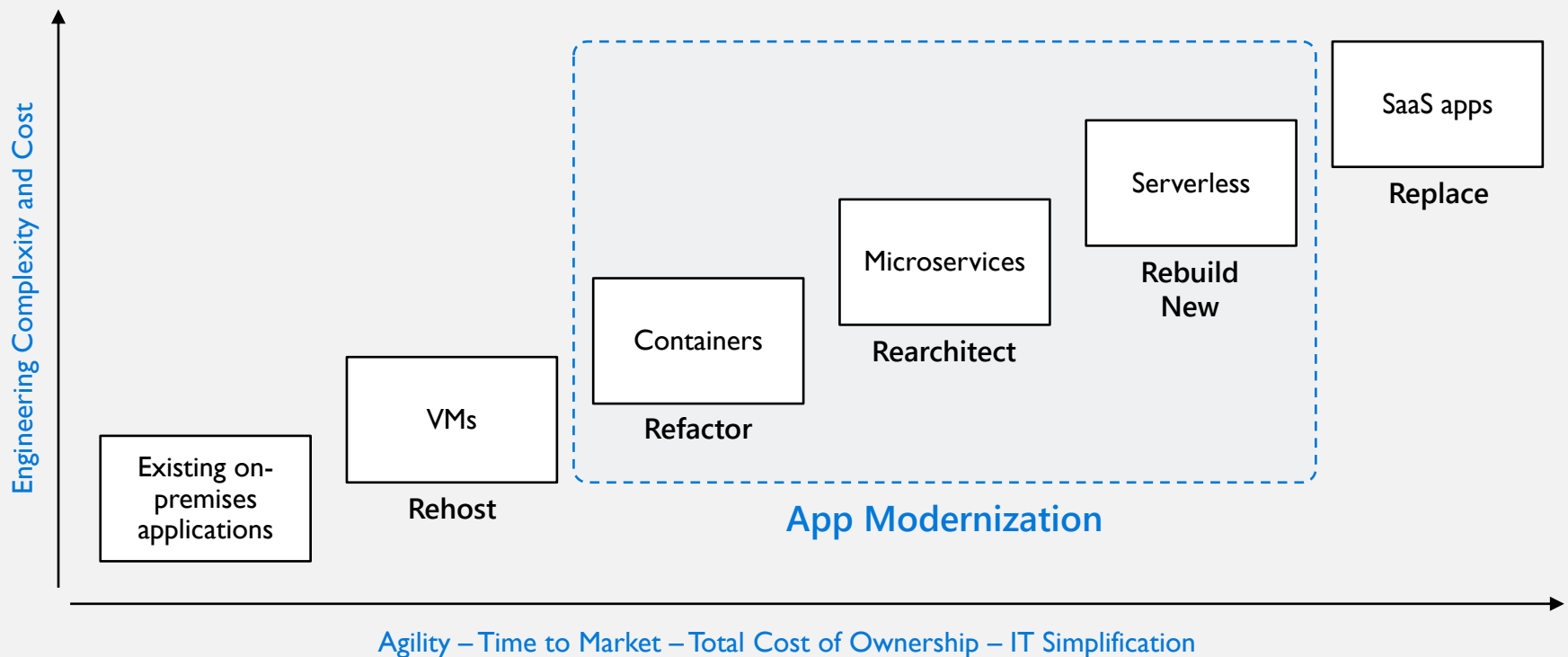


AULA I

ESTRATÉGIAS DE COMPUTAÇÃO
EM NUVEM

ESTRATÉGIAS DE COMPUTAÇÃO EM NUVEM



JORNADA PARA CLOUD

On-premises

Apps

Data &
Intelligence

Infrastructure

Migration & Modernization

Rehost

Refactor

Rearchitect

Cloud-Native

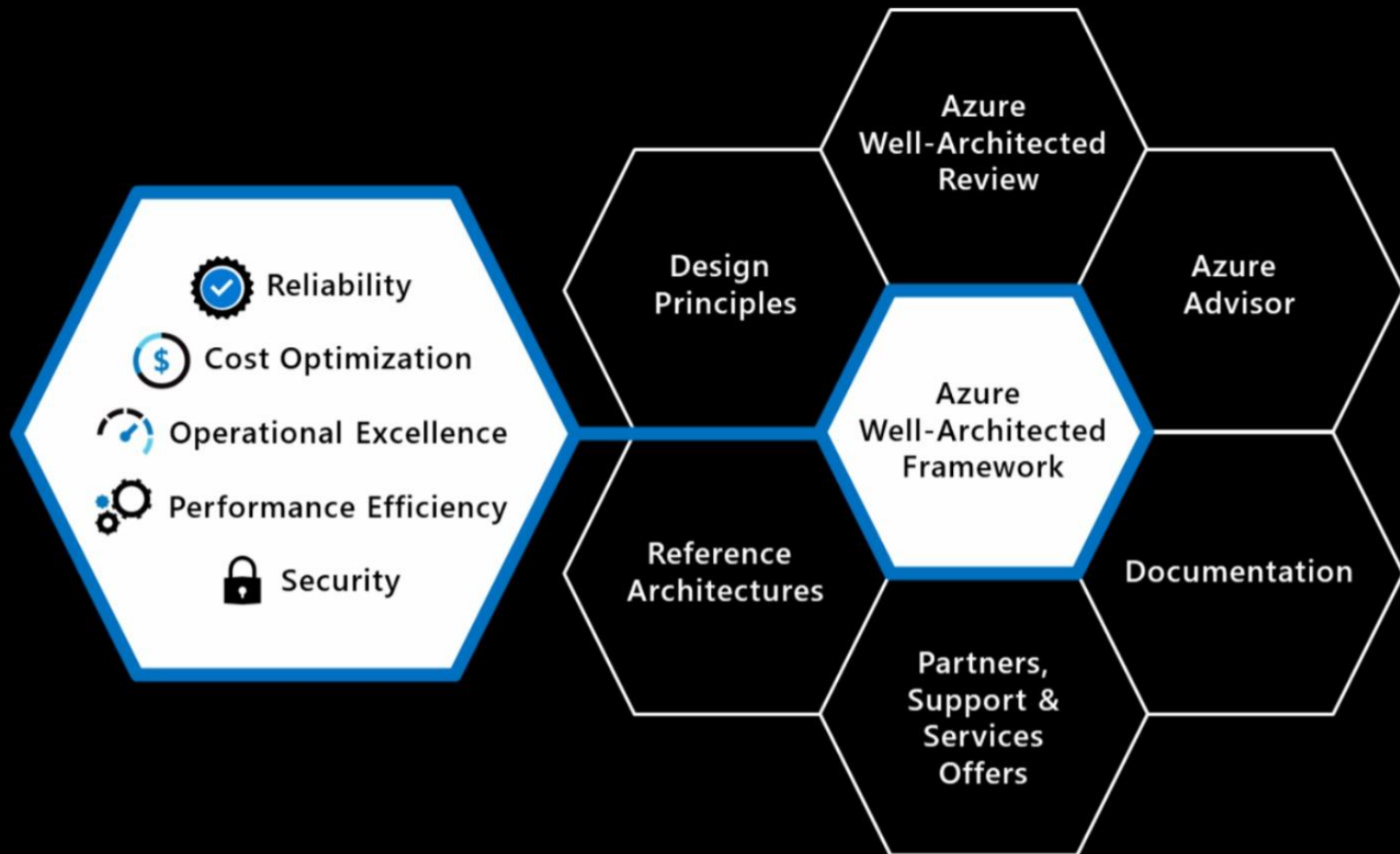
Rebuild/New

SaaS

Replace

DevOps

Deliver faster and more reliably





Operational Excellence

Run, manage and monitor production workload to deliver business value and continuous improve on supporting process and events



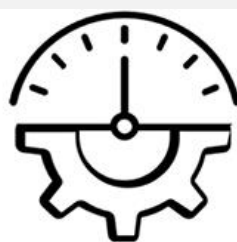
Security

Protecting information, systems, and assets along from outside world with risk assessment, unplanned failures, and mitigation strategies



Reliability

Auto recover workload from infrastructure, power or system failures with dynamic resource management to meet operational threshold.



Performance Efficiency

Use computing resources efficiently to support on demand changes for delivering workload with maximum performance to meet the SLA



Cost Optimization

Avoiding & eliminate un-needed cost or replace resources with cost-effective resources without impacting the best practices and business need

ARQUITETURA DE SOLUÇÕES: O QUE DEVEMOS CONSIDERAR?

Business Architecture

Core Subdomains

- Capabilities
- Value Streams
- Information
- Organization

Extended Subdomains

- Stakeholders
- Strategies
- Products
- Assets
- Initiatives

Others

- Requirements
- Processes
- Business Rules

Application /Integration

- Enterprise Application Integration Components
- Custom Application Development
- Services Definition
- Process Alignment
- Services/Event Architecture

Information \Data

- Data integration
- Data Architecture
- Master Data Mgt
- Metadata Mgt
- Data Delivery Architecture
- Dashboards & Analytics
- Business Intelligence
- Enterprise Reporting
- Data Modeling
- Data Quality
- Content Mgt

Technical/ Infrastructure

- Servers
- Networks
- Telecom
- Operating Systems
- Desktop
- Middleware
- Database Infrastructure
- Security
- Storage
- Other hardware

AULA 3

ARQUITETURA DE SOLUÇÕES NEGÓCIO

ARQUITETURA DE SOLUÇÕES DE NEGÓCIOS: O QUE DEVEMOS CONSIDERAR? POR ONDE COMEÇAR?

Business Architecture

Core Subdomains

- Capabilities
- Value Streams
- Information
- Organization

Extended Subdomains

- Stakeholders
- Strategies
- Products
- Assets
- Initiatives

Others

- Requirements
- Processes
- Business Rules

Propósito

Requisitos funcionais de alto nível - o que a solução precisa fazer?

CrITÉRIOS de Sucesso

O que a solução precisa fazer para atingir o objetivo.

Como isso é necessário, incluindo disponibilidade e requisitos não funcionais.

Stakeholders

Existem outros clientes (internos ou externos) envolvidos com um SLA também?

Prioridades

CUSTO – PRAZO - QUALIDADE

DOMAIN AREAS

Architecture

- Design
- Failure Point and Mode Analysis
- Dependencies

App/Infra Platform

- Service/SKU Configuration
- App State and Config.
- Compute Availability

Data Platform

- Service/SKU Configuration
- Consistency
- Replication and Redundancy

Networking and Connectivity

- Network Topology
- Network Component Availability
- Regional and DC Connectivity

Reliability and Recovery

- Recovery Strategy and Design
- Availability Targets
- Recovery Targets

Availability & Scalability

- App Availability
- Data Latency and Throughput
- Data Size/Growth
- Network Throughput and Latency

Monitoring and Measurement

- Health Modelling
- Service and Resource Monitoring
- Application Instrumentation and Monitoring
- Telemetry Pipelines
- Key Metrics and Thresholds
- Alerting and Dashboards

DevOps

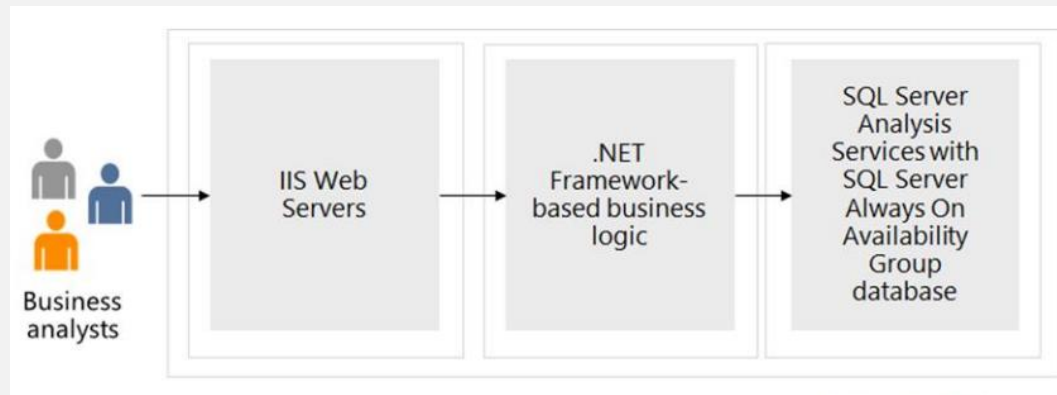
- Deployment and Automation
- Environment Builds
- Testing and Validation

Security

- Identity and Access
- Network Security
- Key Management

PROJETOS REAIS E PRÁTICOS

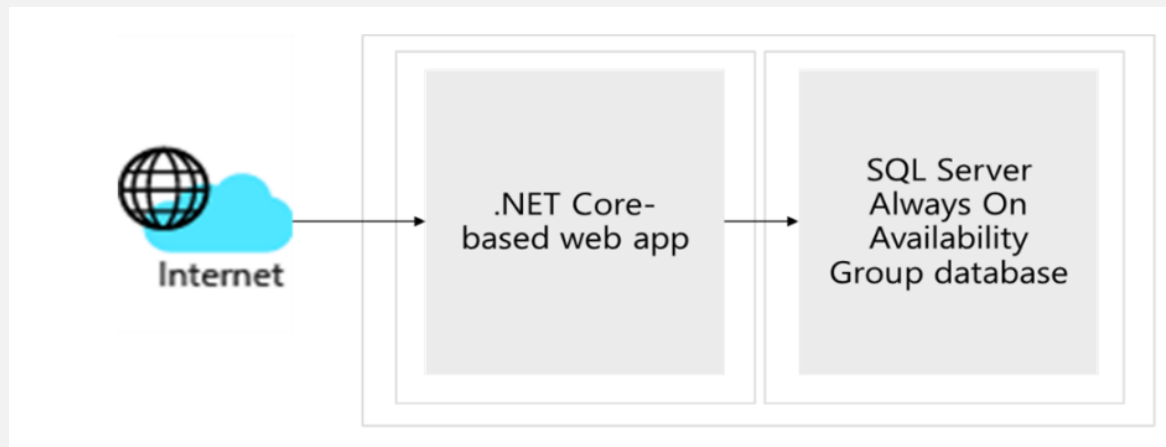
CENÁRIO 01 – CLIENTE LOJA ONLINE



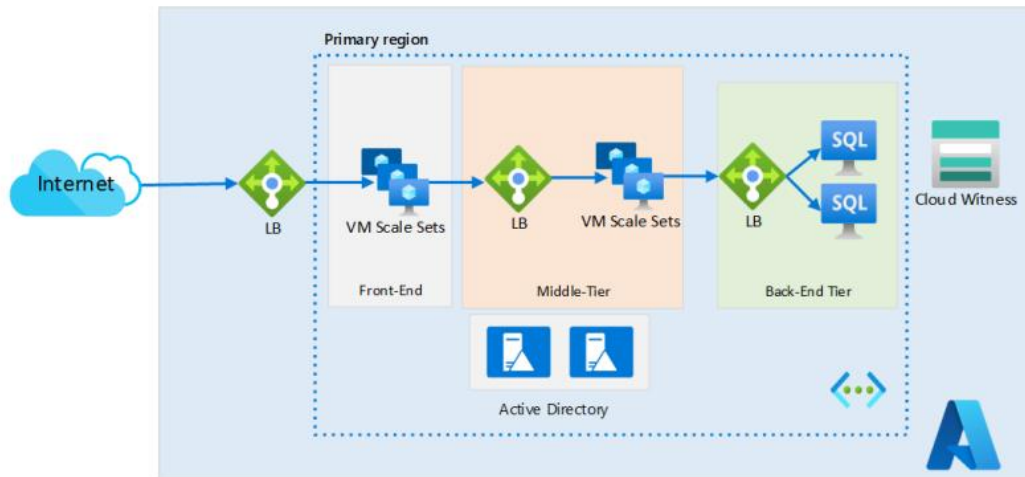
- Demanda pesada com lentidão
- Os servidores atingem seu limite de desempenho durante o dia
- Os servidores ficam ociosos durante o horário de folga
- Chamada de API Rest da camada de front-end
- Solicitações de demanda de um dia para o outro estão com lentidão.

PROJETOS REAIS E PRÁTICOS

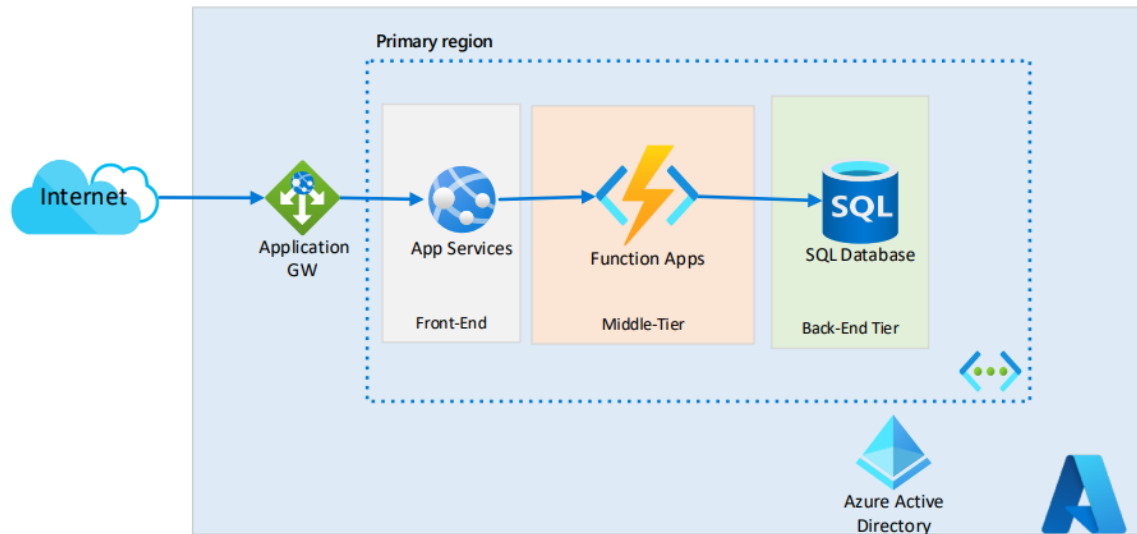
CENÁRIO 02 – CLIENTE ESCOLA



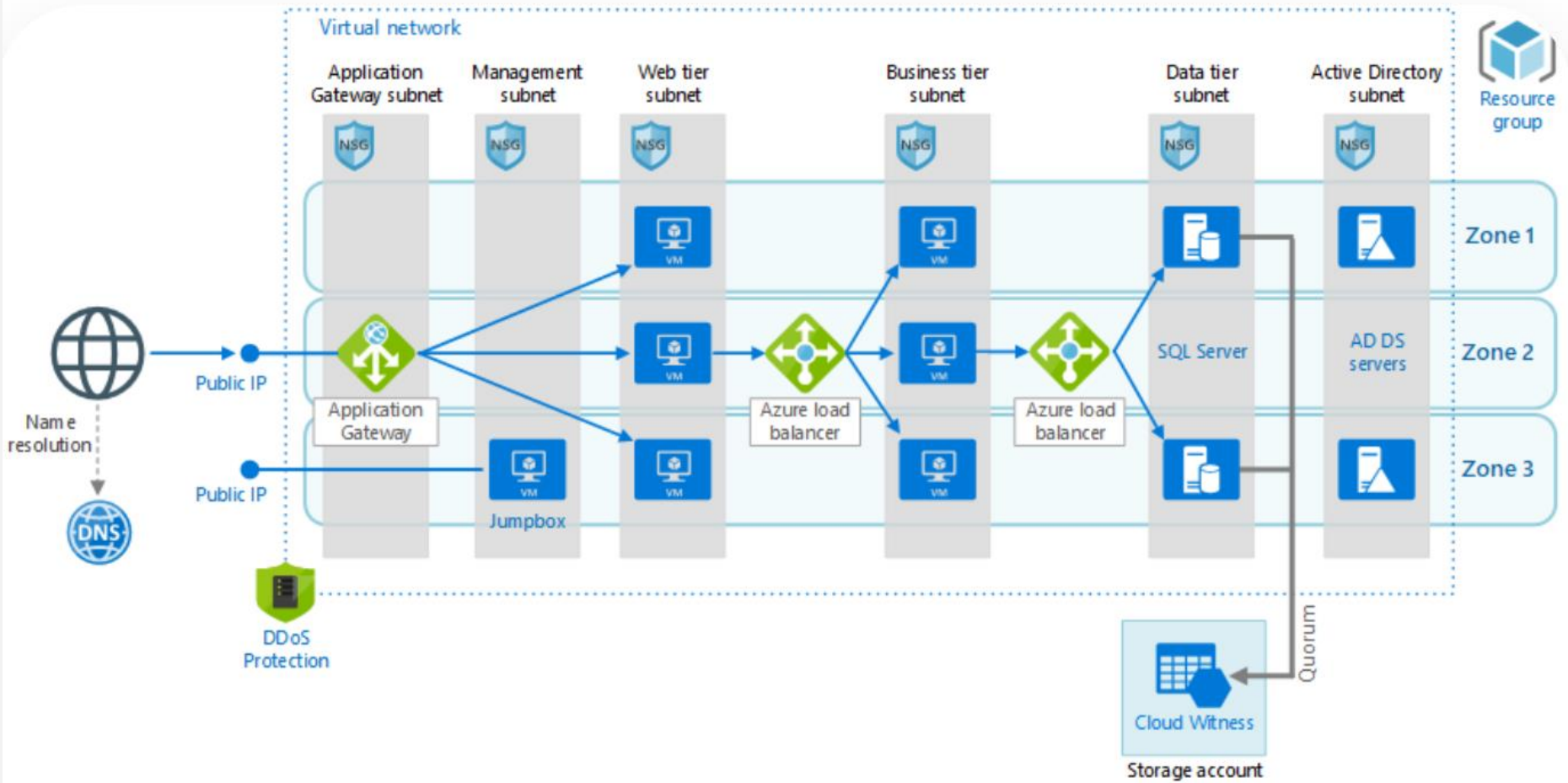
- Demanda pesada com lentidão
- Os servidores atingem seu limite de desempenho durante o dia
- Os servidores ficam ociosos durante o horário de folga

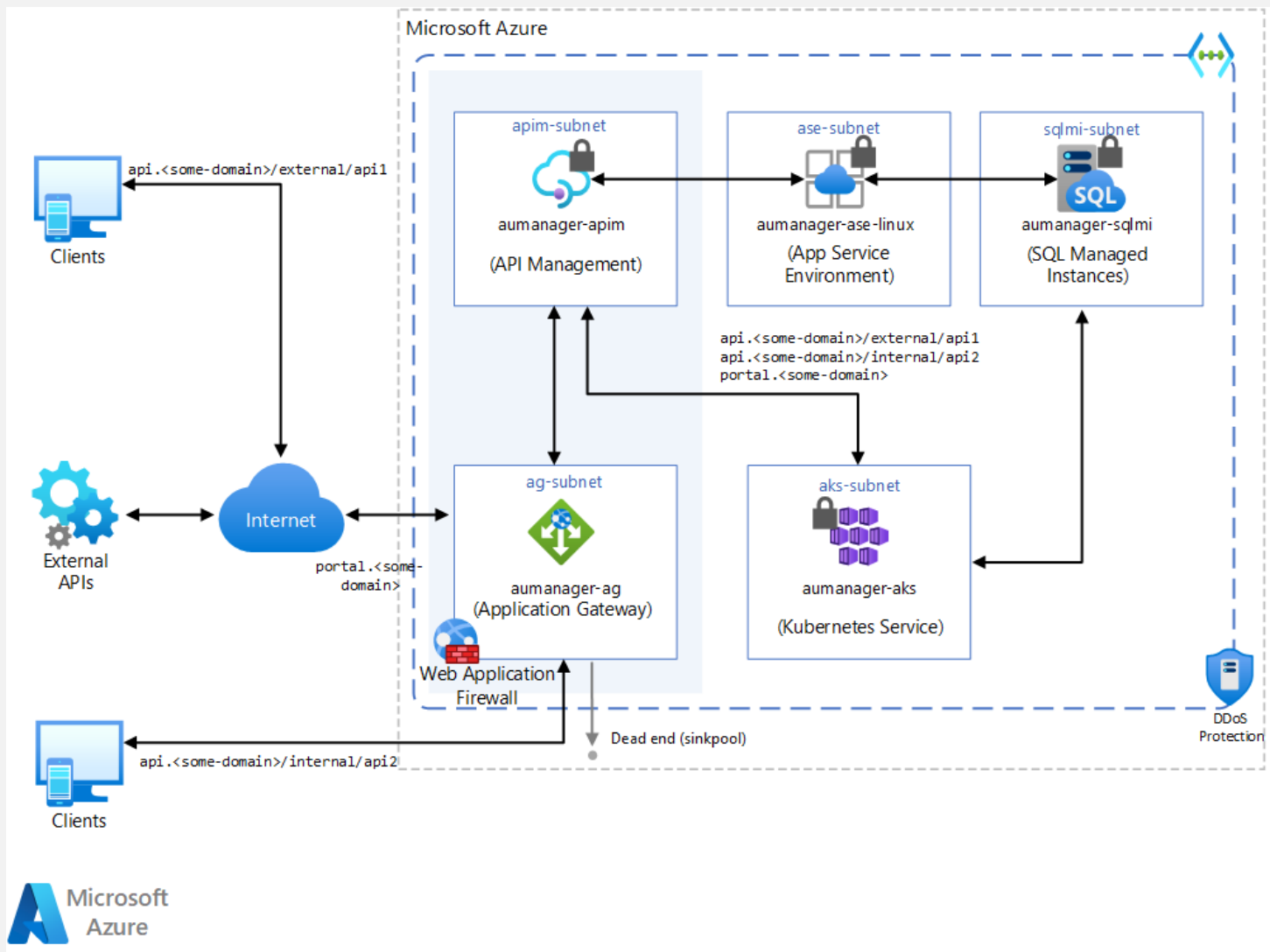


App Service + Functions

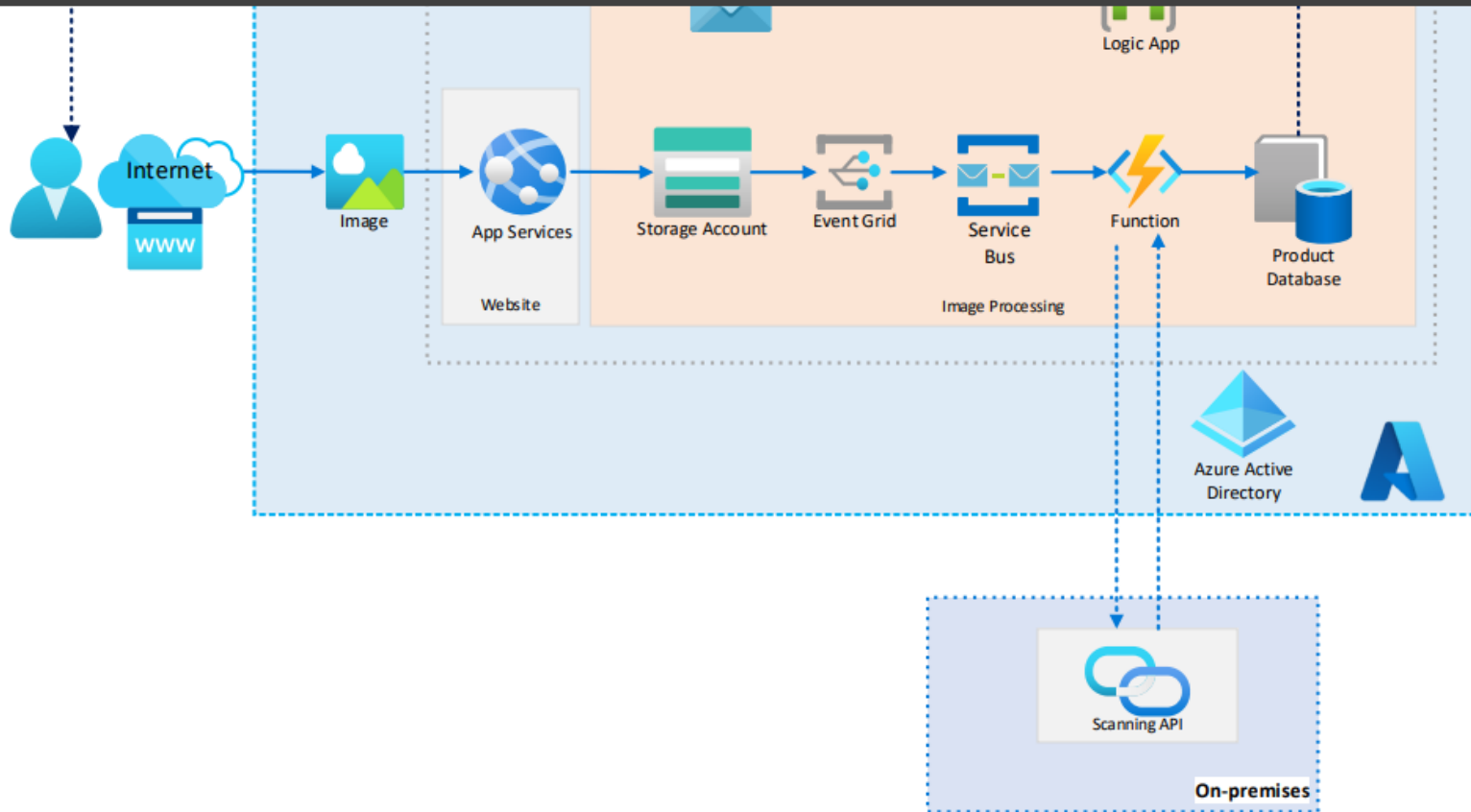


MODELOS

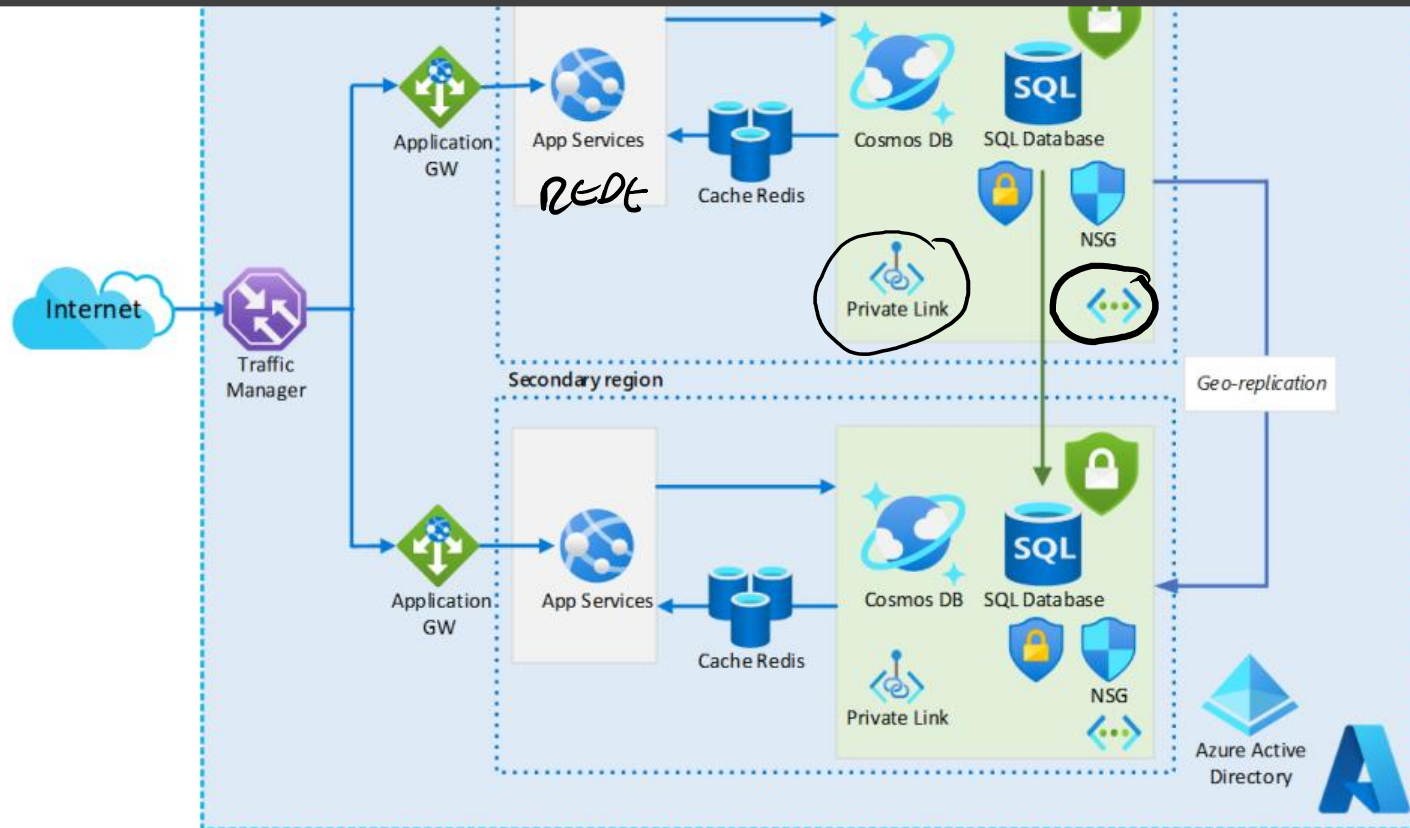




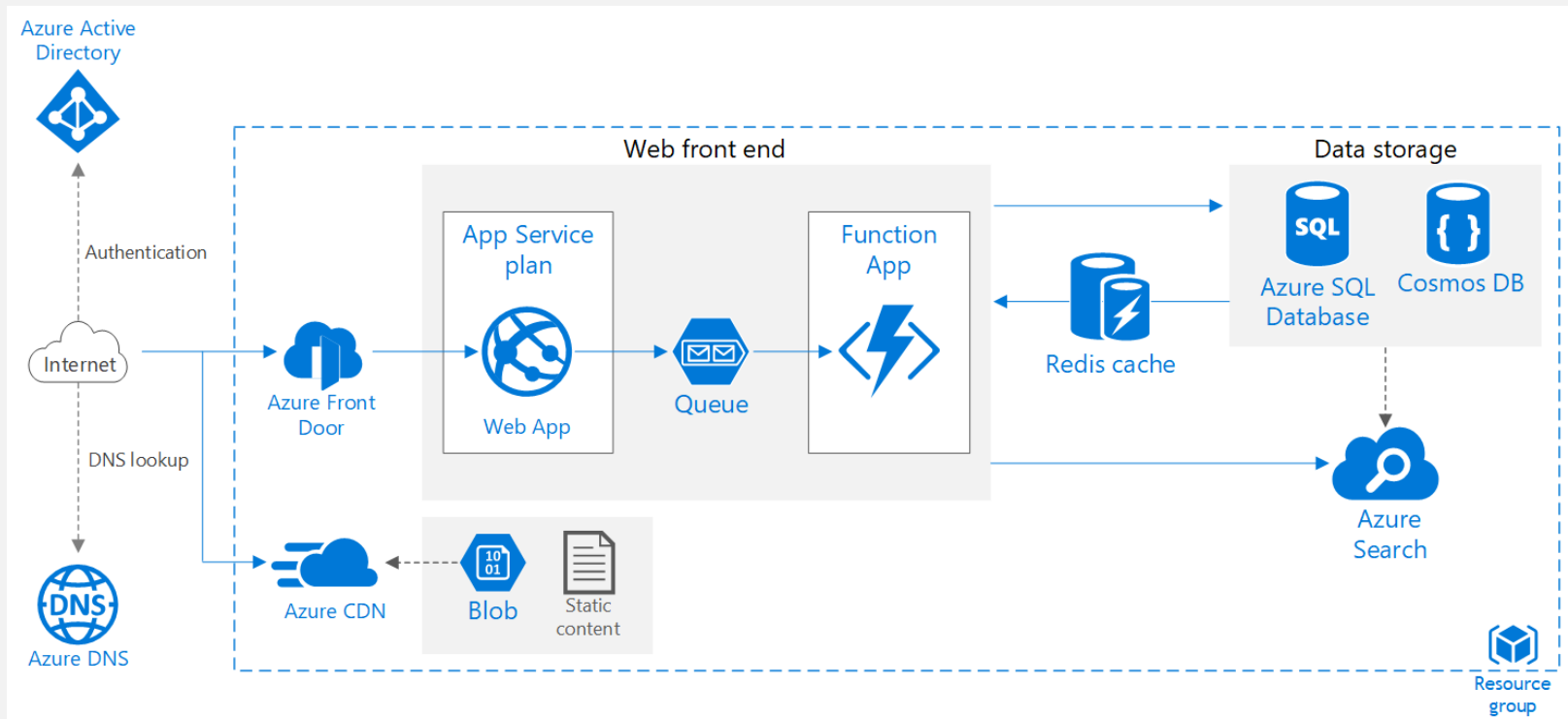
MODELOS

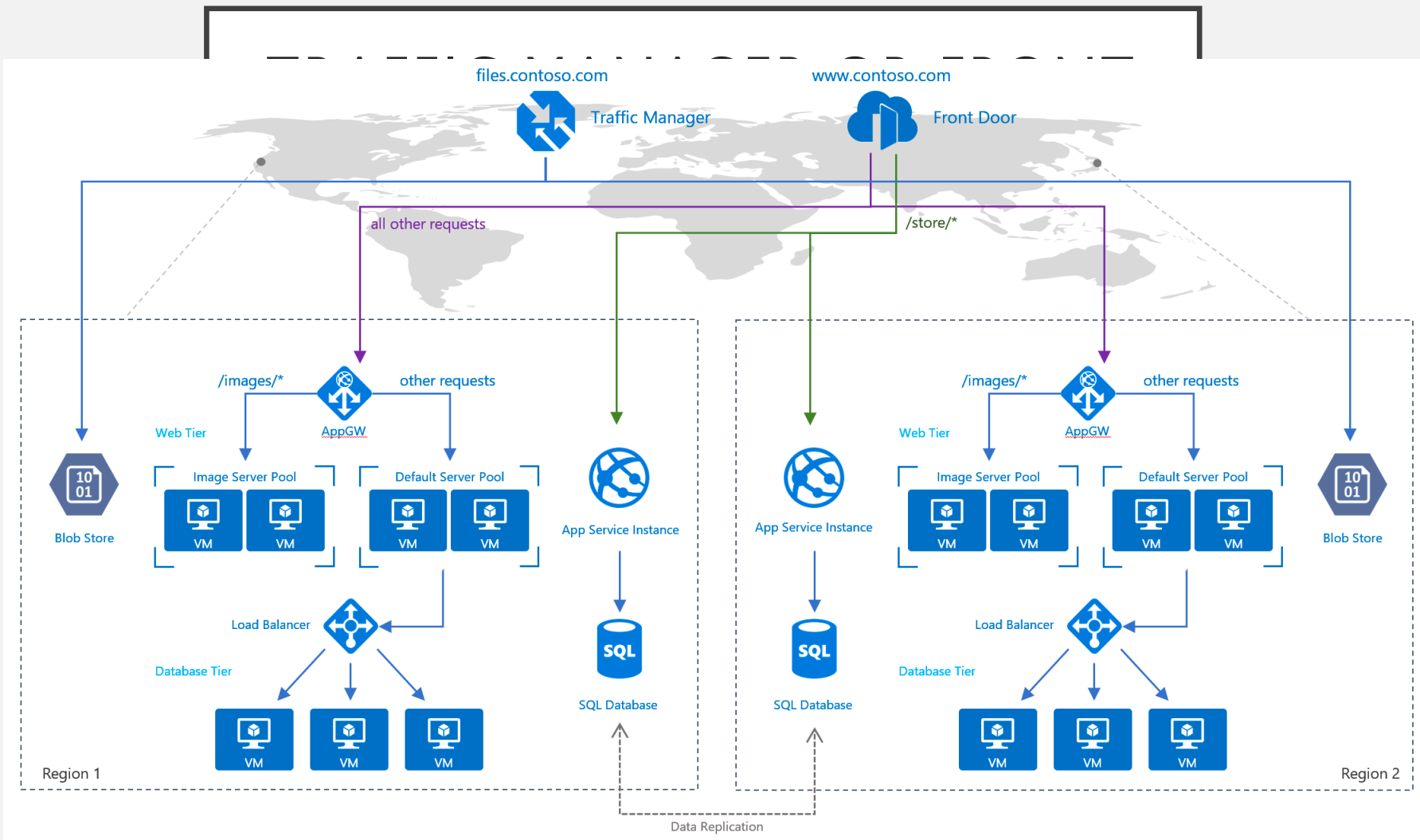


MODELOS



MODELOS





High Level Azure Services

Management

- Azure Monitor
- Log Analytics
- Azure Policy
- Azure Blueprints
- Azure Backup
- Site Recovery
- Azure Migrate
- Databox Family
- Cost Management

Platform as a Services (PaaS)



Security

- Security Center
- Azure AD
- Azure AD for Domain Services
- Azure AD B2C
- DDoS Protection
- Key Vault
- Multi-Factor Authentication
- Azure ATP
- Role-based access control

Infrastructure as a Services (IaaS)



Azure Datacenter Infrastructure

