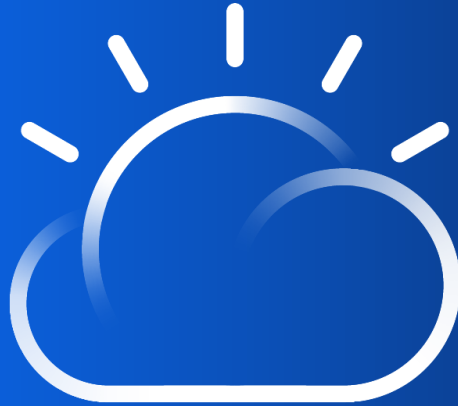


Moving Data Center Strategies: What to consider in an SDDC & SDN transition

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Moving Data Center Strategies: What to consider in an SDDC & SDN transition

Cloud platform designed to run business workloads at scale

#1. Optimized infrastructure for cloud-native applications

#2. Guaranteed QoS for compute, network, and storage

#3. Accelerators to speed up AI and analytics workloads

#4 Data center security



**Marco
fabric**

VS

**Micro
segmentation**

Marco Region-Level Deployment Model



APIs:

Virtual Compute

Virtual Storage

Virtual Networking

Security/Policy

Telemetry

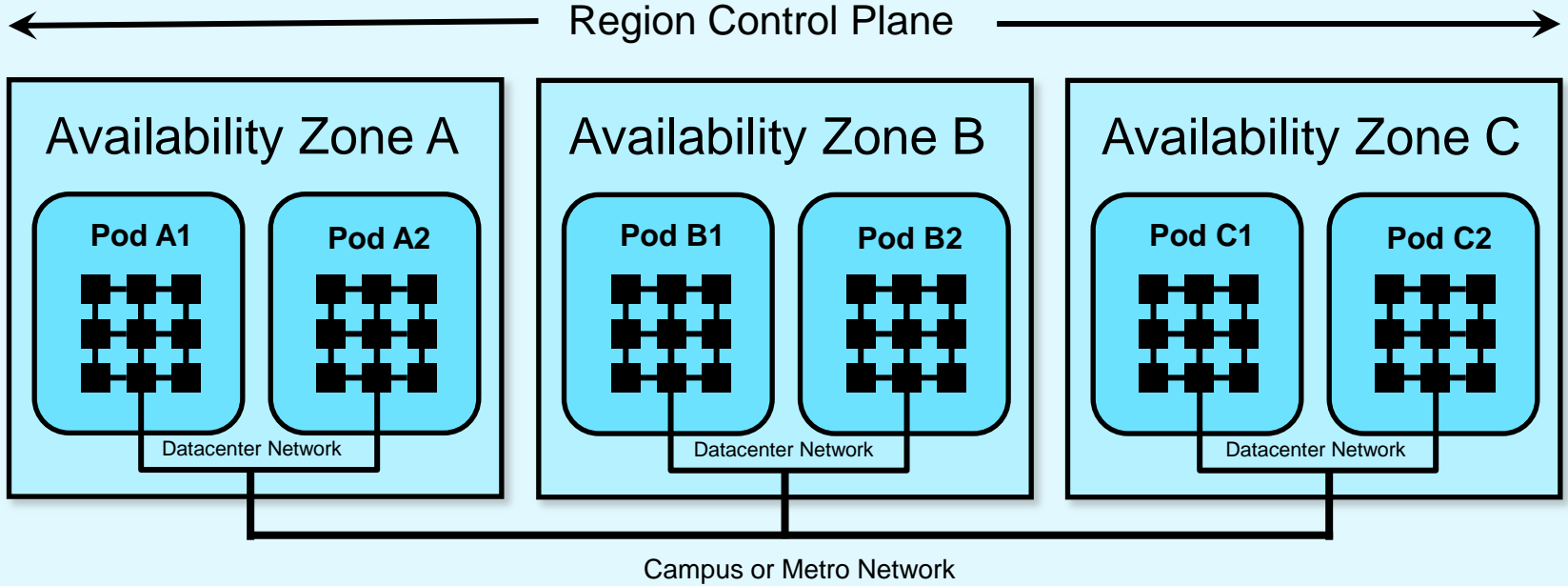
QoS/Availability

OSS

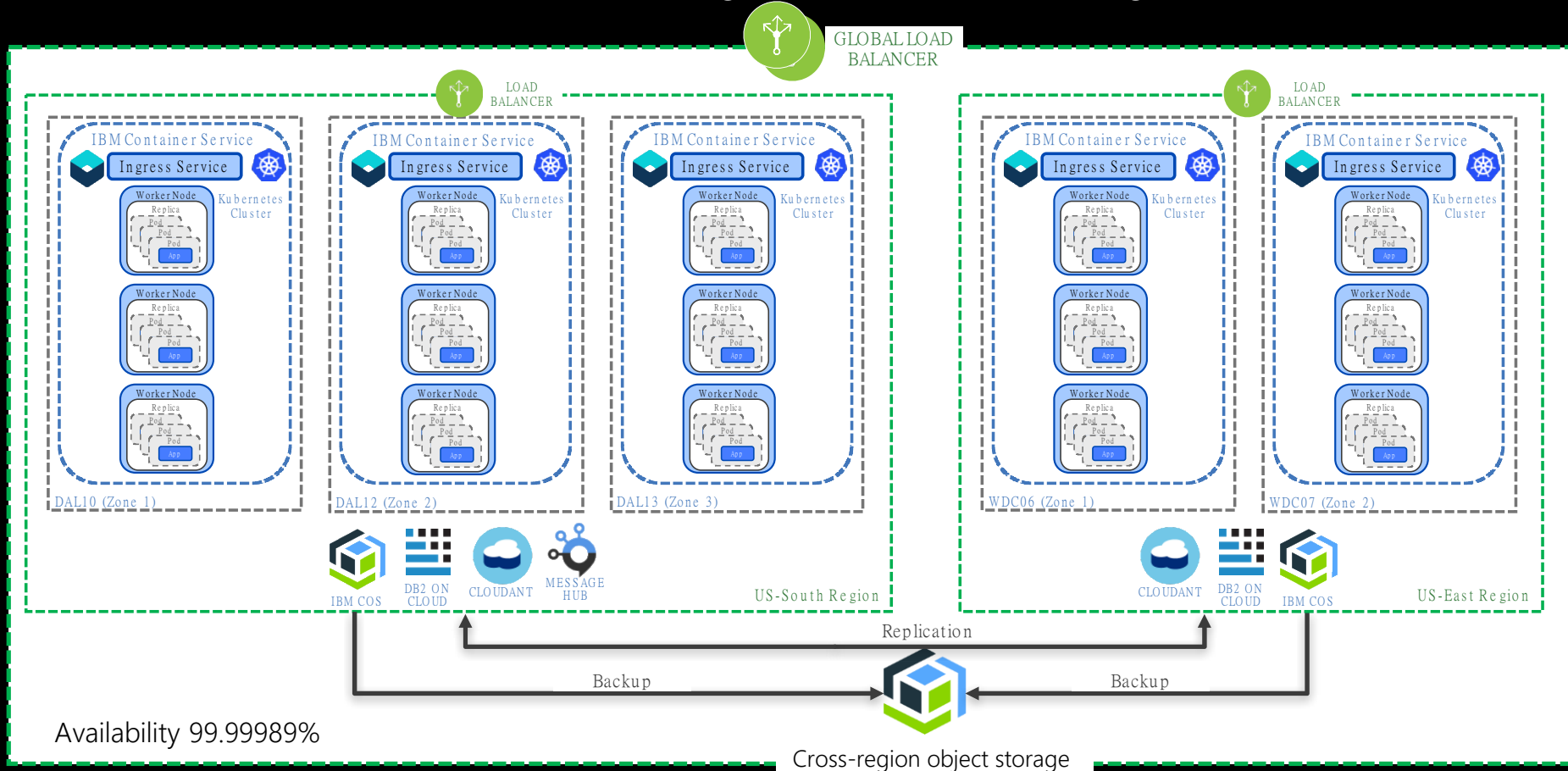
DC, Network,
Security, DevOps

BSS

Account, Identity,
Ordering, Billing, Support



Marco IBM Container Services- Multi-Region, Multi-Clusters Management



Fabric Infrastructure- built to support cloud-native / business apps with strong isolation & resilience



High performance

Can satisfy even the most demanding workload requirements



Built for resilience

AZs per region for HA; multiple regions per Geo for DR;



Strong isolation

Can intersperse mission-critical enterprise applications



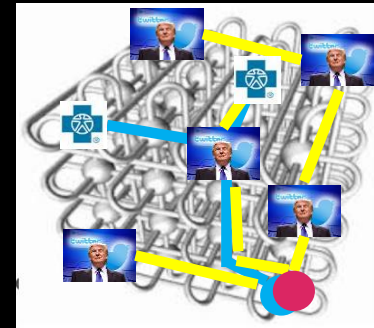
Software defined private cloud

Software-defined infrastructure

Network fabric Innovation

“High performance, multipathing, and traffic engineering”

- Every sled has Intel RRC switch chip; RRCs connected as 3D torus
- Forwarding rules: hop-by-hop to create virtual private networks
- 100 Gbps delivered to each sled + 100 Gbps to each neighbor; 1.5us hop latency



“Control plane can isolate high-QoS traffic from best-effort traffic to guarantee SLAs

Marco

fabric

VS

Micro

segmentation

Network Micro-Segmentation

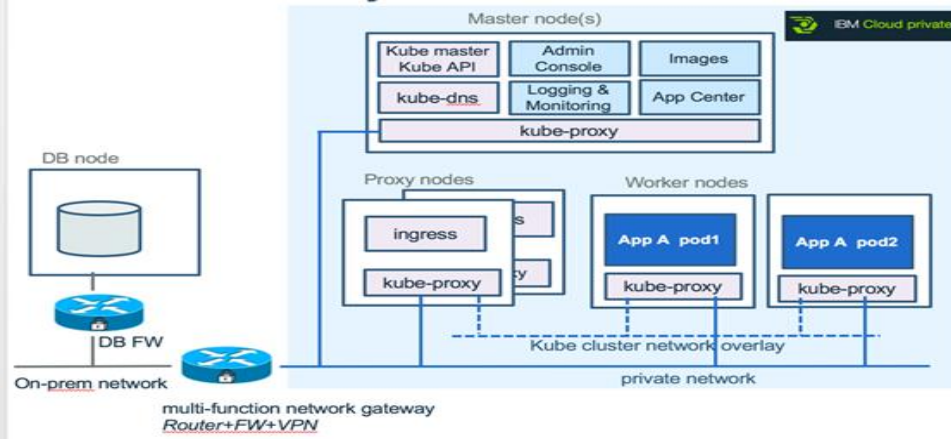
Kubernetes SDN – Calico- Network policy

Isolated Tenant Networks isolation inside your cluster.

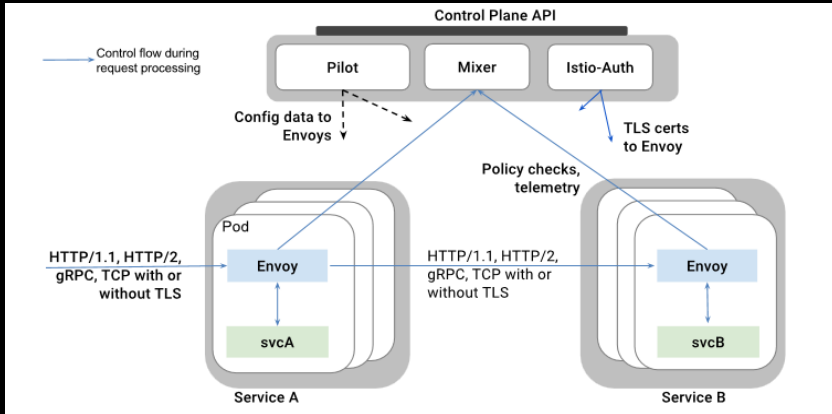
Added security during data transmissions and reduces the chances of compromising applications and their data.

Network isolation running on the same physical or virtual machines with network policy sharing of objects within a **single Namespace**.

Kubernetes SDN Architecture



Microservices – Service Mesh



Container based-ML/DL scaling

Faster data processing for large scale analytics & AI

