

CXS1206BCN

vmware® EXPLORE

VMware Cloud Provider Platform

End-to-End Architecture

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Staff Consulting Architect, VMware PSO

#vmwareexplore #CXS1206BCN



Agenda

The Cloud Provider Platform

Tenant Use Cases & Architecture

Q & A

Presenter



Abdullah Abdullah
Staff Consulting Architect



The Cloud Provider Platform



VMware Cloud Provider

Infrastructure as a Service

- Virtual Machines
- vApp
- Virtual Data Centers
- Dedicated Clusters
- Dynamic Resources
- High Availability
- GPU
- Auto Scaling

Network as a Service

- Logical Routing & Switching
- Advanced Load Balancing
- Data Center Networking
- VPN
- Public IP
- External Networks
- DHCP
- DNS

Security as a Service

- Firewall
- Edge Security
- Web App FW & DDoS
- NAT
- Distributed Firewall
- Security Groups
- Compliance
- IPS/IDS
- IDP Proxy

Data Protection as a Service

- Cold, Warm and Hot Migration
- Disaster Recovery to cloud and cloud to cloud
- Data Protection with Ecosystem Partners: Dell, Zerto, Veeam, Cohesity, Rubrik, Commvault

Container as a Service

- Native Kubernetes Cluster Services
- Application Container Services
- Tanzu® Kubernetes Cluster Services
- Backup Kubernetes
- Data Solution

Storage as a Service

- Replication Services
- Data Redundancy
- Scalability
- Hyper-Converged Infra
- IOPS Policies
- Block Object File Storage services

Monitoring & Management services

- Monitoring/Alerting
- Metering
- Log Management
- Capacity Planning
- Reports
- Patching

Application Catalog as a Service

VMware Cloud Director™

VMware Chargeback

VMware Aria Operations™

VMware Aria Operations™ for Logs

VMware vSphere® (Compute)

VMware vCenter Server® (Management)

Core SDDC Platform

VMware NSX® (Network & Security)

VMware vSAN™ (Storage & Availability)

Physical Infrastructure

Compute

Networking

Storage

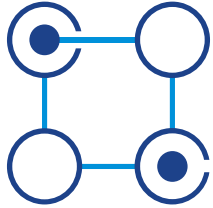
Tenant Use Cases & Architecture



Infrastructure as a Service



Virtual Machines



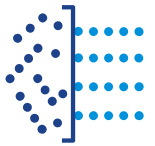
vApp



Virtual Data Centers



Dedicated Clusters



Dynamic Resources



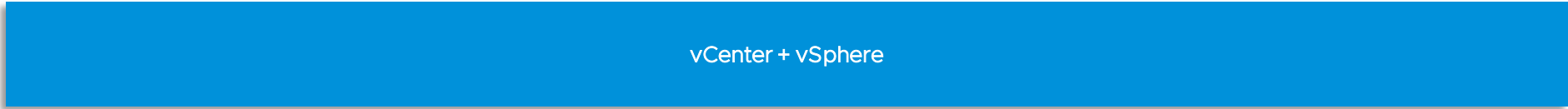
High Availability



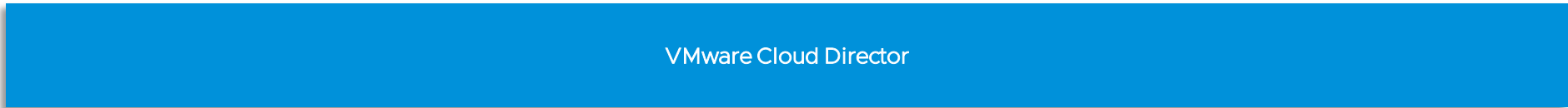
GPU



Auto Scaling



vCenter + vSphere

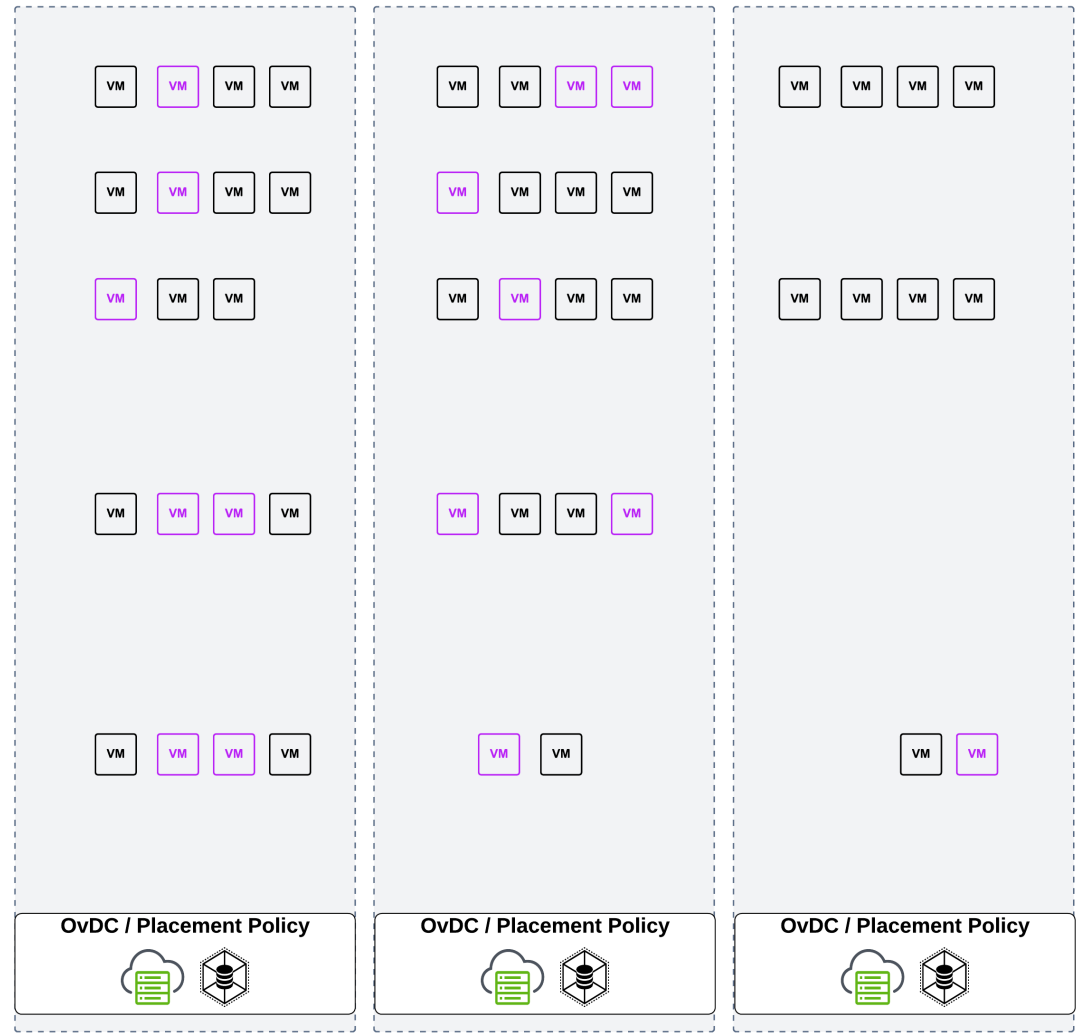


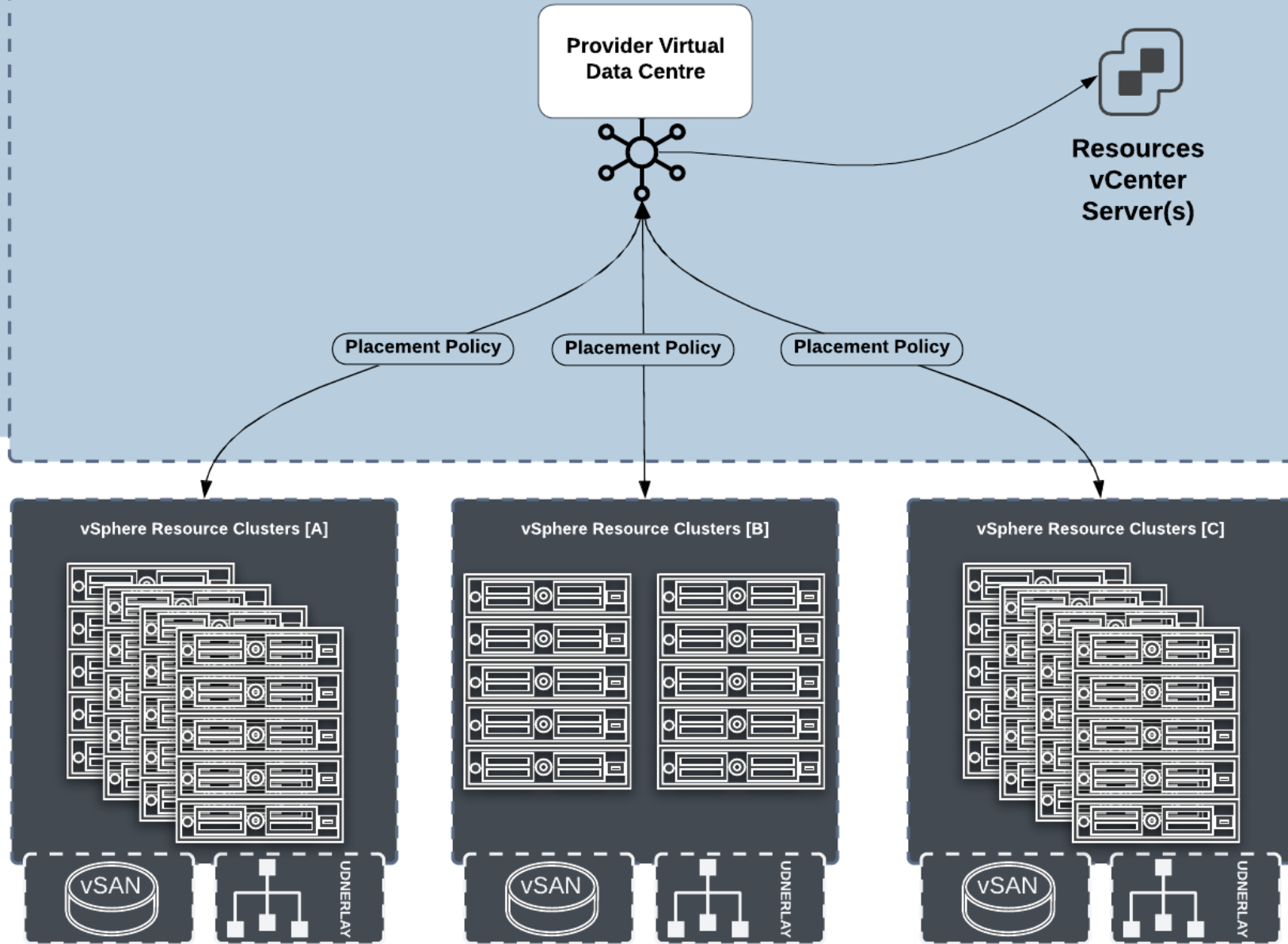
VMware Cloud Director

Tenant View

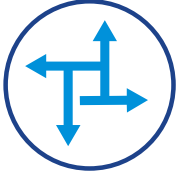
Provider Space

Tenant

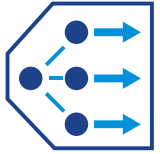




Network as a Service



Logical Routing & Switching



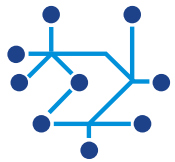
Advanced Load Balancing



Data Center Networking



VPN



Public IP



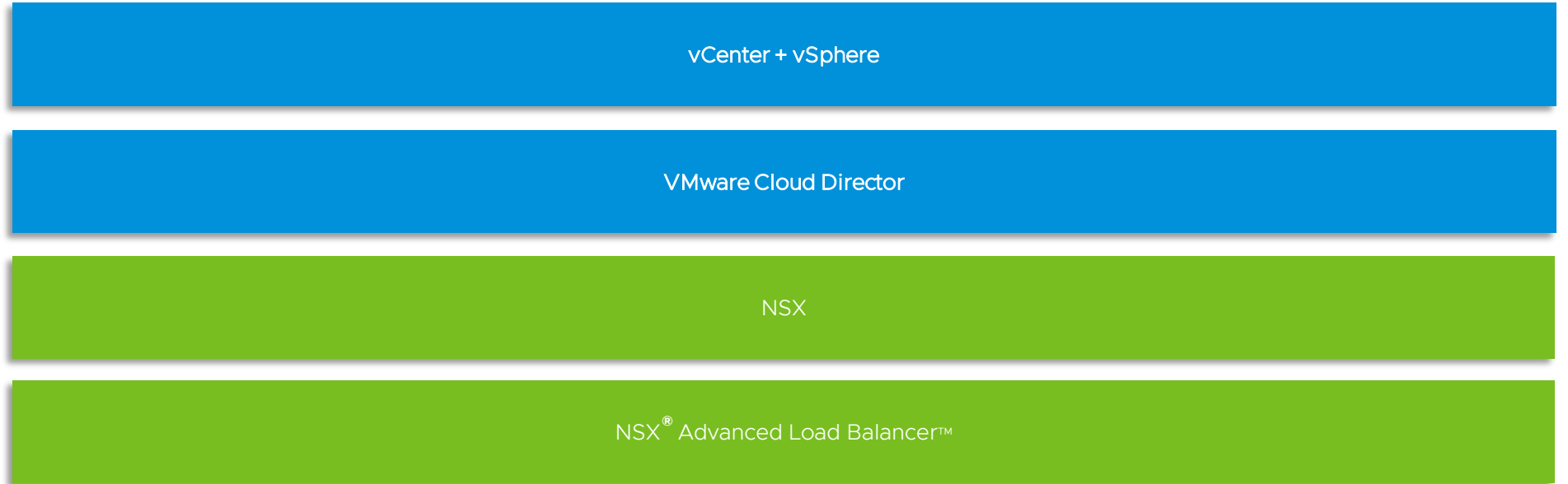
External Networks



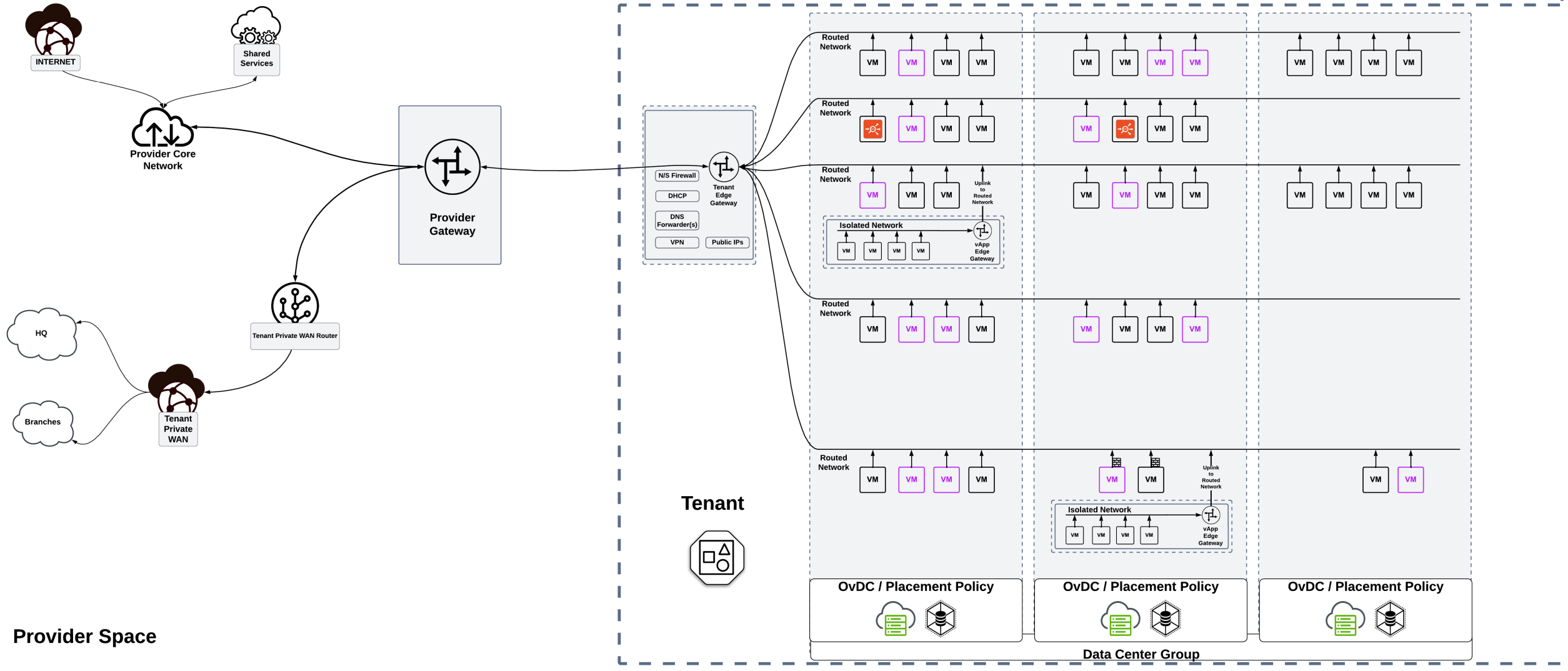
DHCP

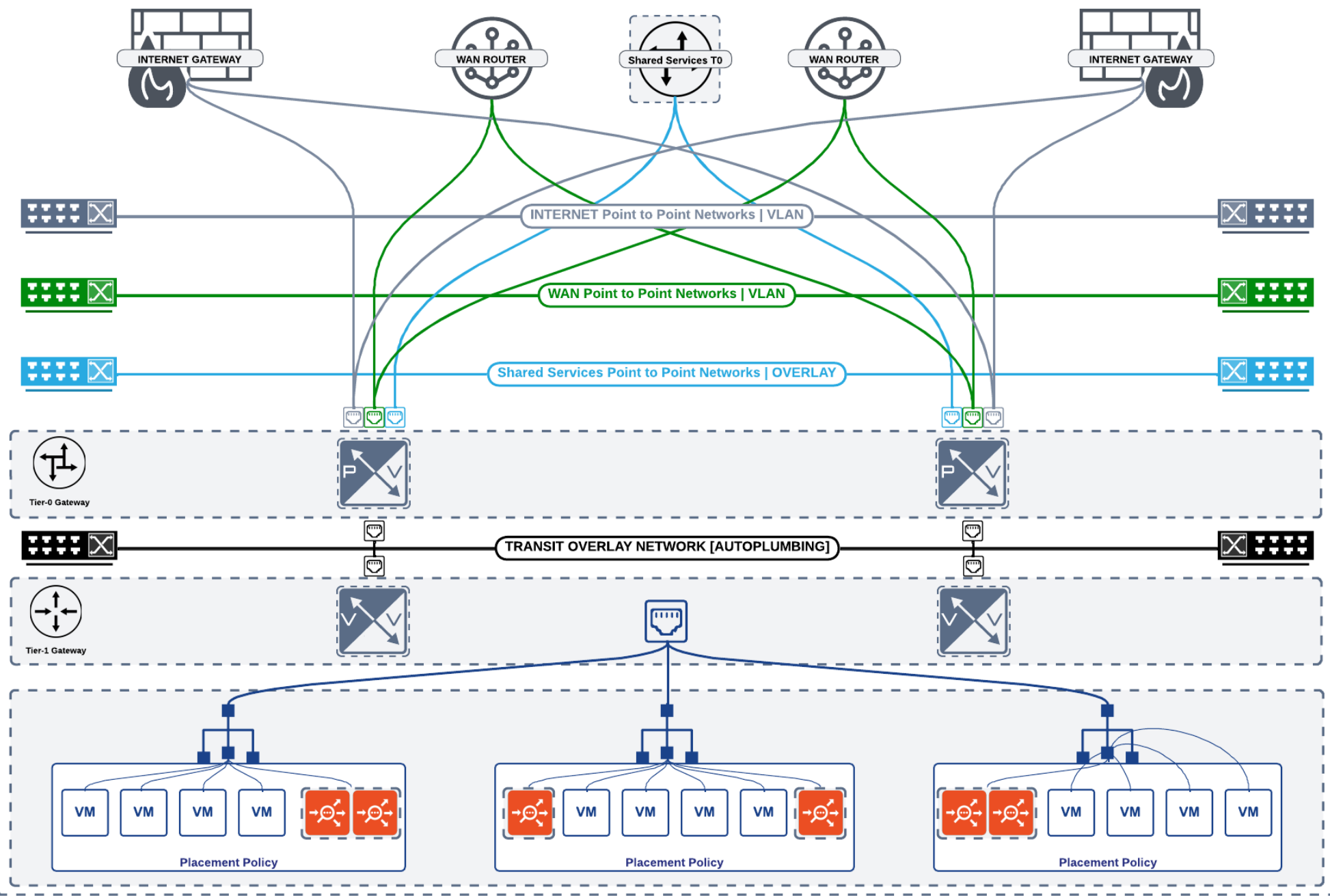


DNS

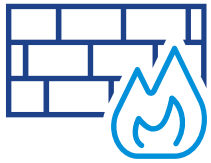


Tenant View





Security as a Service



Firewall



Edge Security



Web App FW
& DDoS



NAT



Security Groups



Distributed
Firewall



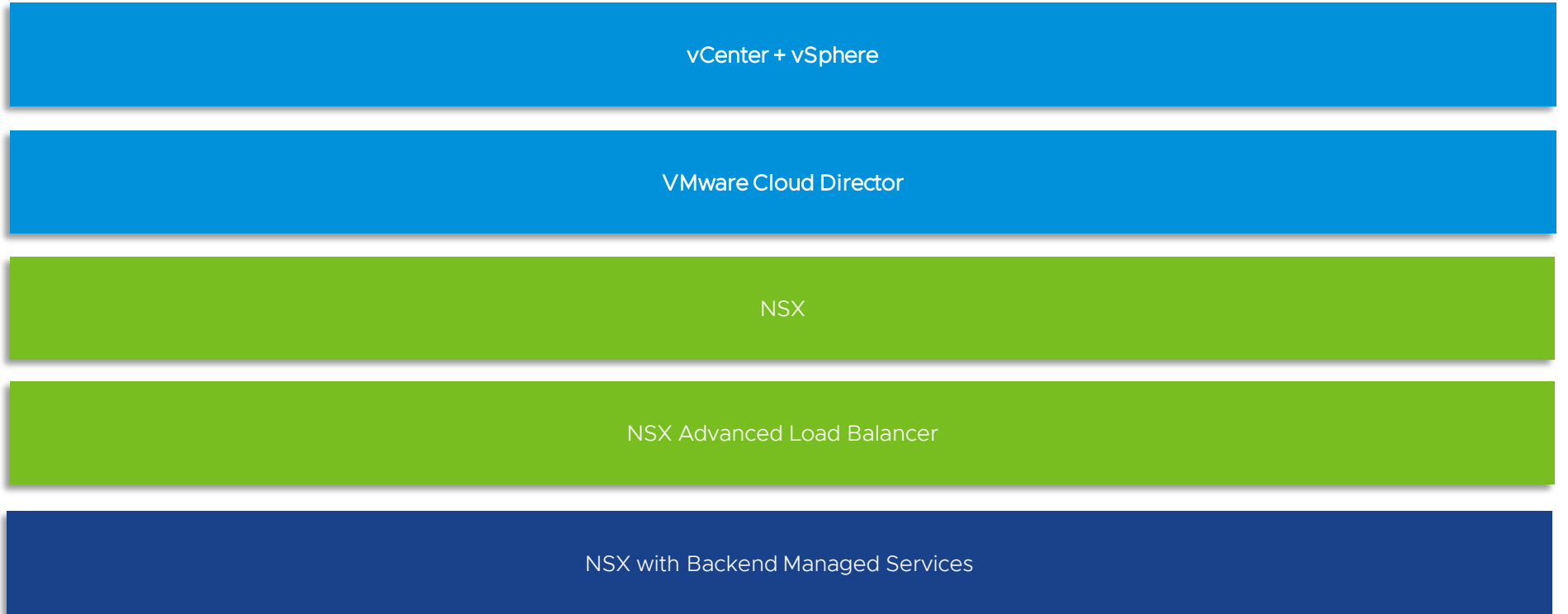
Compliance



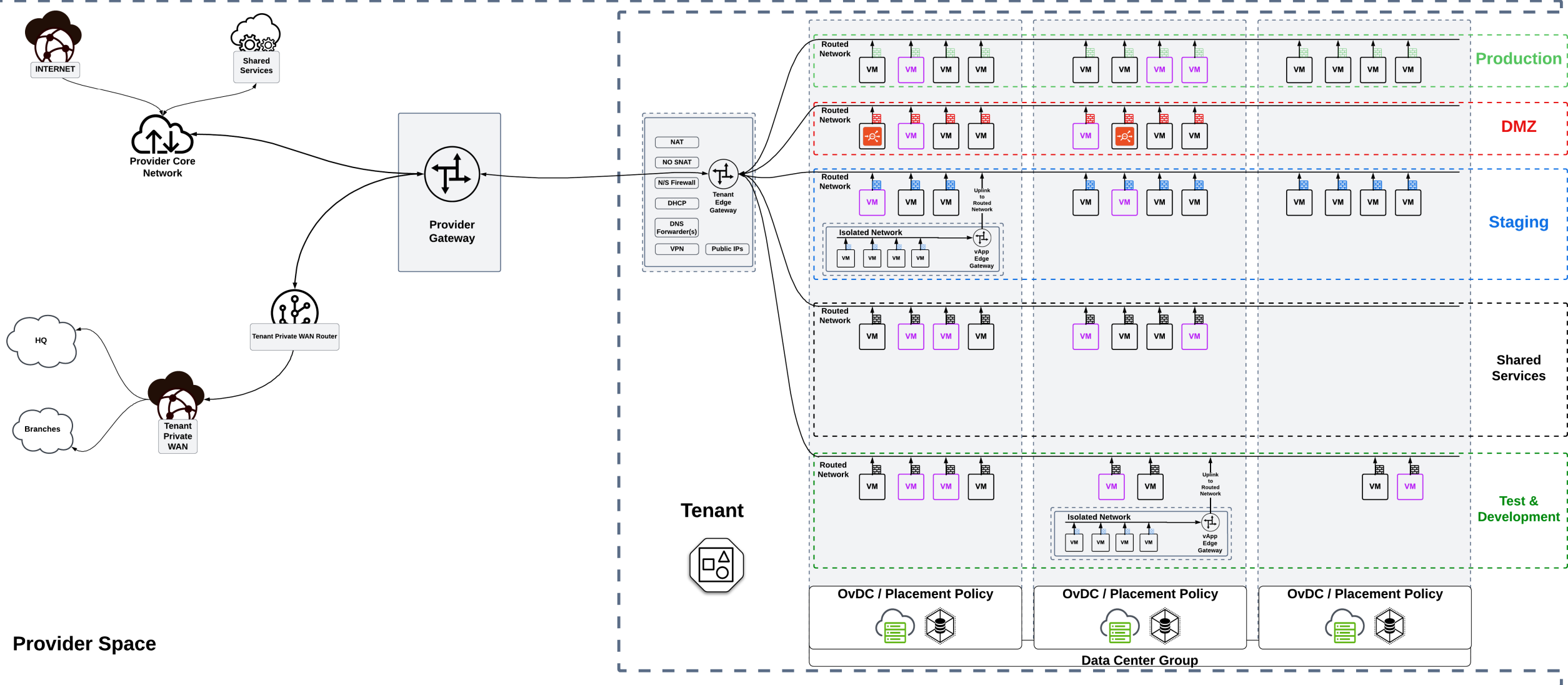
IPS/IDS



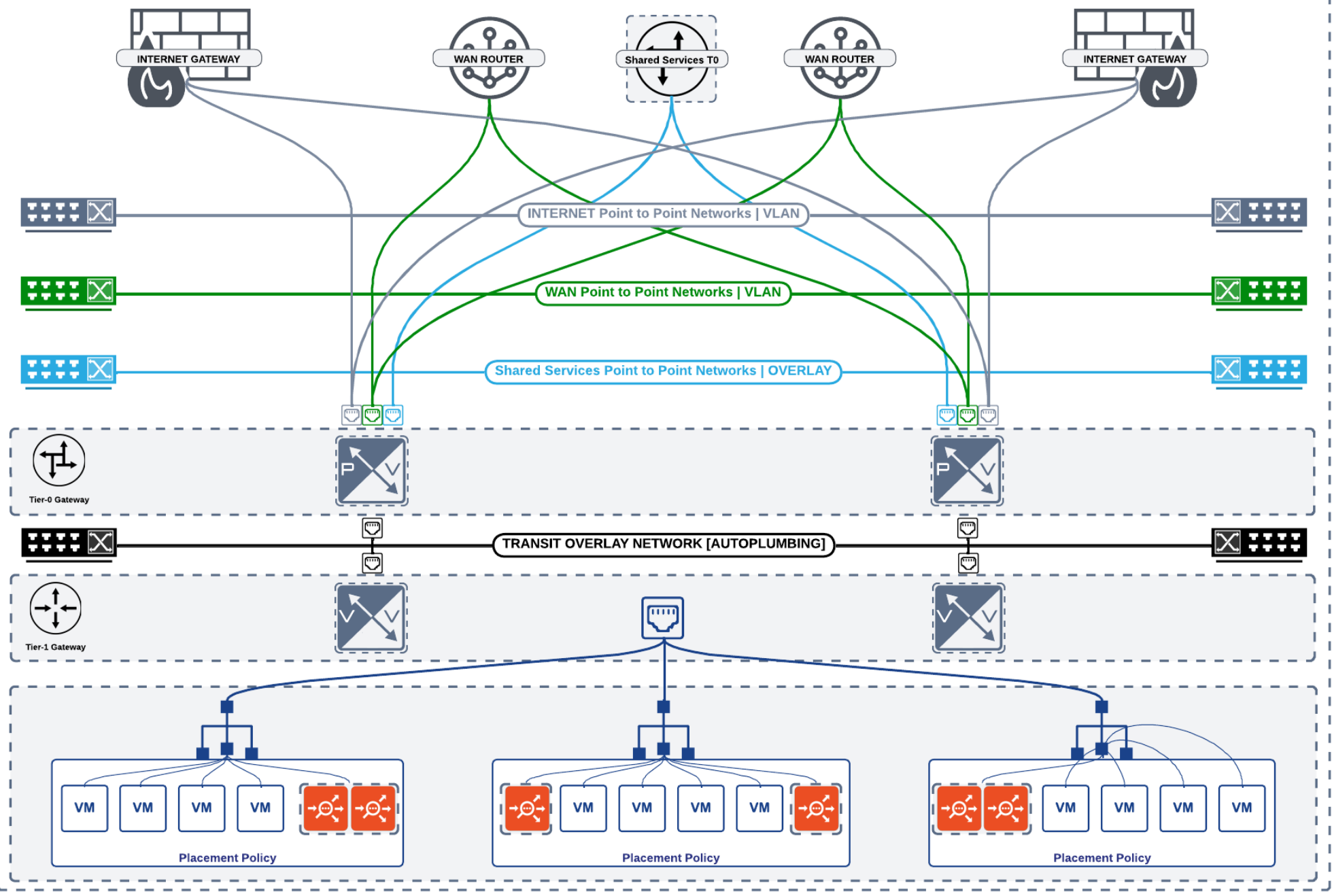
IDP Proxy



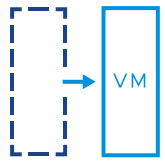
Tenant View



Service Provider View



Data Protection as a Service



Cold, Warm and Hot Migration

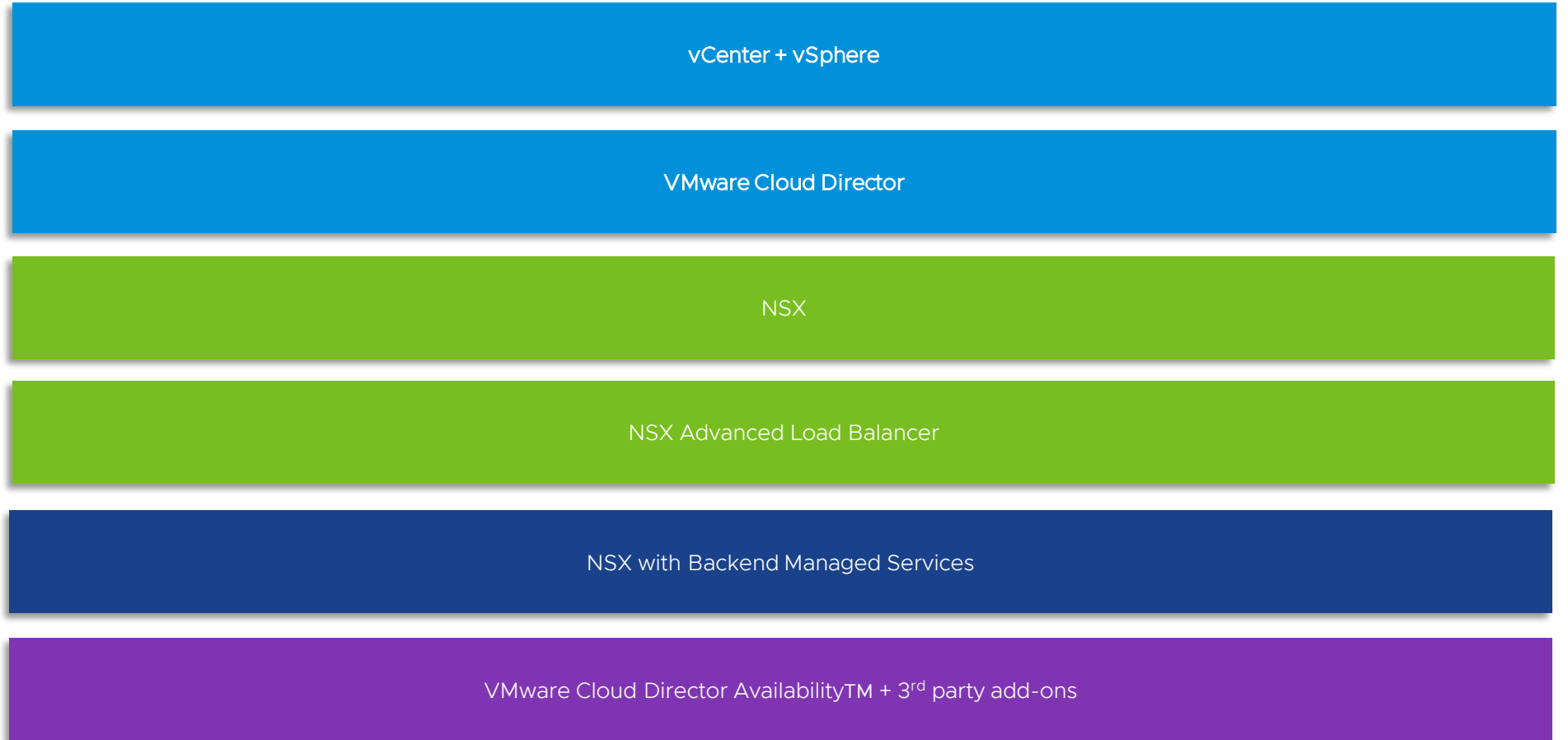


Disaster Recovery to cloud and cloud to cloud

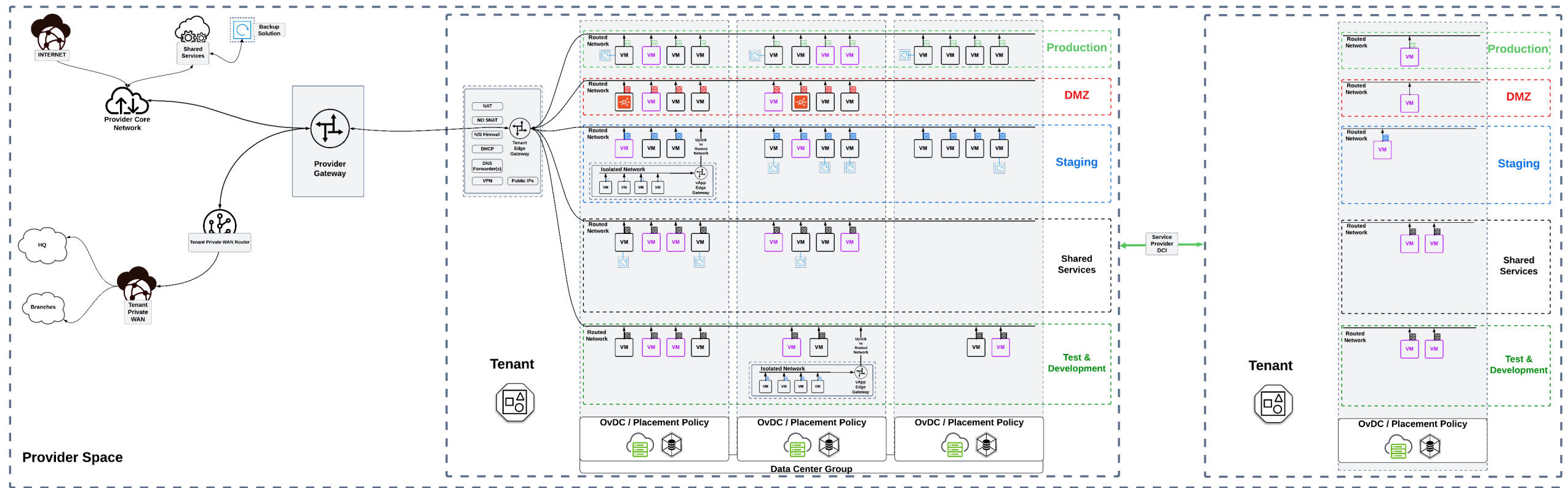


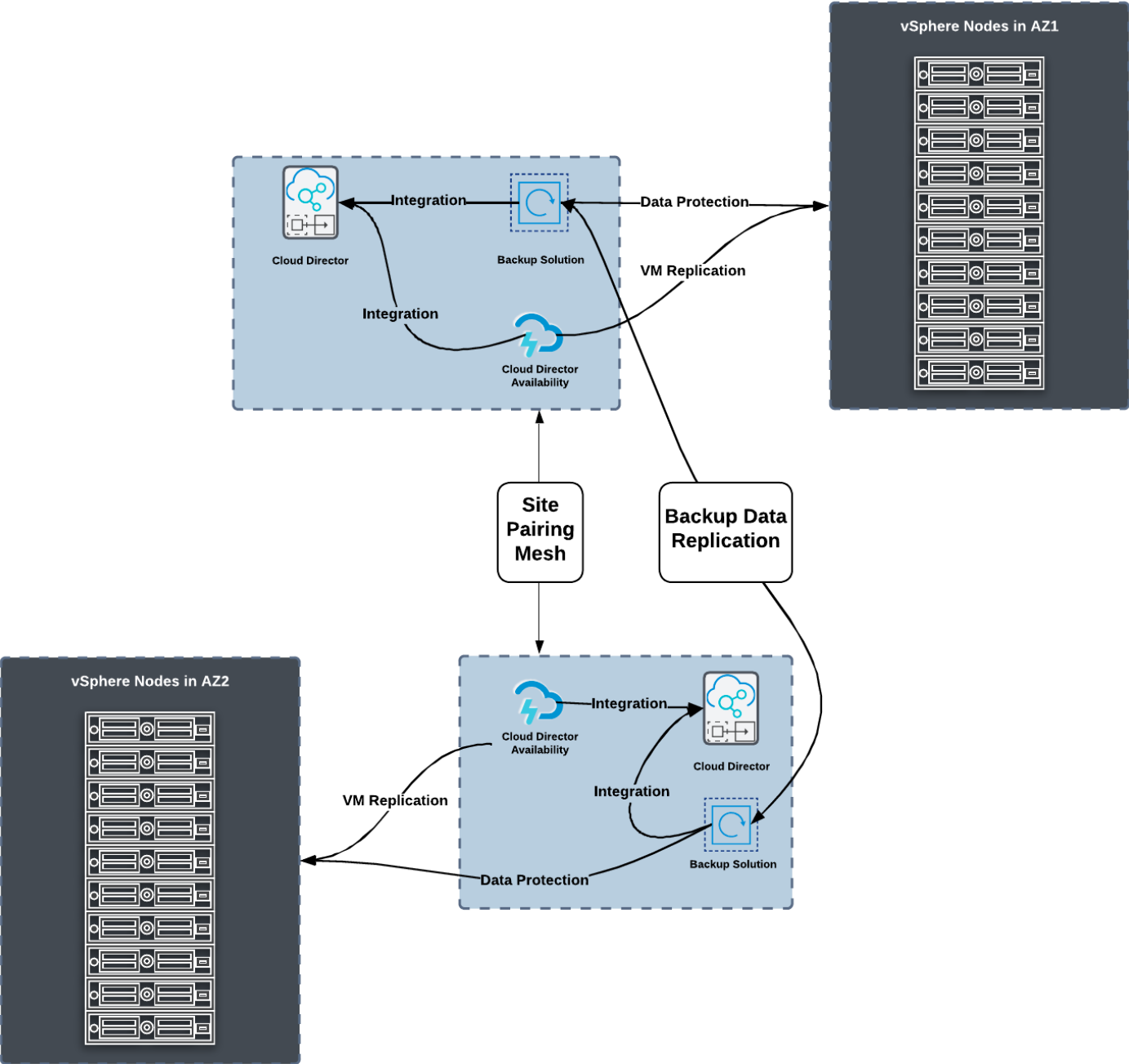
Data Protection with Ecosystem Partners:

Dell, Zerto, Veeam, Cohesity, Rubrik, Commvault



Tenant View





Container as a Service



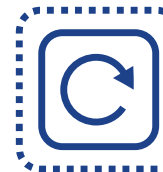
Native Kubernetes Cluster Services



Application Container Services



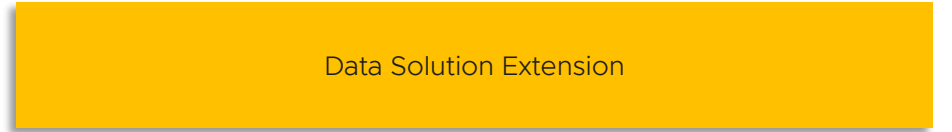
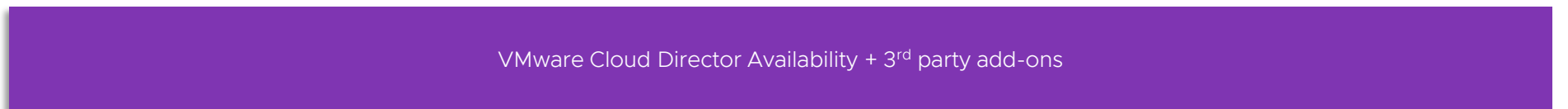
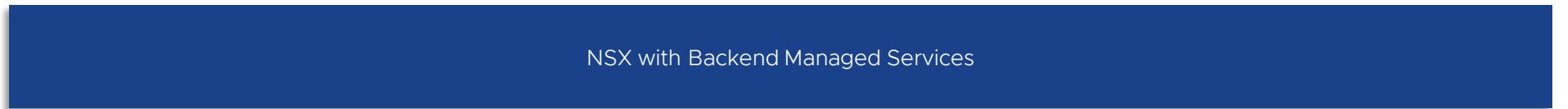
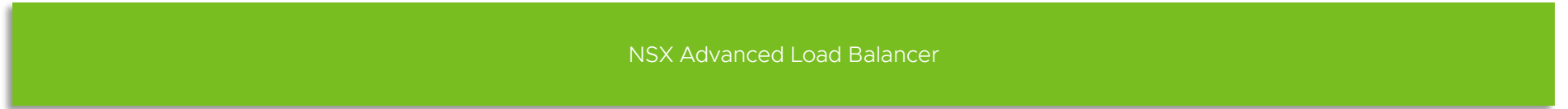
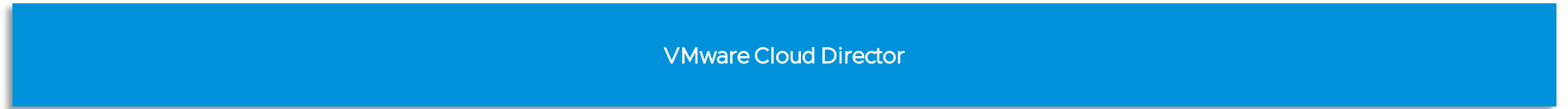
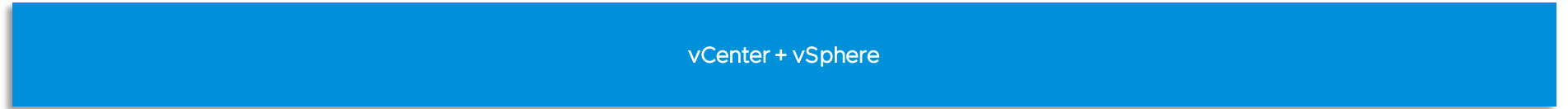
Tanzu Kubernetes Cluster Services



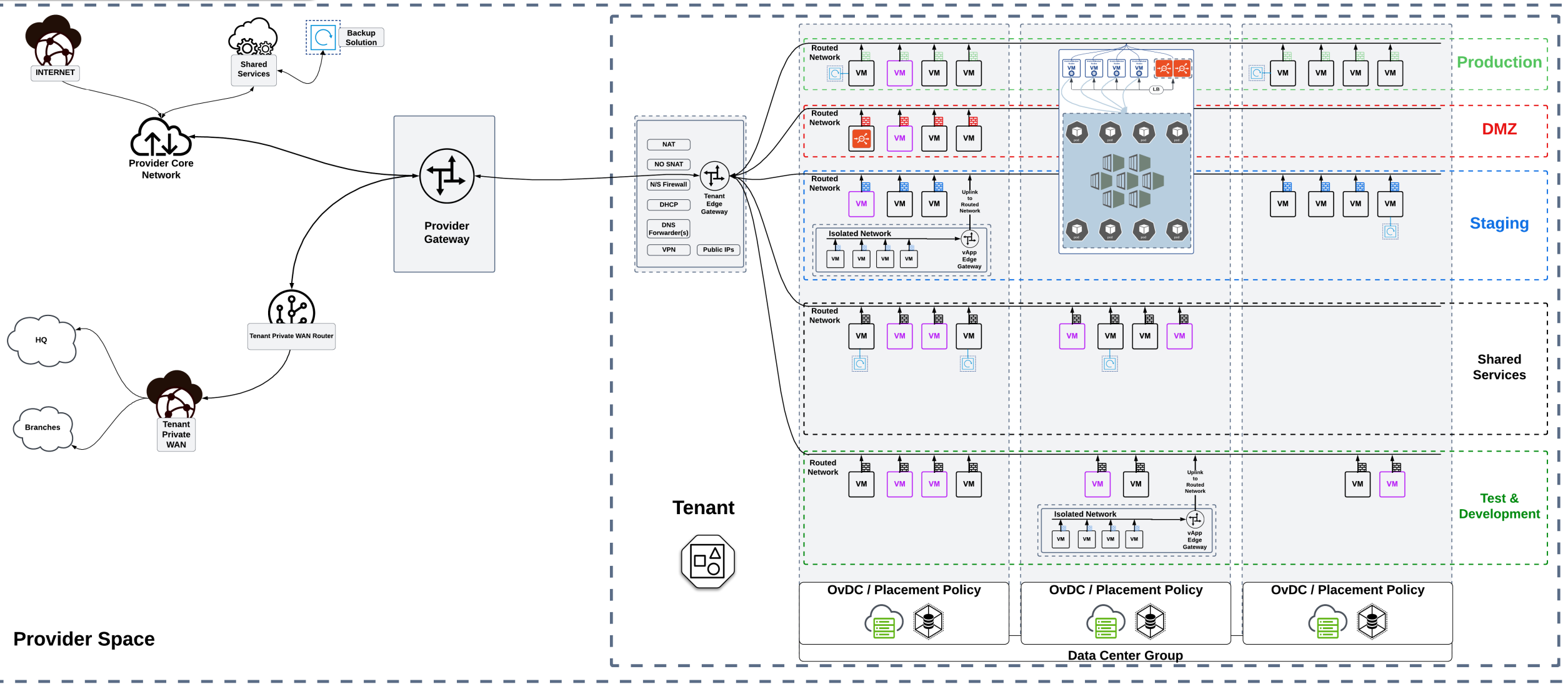
Backup Kubernetes

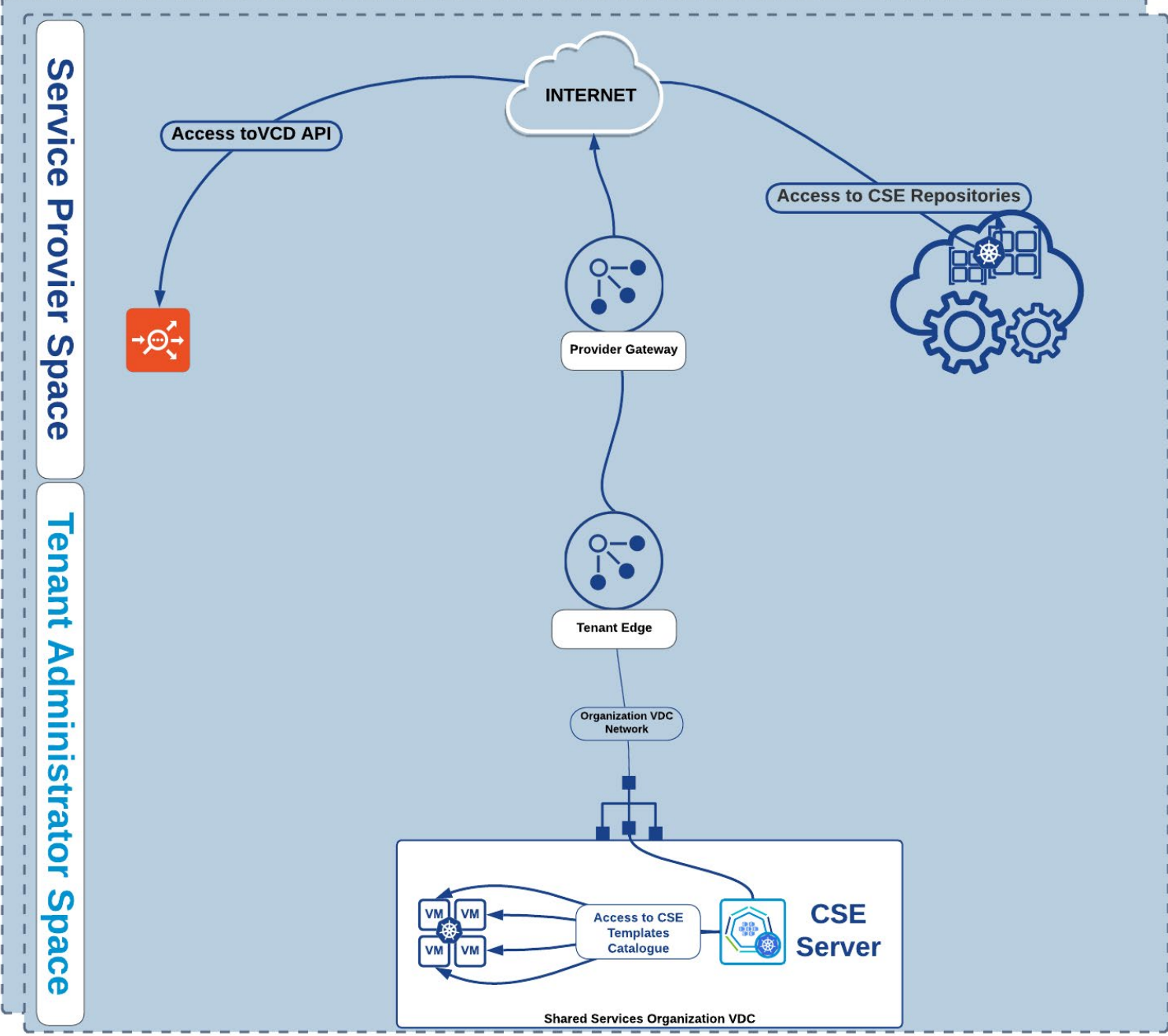


Data Solution

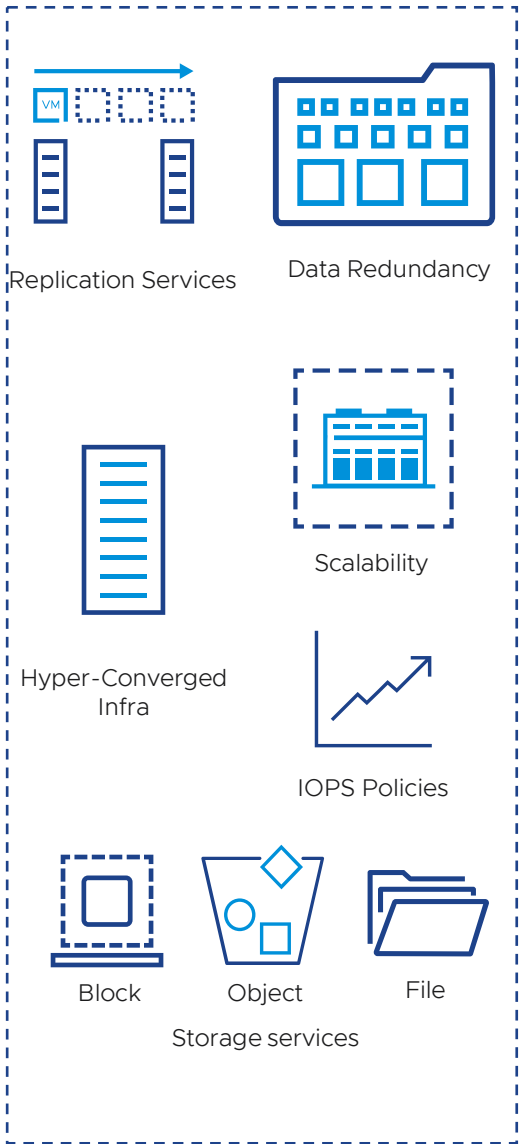


Tenant View





Storage as a Service



vCenter + vSphere

VMware Cloud Director

NSX

NSX Advanced Load Balancer

NSX with Backend Managed Services

VMware Cloud Director Availability + 3rd party add-ons

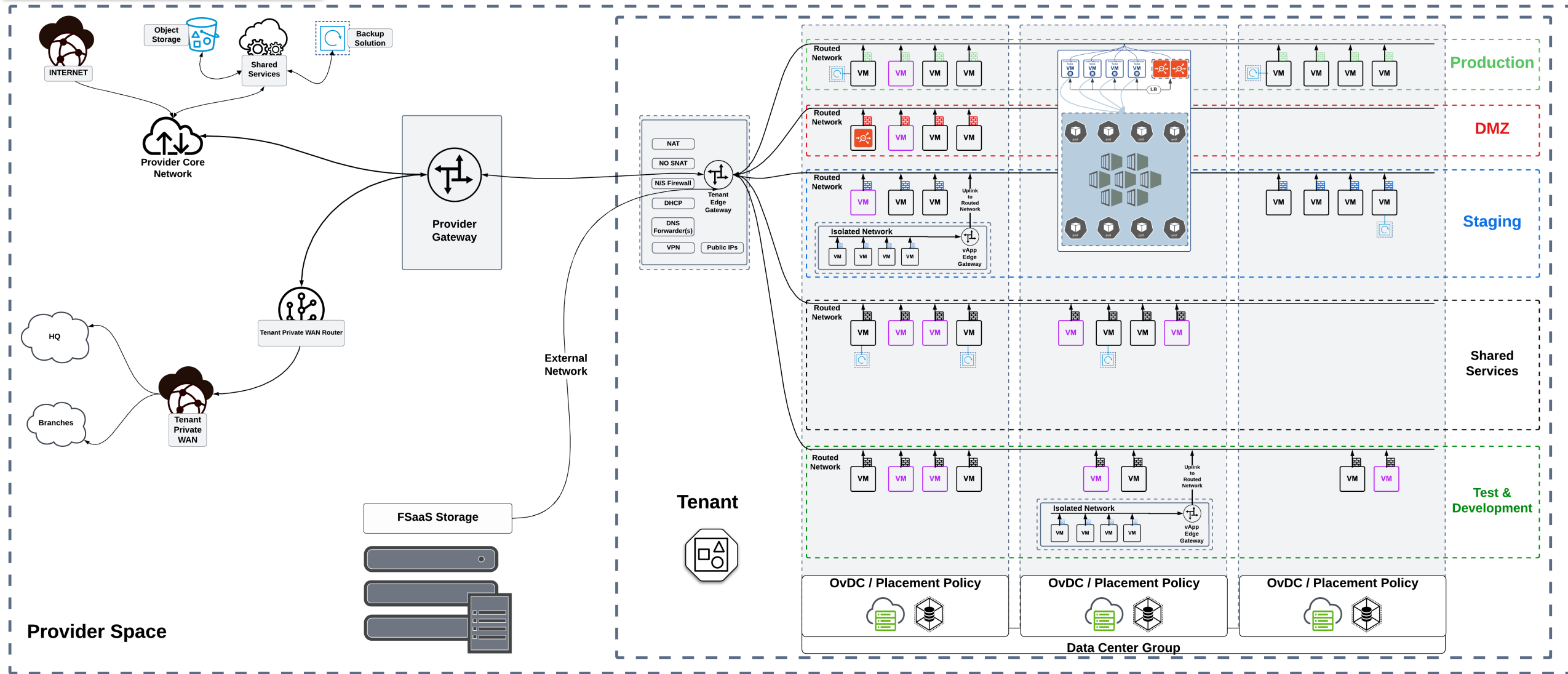
Container Services Extension

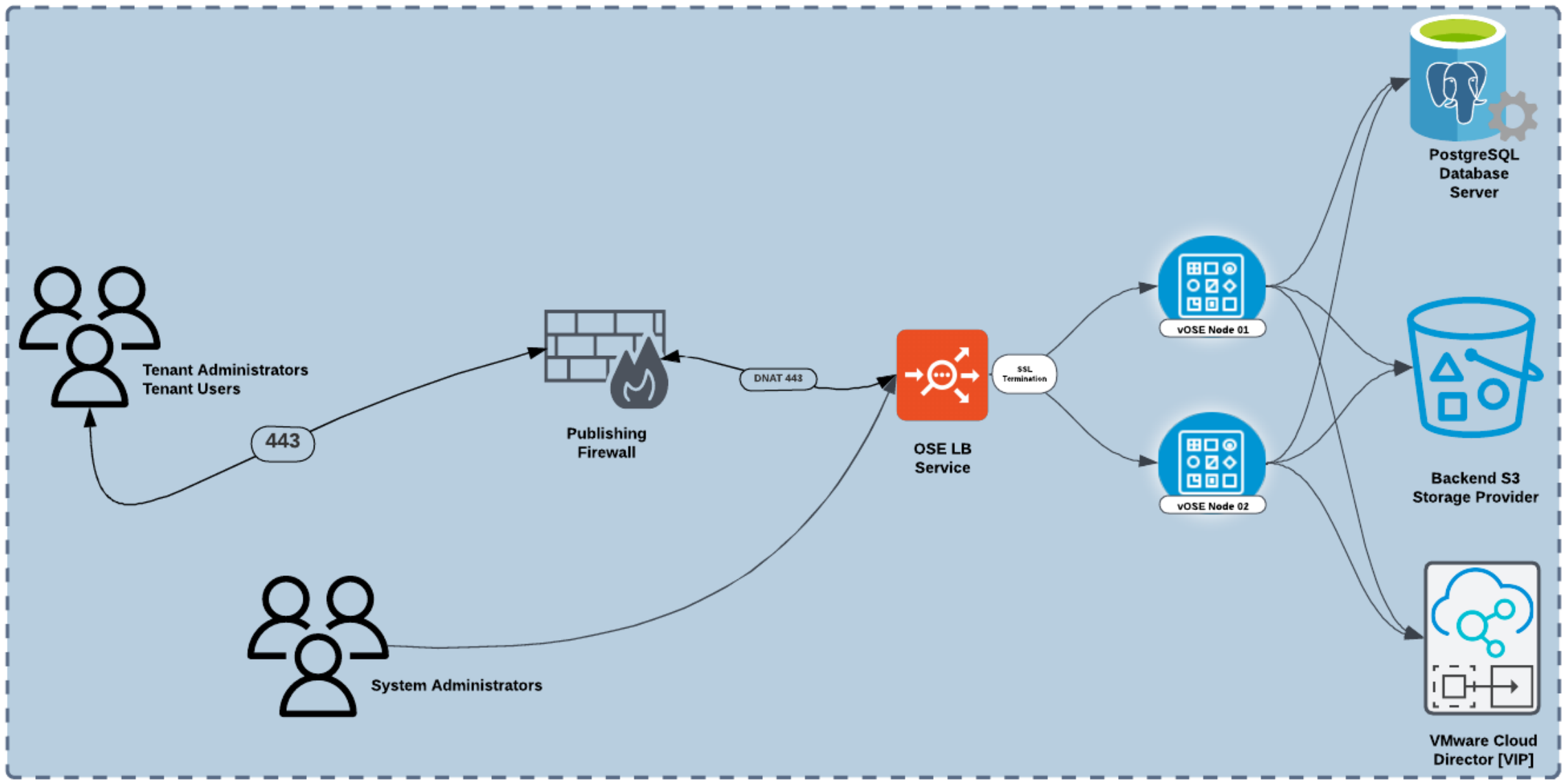
Data Solution Extension

Object Storage Extension

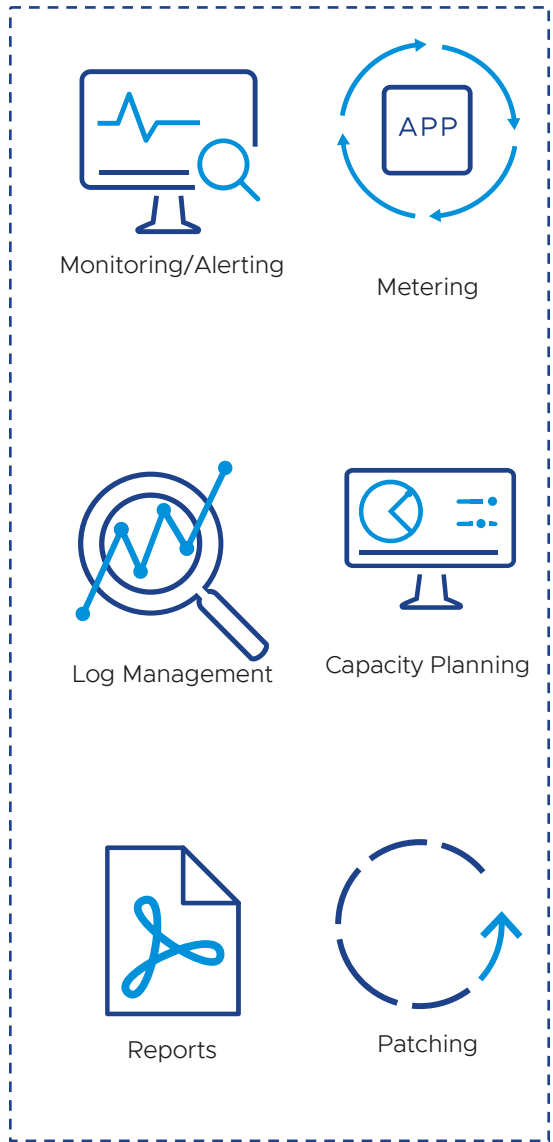
3rd party file services

Tenant View





Monitoring & Management Services



vCenter + vSphere

VMware Aria Operations

Cloud Director

NSX

Aria Chargeback

NSX Advanced Load Balancer

NSX with Backend Managed Services

Aria Operations for Logs

Cloud Director Availability + 3rd party add-ons

Container Services Extension

Data Solution Extension

Tanzu Mission Control

Aria Operations for Networks

Object Storage Extension

3rd party file services

Questions...

Questions...

Questions...



Thank You

