

VCF 9.1

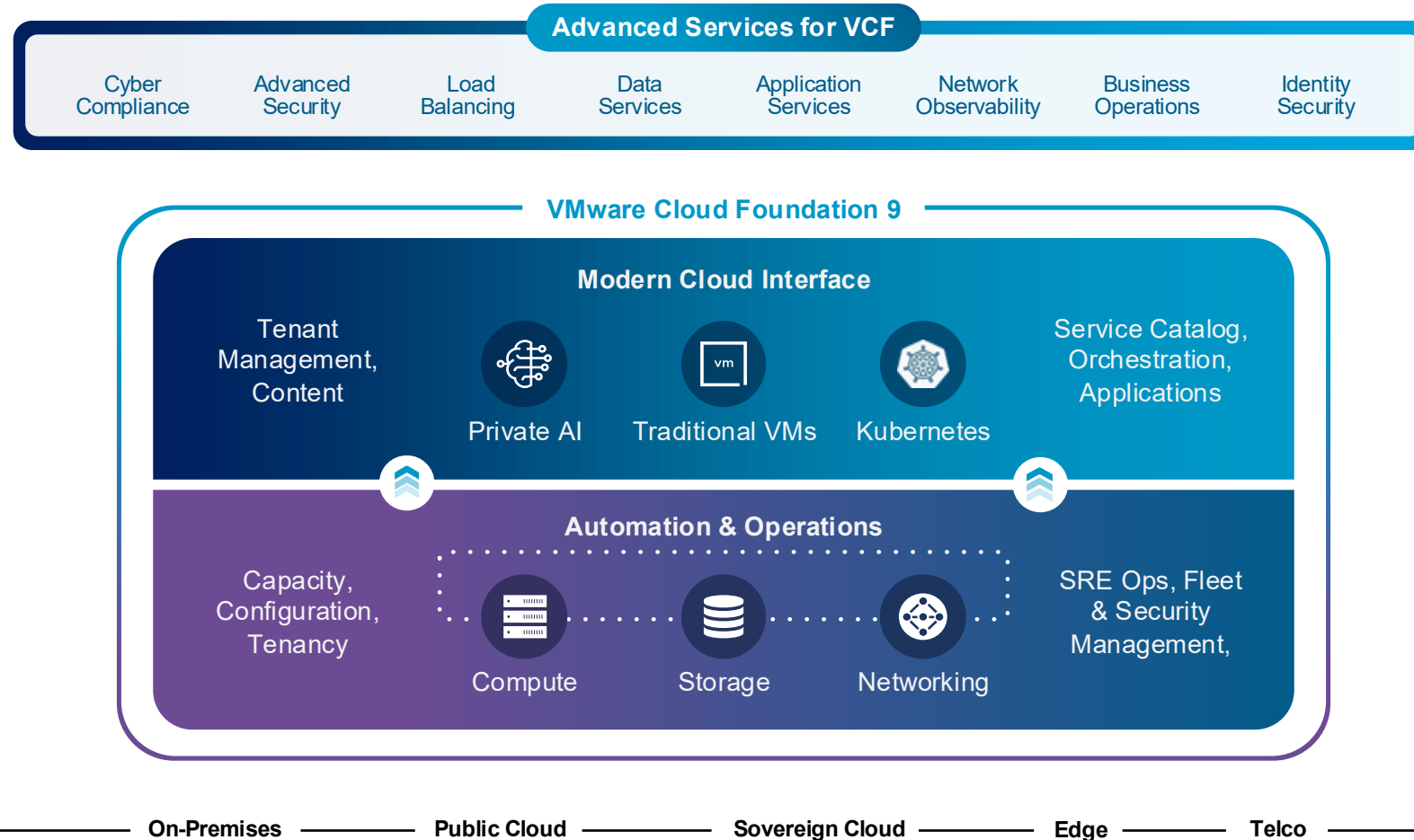
Hardware optimal nutzen für
bestehende und neue Anwendungen

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Solution Architect Cloud Management, Broadcom

July 2026

VMware Cloud Foundation 9 – Your private cloud





VCF 9 - Delivering Tangible Outcomes and Benefits

Most Cost-Effective, Secure Platform for Private AI



Up to

40%

**Reduced
Server TCO**

with enhanced
NVMe memory
tiering ¹



Up to

39%

**Lower
Storage TCO**

compared to
external storage
arrays ¹



Up to

5x

**Better Containers
Density**

compared to
competitor's
platform ²



**Zero
Downtime
vMotion for AI**

with vGPU
vMotion
optimizations



Up to

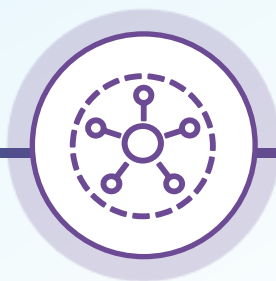
40%

**Risk
Reduction**

with vDefend
Lateral
Security ³

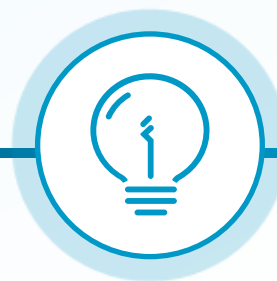
Most Cost-Effective, Secure Platform for Private AI

To address rising AI demand, growing geopolitical pressure and tighter budgets



EFFICIENT INFRASTRUCTURE AND OPERATIONS AT SCALE

AI-ready infrastructure that runs at higher utilization, cutting hardware and operational waste.



HIGH VELOCITY APPLICATION DELIVERY

Modern workload platform to run AI, containers and VMs side by side.



CYBER RESILIENCE AND DATA SECURITY

Zero-trust architecture and infrastructure resilience for data sovereignty and governance.

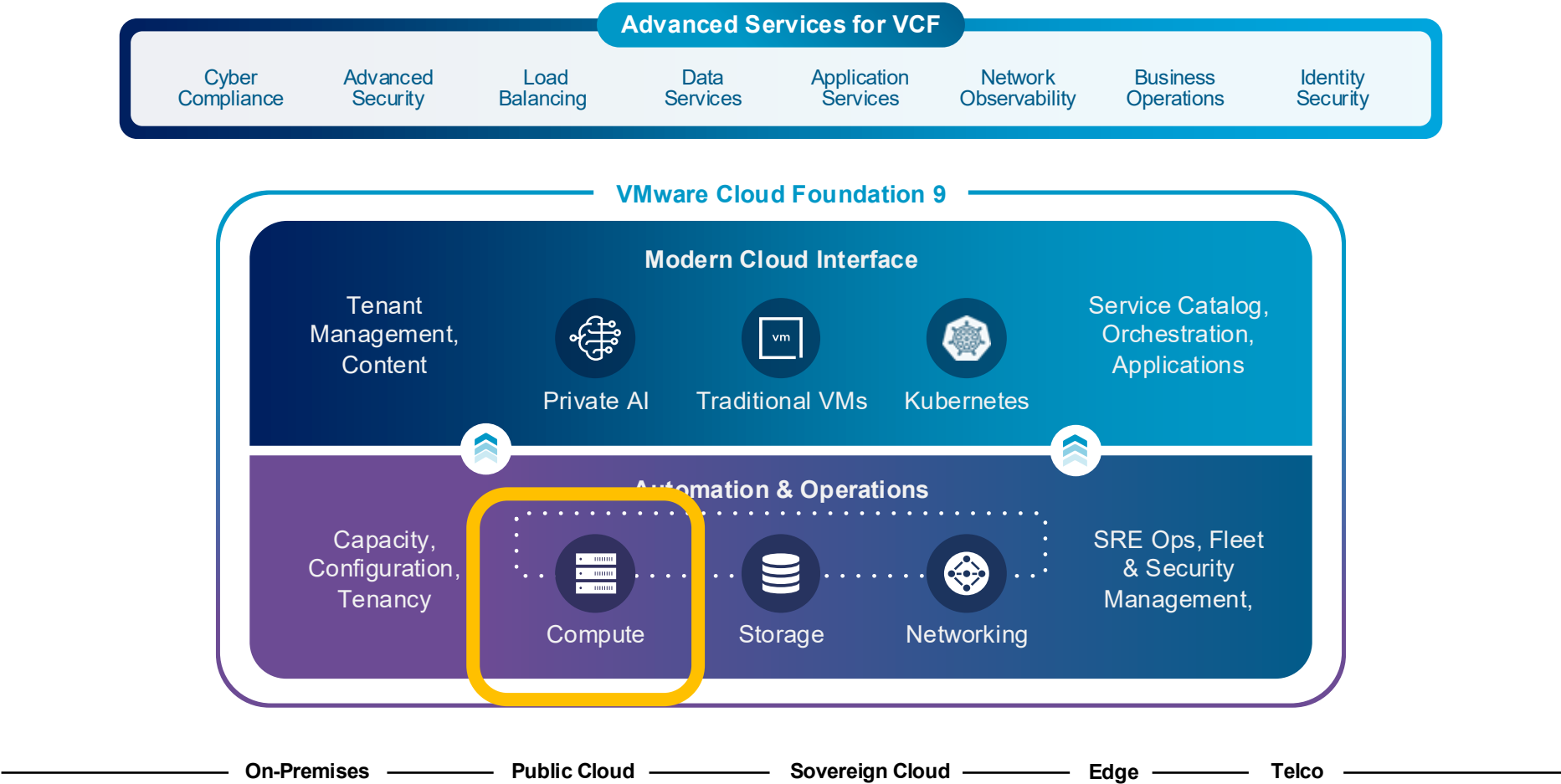


OPEN PLATFORM AND ECOSYSTEM FLEXIBILITY

Choice of hardware and standards-based software for all app use cases

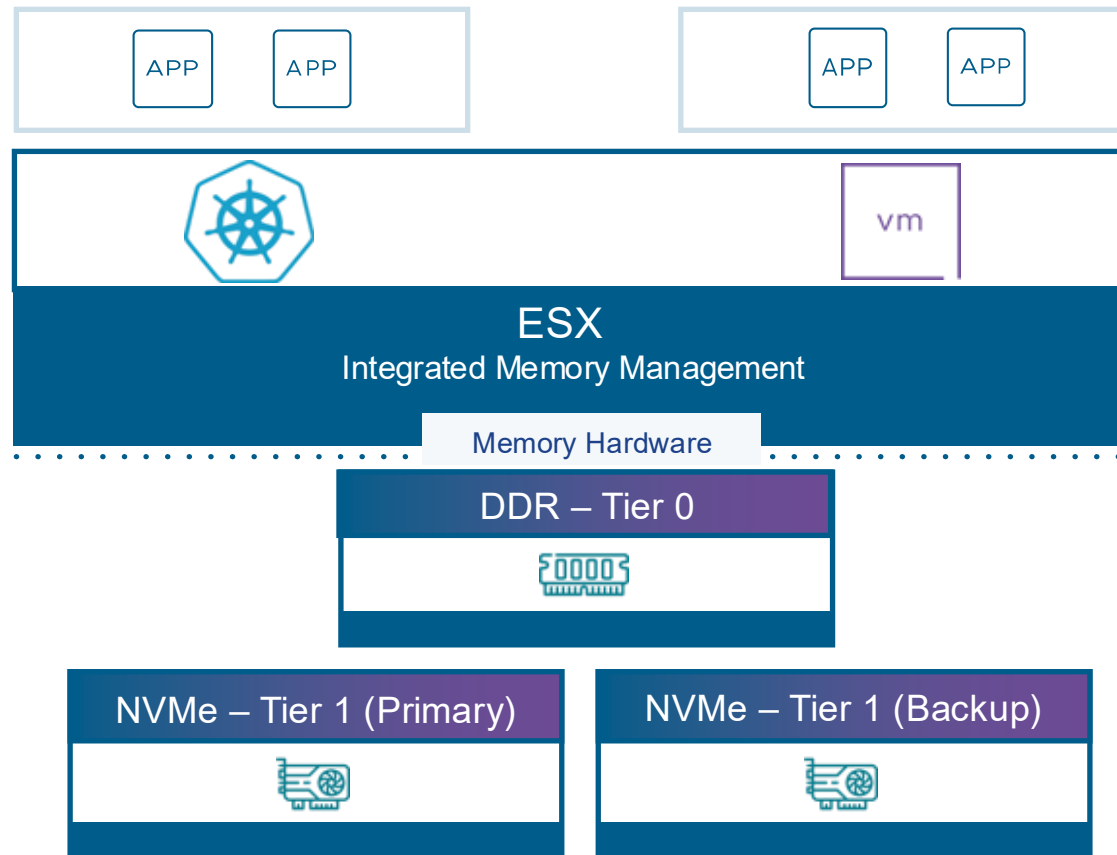


VMware Cloud Foundation 9



Memory Tiering

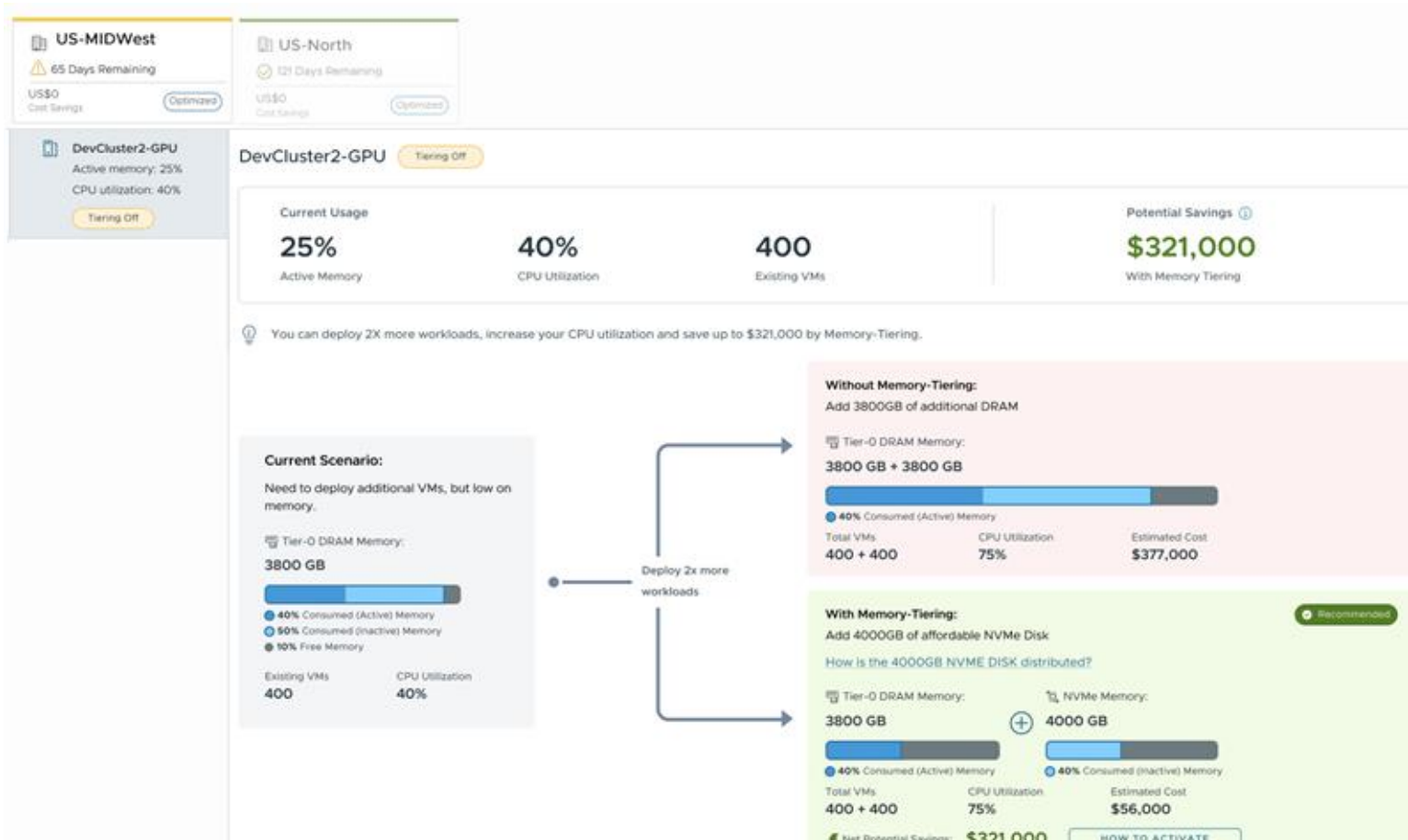
Incl. Software Mirroring



Customer Benefits

- Leverages redundant pair of NVMe devices
- Mirroring built into ESX – no special hardware needed
- Better resiliency in case of NVMe device failures

Improving Performance and Efficiency with NVMe Memory Tiering



Customer Benefits

- Utilize NVMe as second tier memory to lower overall server costs by up to 40%
- Improved availability and resiliency through software-based mirroring of NVMe devices.
- Reduced risk of downtime with proactive visibility into NVMe device health and wear.
- Provide visibility into eligible clusters and cost tradeoffs between standard and tiered memory configurations

Extending Zero-Downtime Patching to TPM-Enabled Hosts

Apply critical security patches without host evacuation or planned downtime



Enabled by default



TPM support

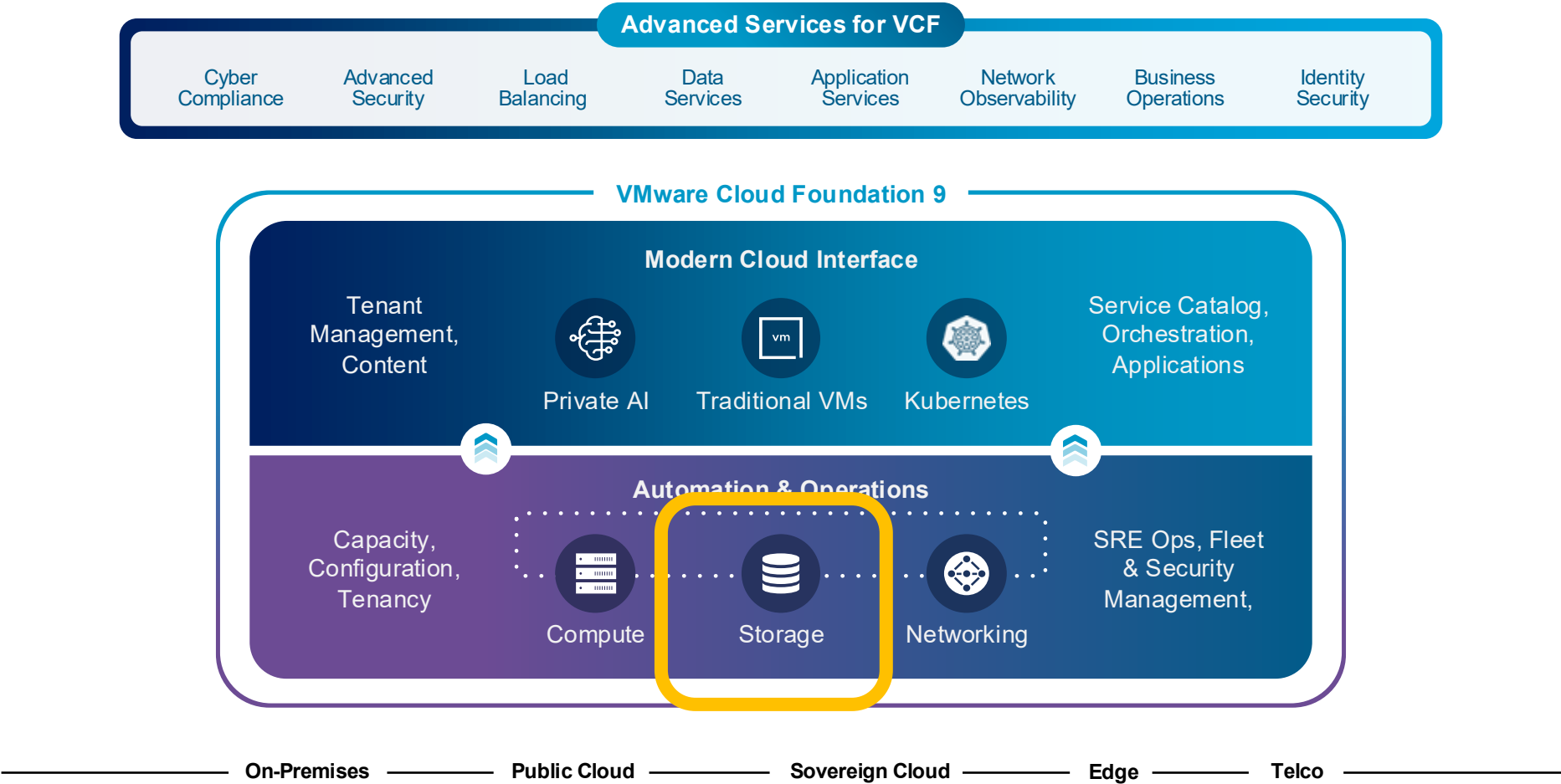


Expanded coverage
up to 80% security
vulnerability

Customer Benefits

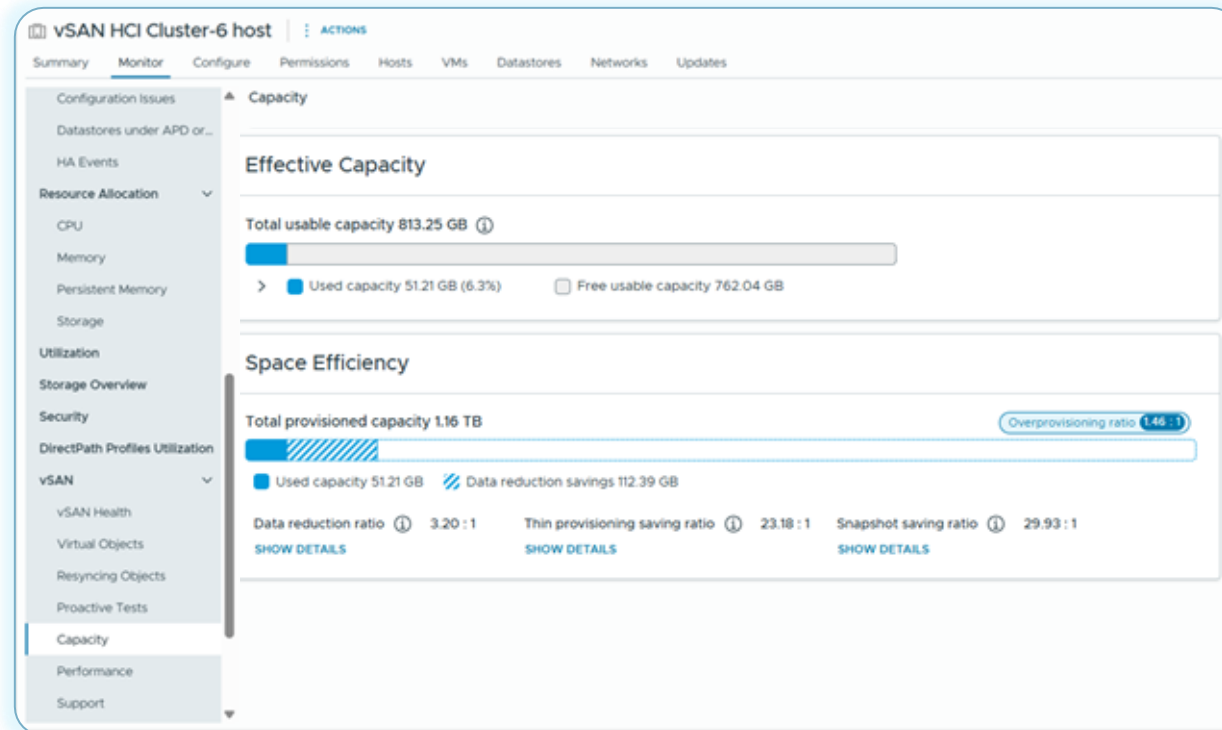
- Apply critical security patches with zero downtime
- Reduce operational burden on IT teams
- Improve security posture and response time

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Enhanced vSAN Data Reduction in VCF 9.1

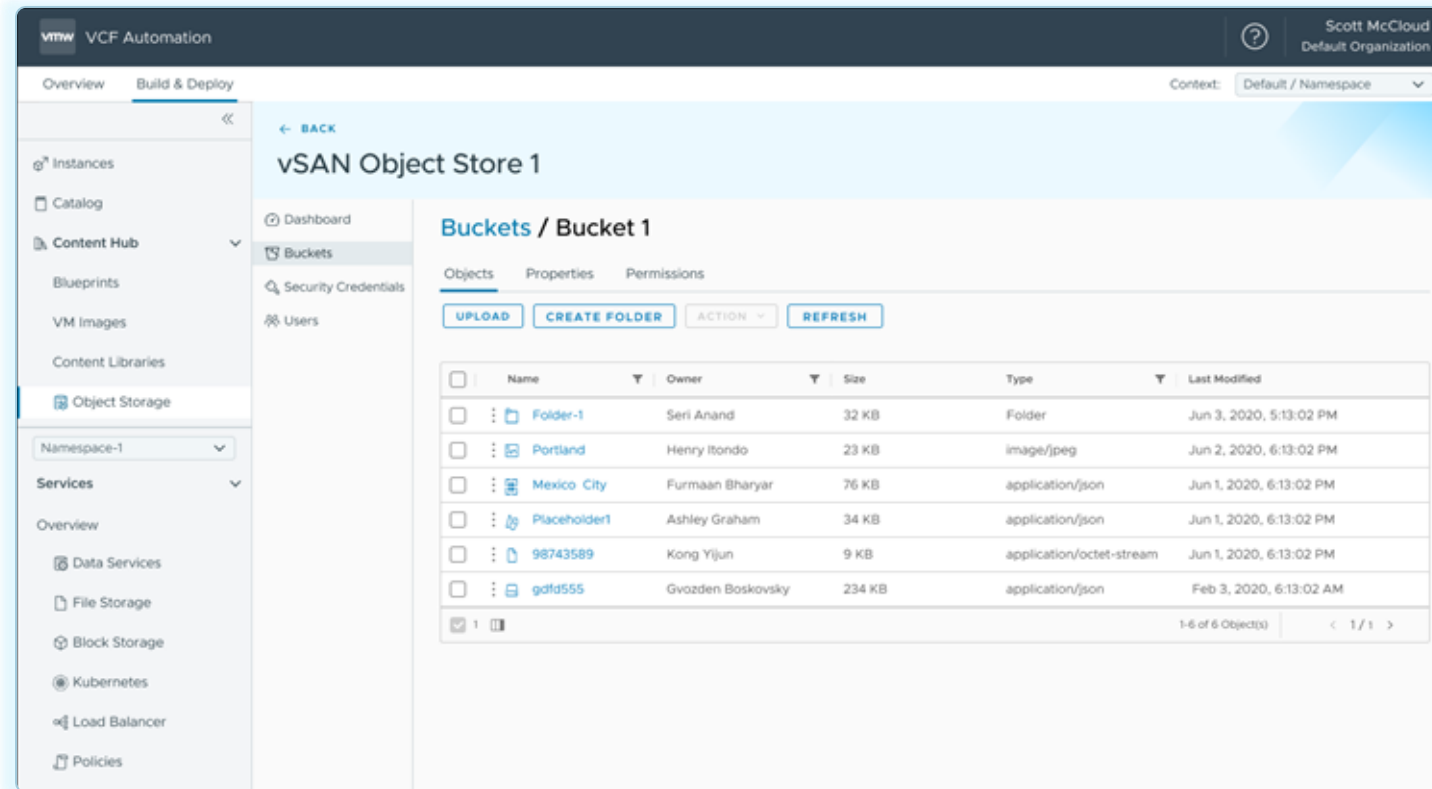
Greater efficiency and security without performance compromise



Customer Benefits

- Security and efficiency without tradeoffs
- Up to 39% lower TCO
- Higher effective capacity across clusters

vSAN native S3 Object Storage as a Native VCF Service¹

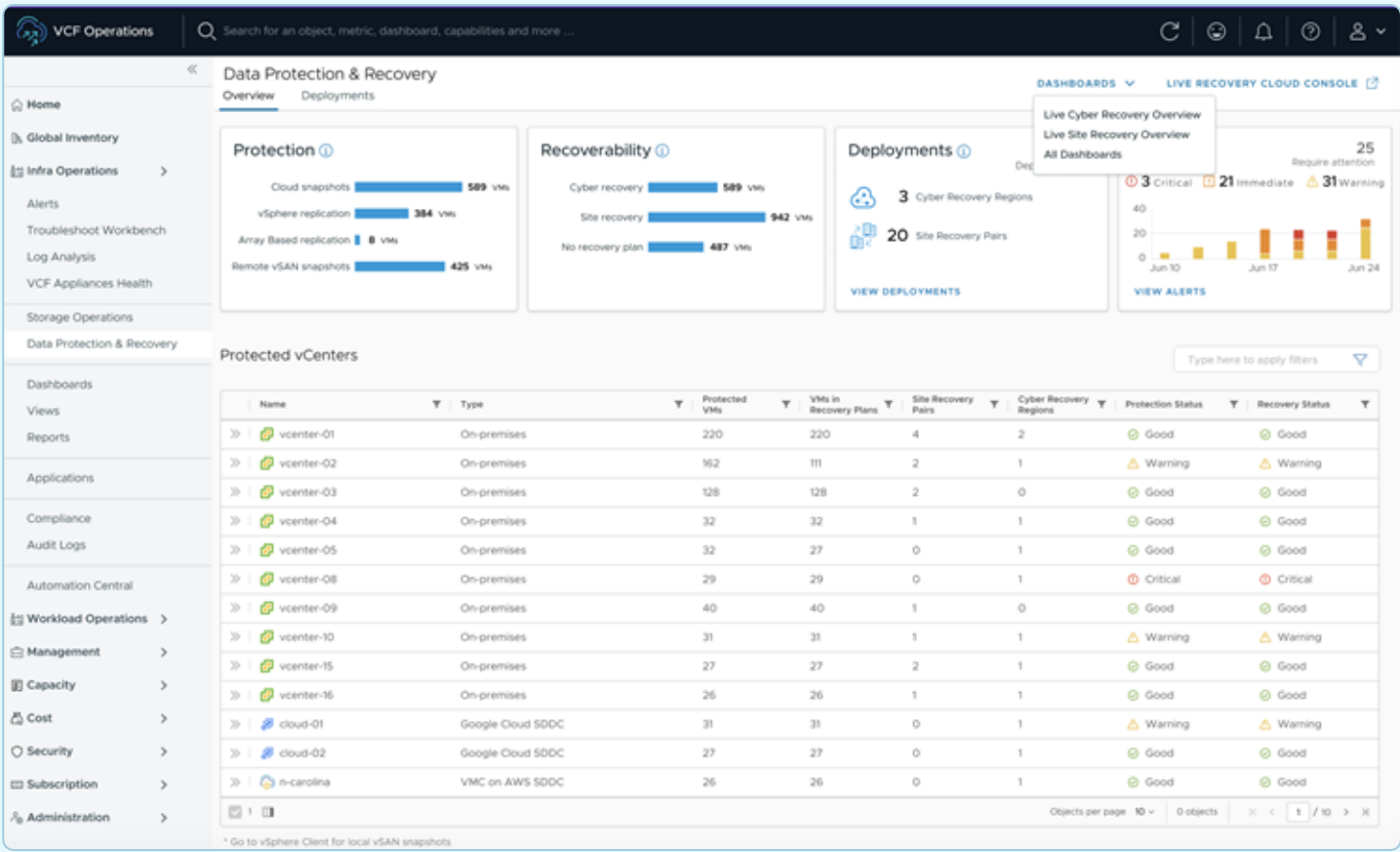


Customer Benefits

- Accelerate developer productivity
- Simplify storage operations
- Lower storage TCO by up to 34%

Extending Cyber Resilience with vSAN for Recovery

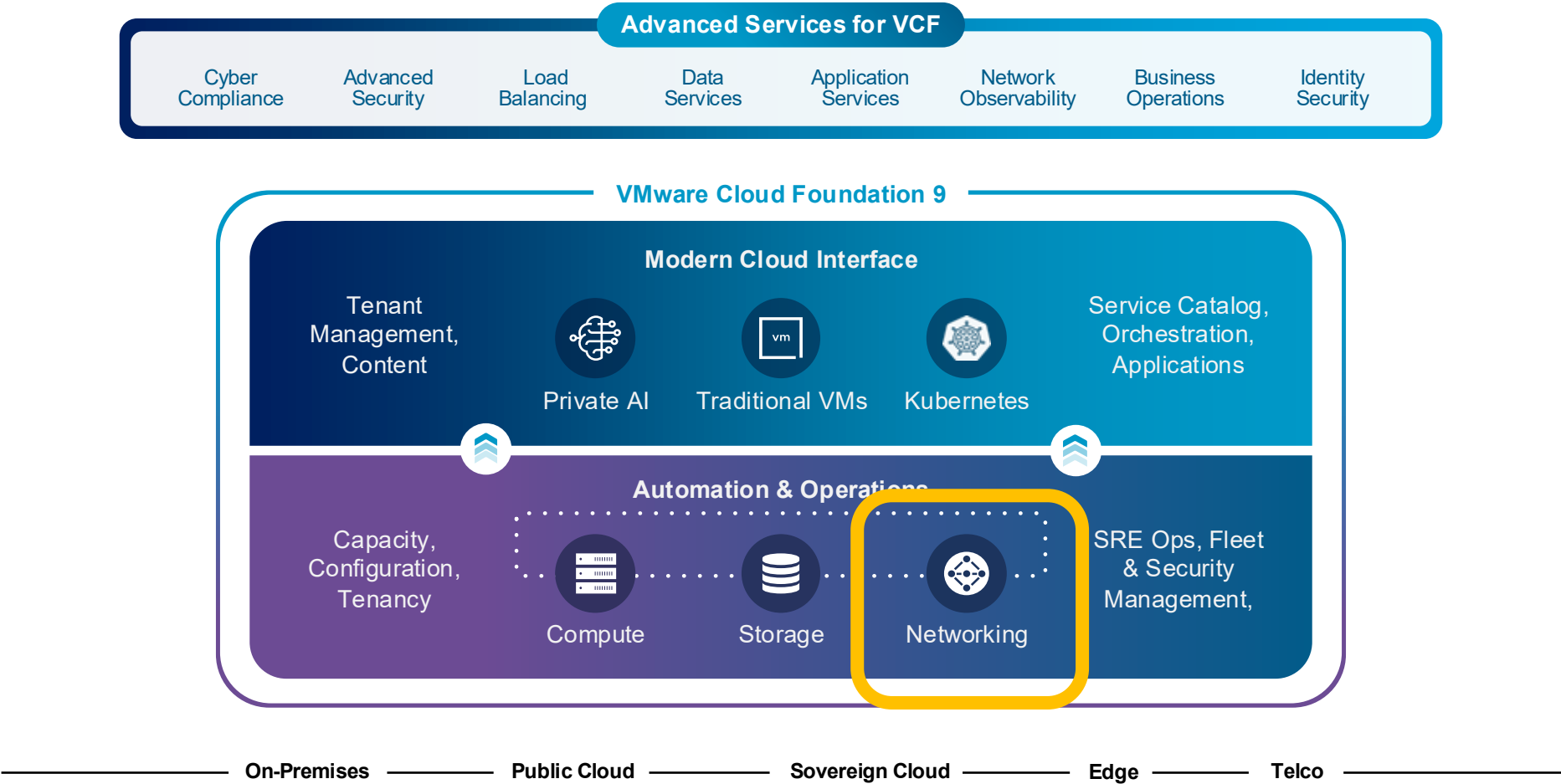
Protect, recover, and retain control of critical workloads without adding complexity



Customer Benefits

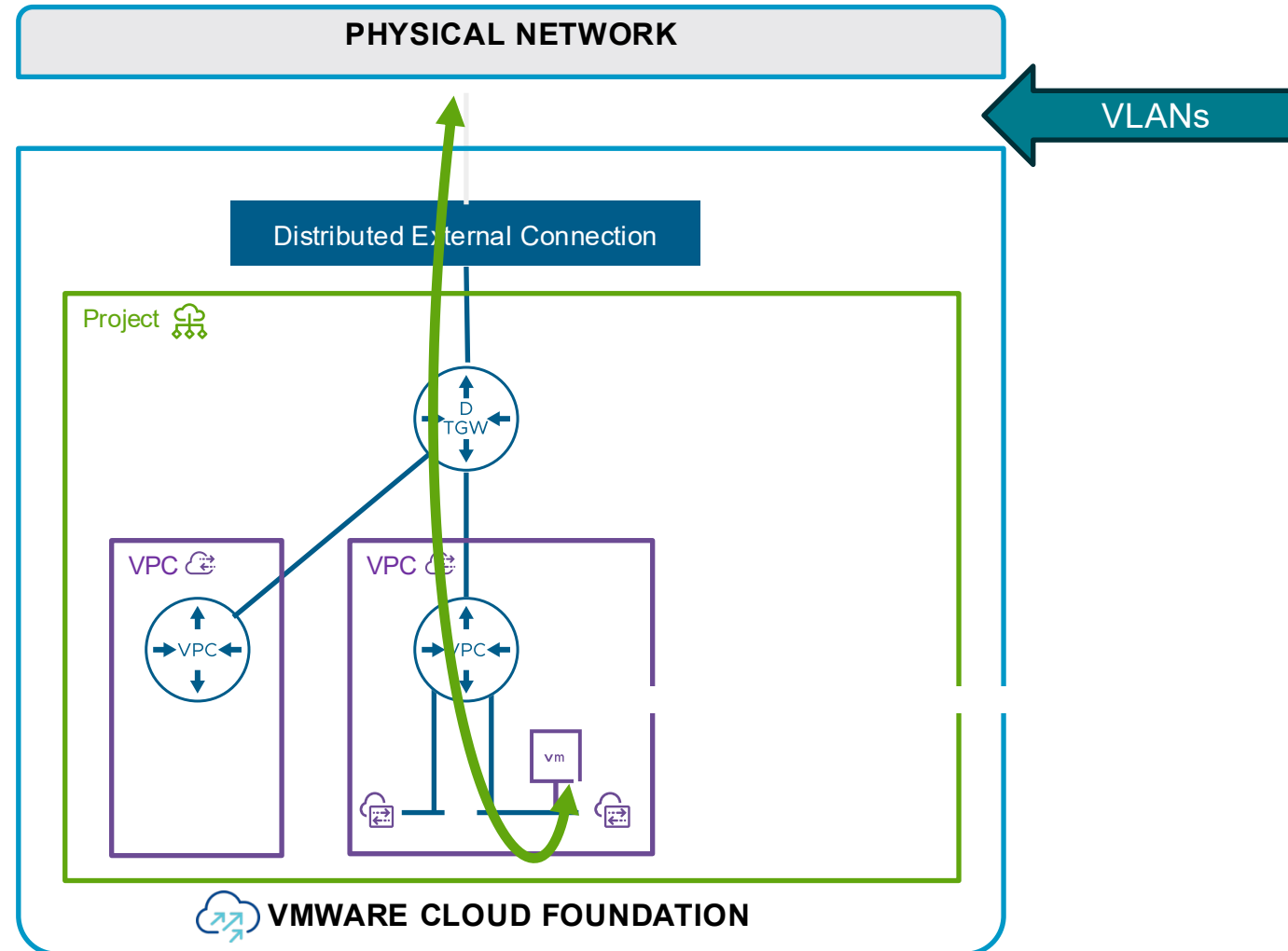
- Protect and extend cyber resilience
- Lower cyber resilience costs
- Retain governance and control

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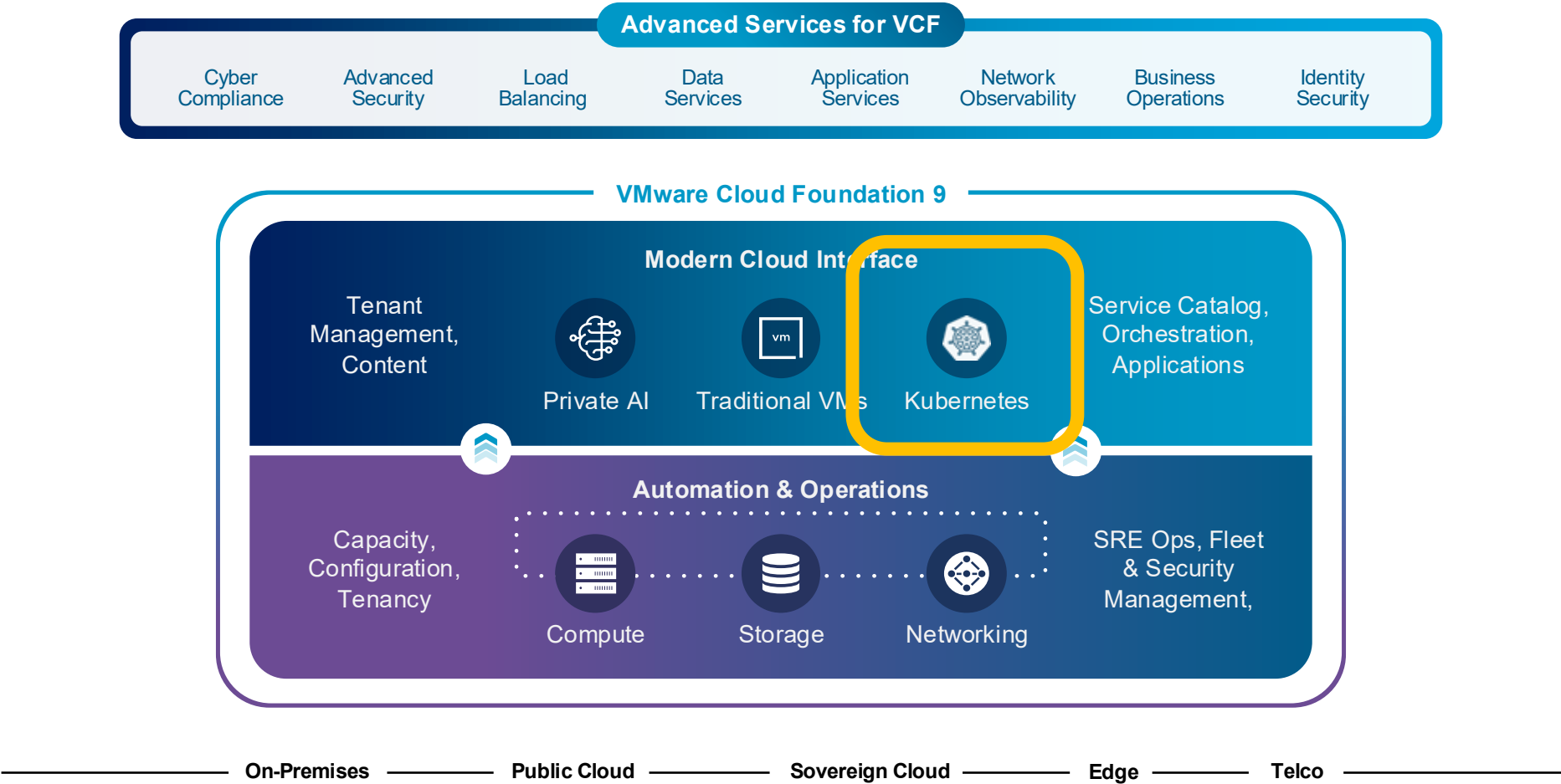


VPCs with external VLAN connectivity

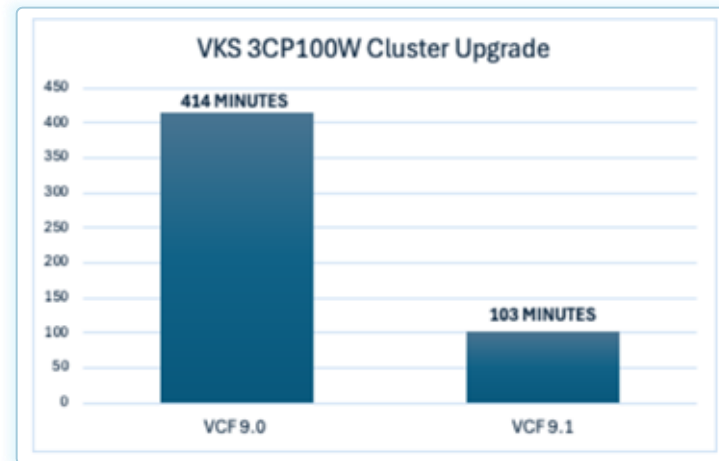
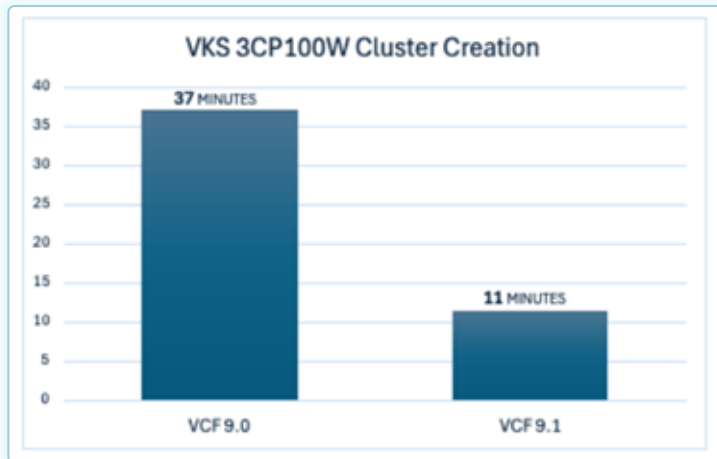
Simplified network integration



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Fast Deploy Kubernetes Clusters and VMs



Customer Benefits

- Significantly faster deployment and upgrading of VKS clusters using linked clone technology.
- Reduced VKS cluster provisioning time by up to 70%
- More efficient resource utilization

Containers as a Service

Run containers instantly with built-in isolation and performance

The screenshot displays the VMware vSphere Automation console interface. The top navigation bar includes 'Overview', 'Manage & Govern', 'Build & Deploy', 'Orchestrate', and 'Administration'. The left sidebar shows a navigation menu with 'Instances', 'Catalog', 'Content Hub', 'Blueprints', 'VM Images', 'Content Libraries', 'Workflows', 'Event Subscriptions', and a dropdown menu currently set to 'dev-rs'. The main content area is titled 'New vSphere Pod' and contains a form for configuring a new pod. The form is divided into sections: 'vSphere Pod Information' (with fields for 'vSphere Pod Name' set to 'test-pod' and 'Zone' set to 'Automatic'), 'Container Image' (with instructions on providing the image URL and pull secret), 'Registry Authentication' (with a checked 'Authentication required' checkbox and radio buttons for 'Select Existing Secret' and 'Create a new secret'), and a table for selecting a secret. The table has columns for 'Registry' and 'Secret Name', with two entries: 'docker.io' with 'docker-secret' and 'harbor.myteam.com' with 'harbor-secret'. The 'Container Image' field at the bottom is set to 'harbor.myteam.com/project/hello-app:1.0'.

VMware VCF Automation

Overview Manage & Govern Build & Deploy Orchestrate Administration

← BACK

New vSphere Pod

1. vSphere Pod Information Enter information about the vSphere Pod

vSphere Pod Name * test-pod

Zone * Automatic
The zone will be automatically selected based on resource requirements.

Container Image
Provide the container image URL from a container registry. Provide or create a container image pull secret if the registry requires authentication. If you have an air-gapped environment, you need to host the container image in a local registry that can be reached from this namespace.

Registry Authentication ☒ Authentication required

Container Image Pull Secret * ☒ Select Existing Secret ☐ Create a new secret

Select secret *

Registry	Secret Name
☐ docker.io	docker-secret
☒ harbor.myteam.com	harbor-secret

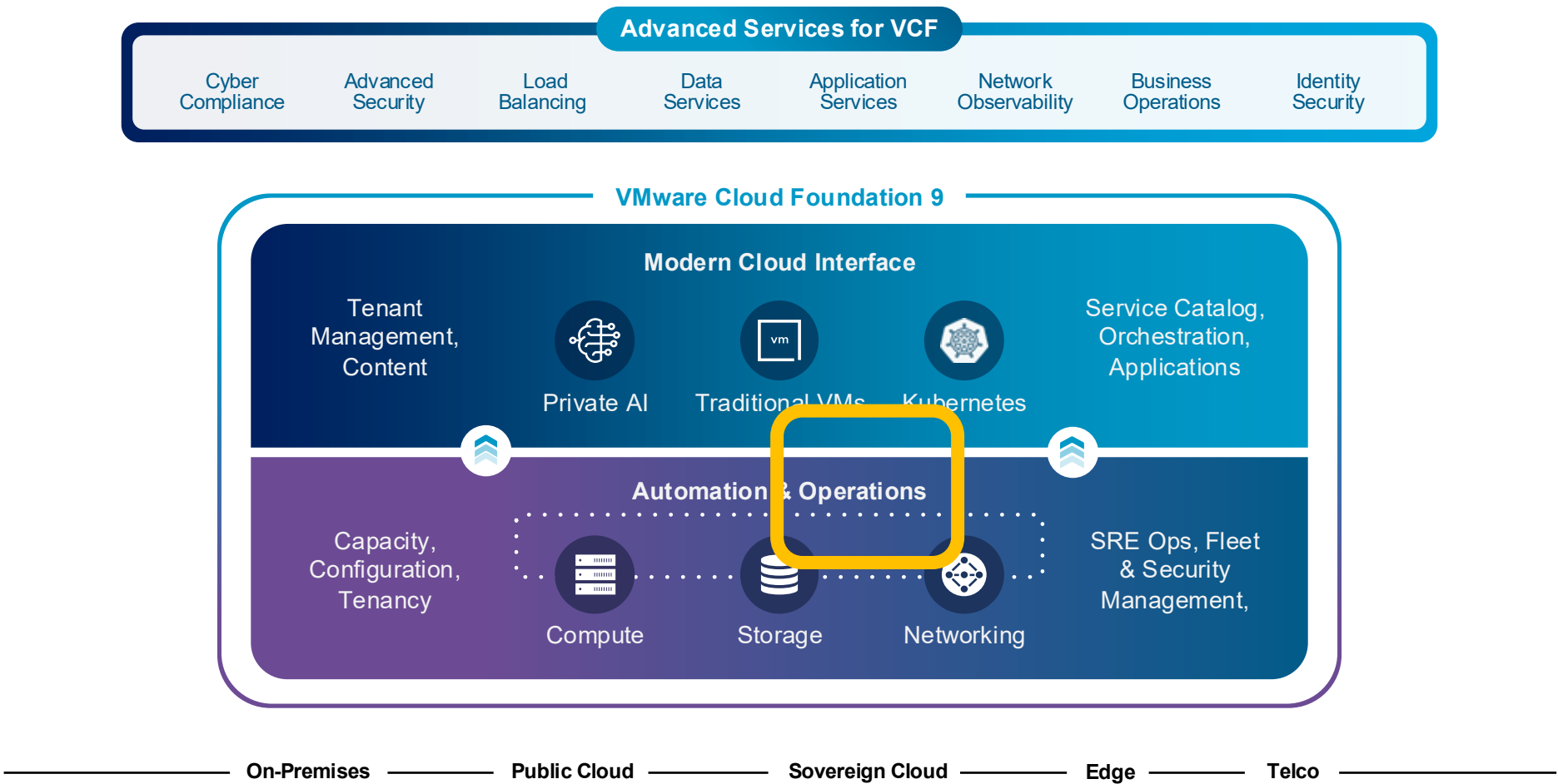
2 objects < 1 / 1 >

Container Image * harbor.myteam.com/project/hello-app:1.0
Provide the project, image name and version, e.g. project/hello-app:1.0

Customer Benefits

- Simplified Native Container Service
- Optimized Infrastructure and Efficiency
- Clear Workload Runtime Selection

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Functional Pillars – Operate, Manage, Protect, Build

vmw

VMware Cloud Foundation Operations

Operate

Manage

Protect

Build

Search

Home

Overview

Inventory

Alerts

Dashboards

Organizations

Troubleshooting Workbench

Metrics Search

Logs

Flows

Home

VCF Overview

Launchpad

All VMware Clouds
Accounts: 1

VMware Cloud Foundation
Accounts: 1 | Domains: 1

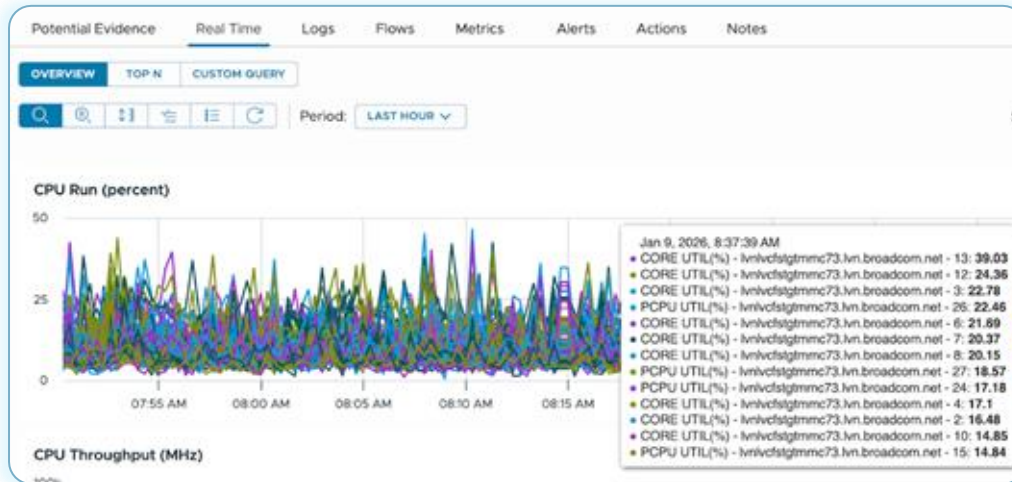
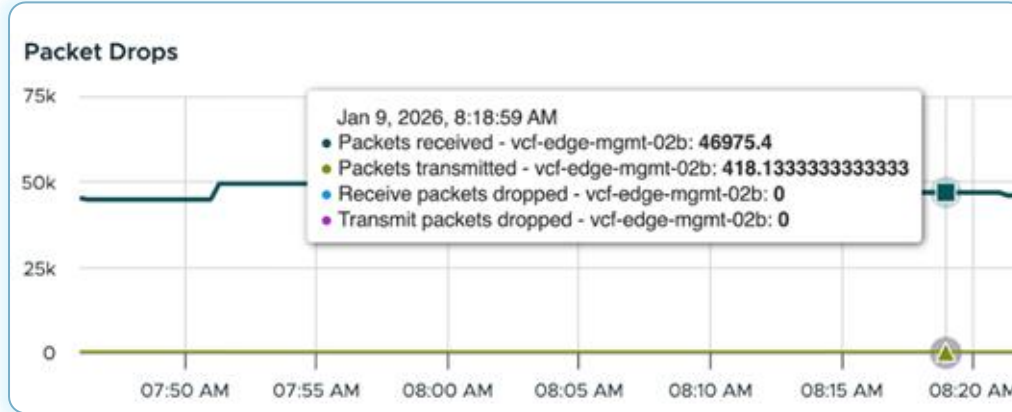
vCenter
No accounts

VMware Cloud Foundation accounts require defined locations. Go to [Physical Data Centers](#) to configure locations for your accounts.



Real-Time VCF Observability

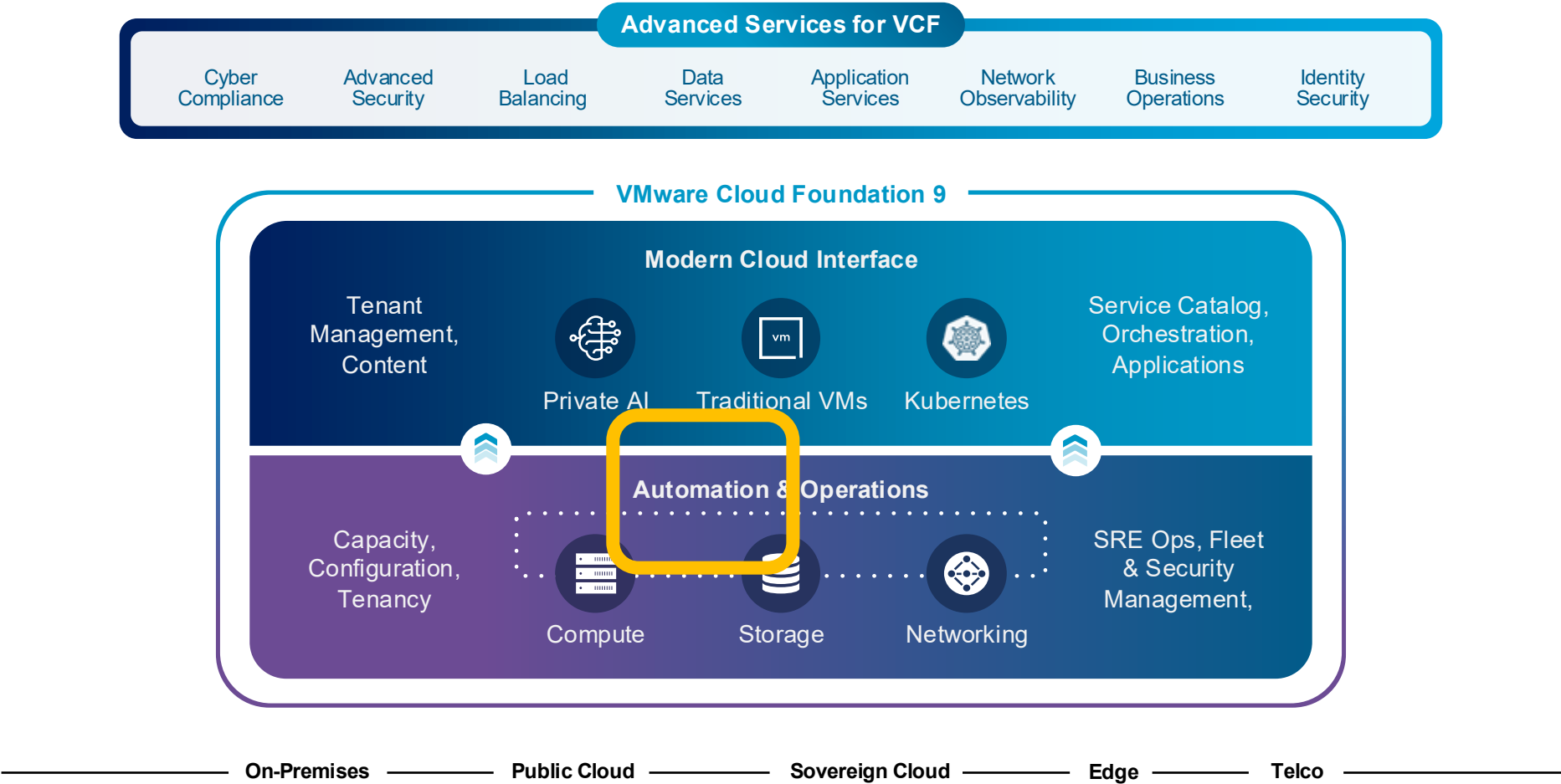
Accelerate Troubleshooting



Customer Benefits

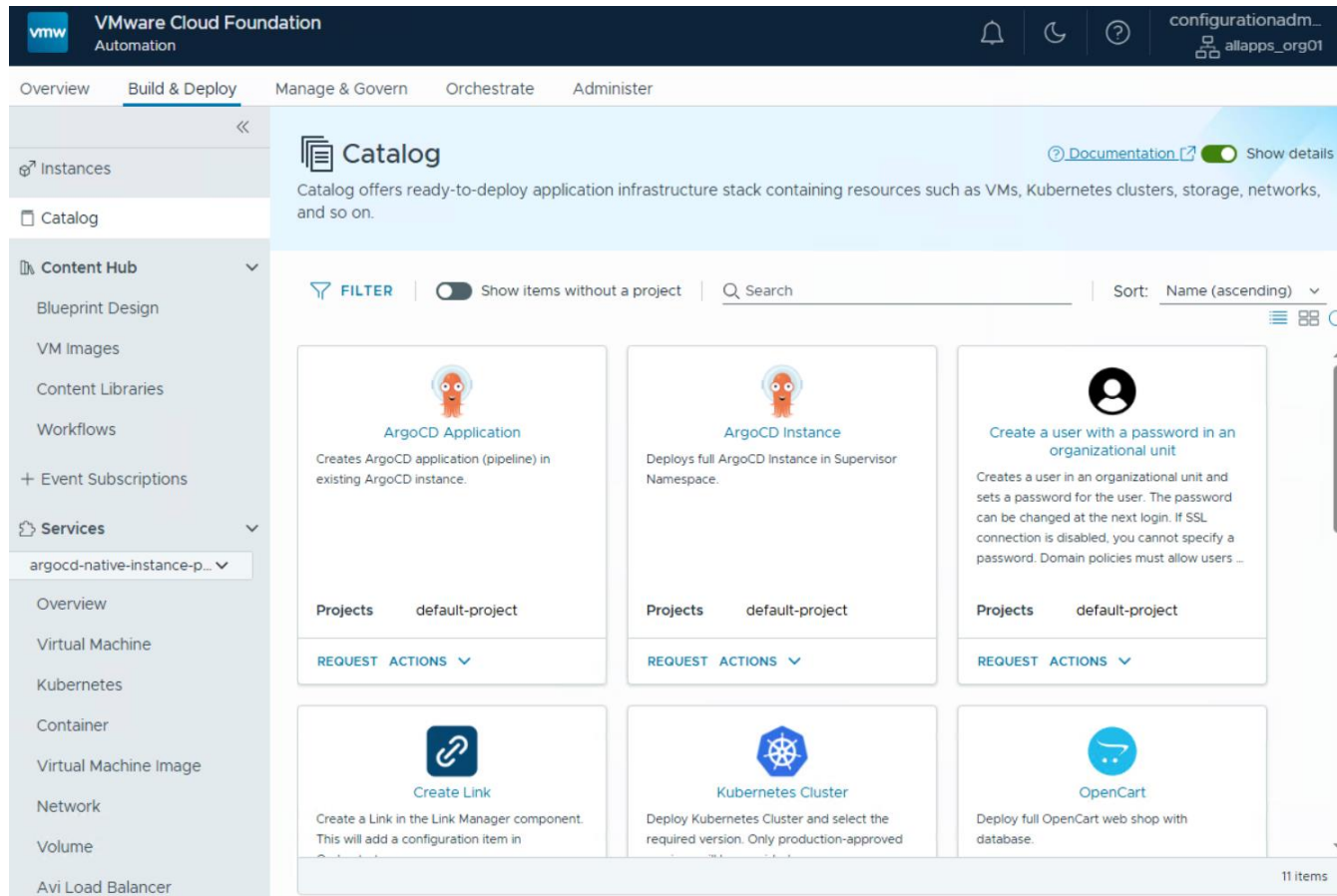
- Faster detection and resolution of issues
- Reduced mean time to resolution (MTTR)
- Improved operational confidence

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Catalog

Self-Service Experience



Customer Benefits

- Self-service IaaS for developers, app owners, etc.
- Standard deployments with blueprints
- Tenant autonomy through role-based access
- Central IT governance

Lab/Class environments with AppStacks

Capture a running namespace as an application blueprint

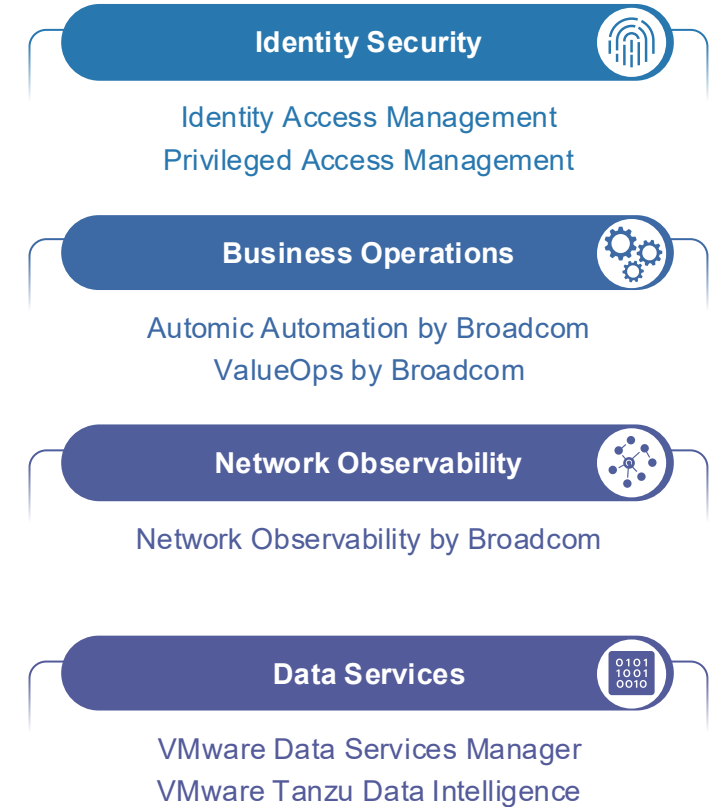
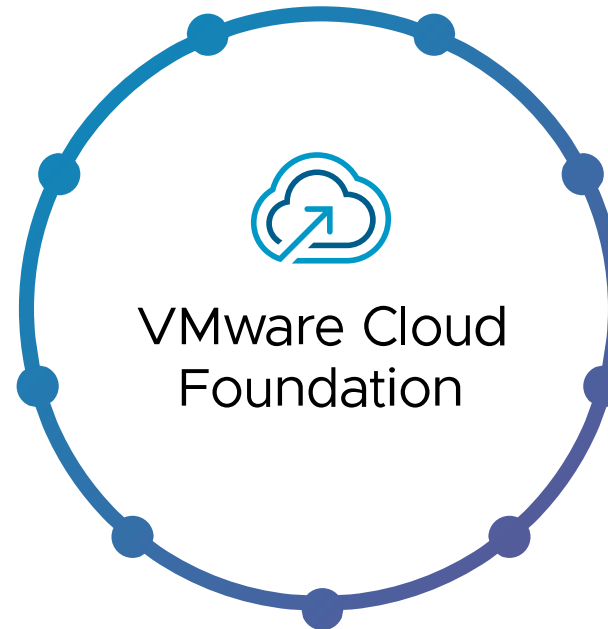
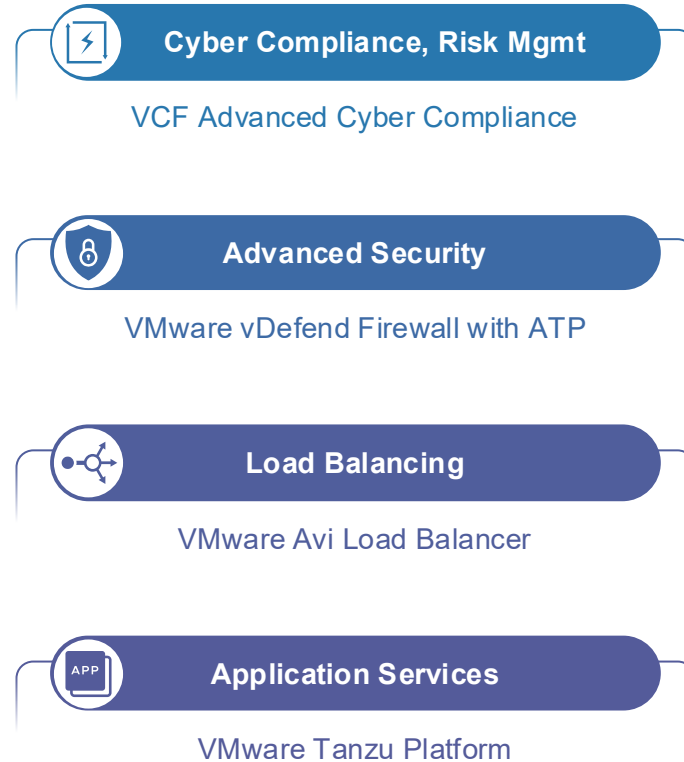
The screenshot shows the VMware Cloud Foundation Automation console. The top navigation bar includes 'Overview', 'Manage & Govern', and 'Build & Deploy'. The left sidebar lists various services like 'Data Services', 'Kubernetes', 'Load Balancer', etc. The main content area is titled 'Capture "Namespace Name"' and shows a 'Blueprint Details' form. The form includes fields for 'Blueprint Name' (App-1), 'Description' (a text area with a placeholder), 'Content Library' (Content Lib 1), and 'Capture Customization' (radio buttons for 'Capture as an identical copy' and 'Capture with customizations'). There are also checkboxes for 'Compute and Storage' and 'Guest OS Settings'. At the bottom, there is a 'CONFIGURE' button and a table listing VMs and their configurations.

VM Name	Configuration
VirtualM-1	Not configured
VirtualM-2	Not configured
VirtualM-3	Not configured

Customer Benefits

- vSphere Namespaces can be captured as consistent blueprints including the infrastructure. (Disks, Networks,..)
- Blueprints can be deployed or published to a catalog and redeployed to same or different projects.
- Supports Labs-as-a-Service use case

A Robust Catalog of Advanced Services





Thank You