



# VMware Cloud on AWS

## "The Real Hybrid Cloud"

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# Agenda

1. Brief Intro „Hybrid Cloud“
2. VMware Cloud on AWS
3. Use-Cases

80%

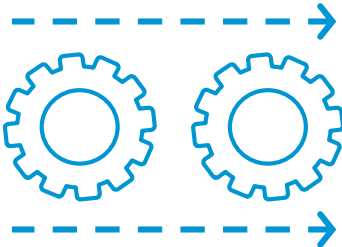
of organizations have a

HYBRID  
CLOUD  
STRATEGY

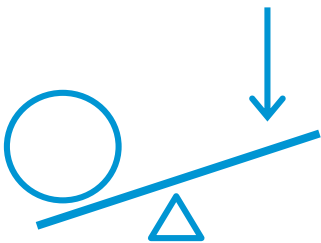
“Enterprise Adoption Driving Strong Growth of Public Cloud Infrastructure as a Service, According to IDC”

# CLOUD BUILDING CHALLENGES

Operational  
Consistency



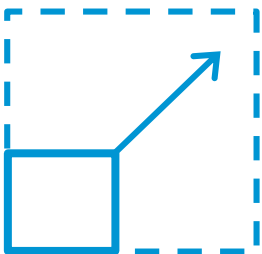
Existing  
Skillsets & Tools



Control,  
Manage, Secure

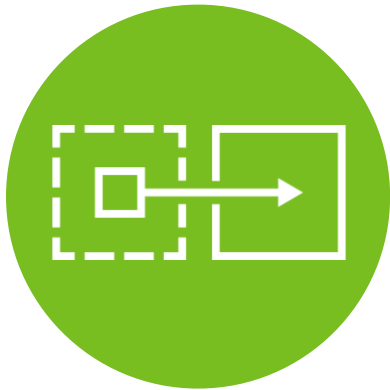


Enterprise-Class  
App SLA



# VMware Cloud on AWS

Delivering proven enterprise capabilities on the world's most popular public cloud



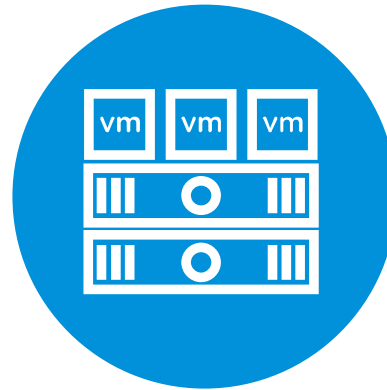
## Seamless migration

Fast, cost effective  
and low risk  
migration to the  
cloud



## As-a-Service

Rich VMware  
SDDC delivered  
as a cloud service  
on AWS



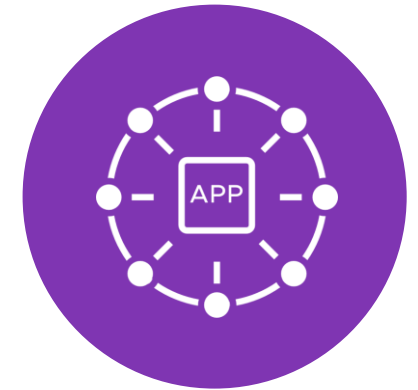
## Consistent

Consistency and  
familiarity of  
VMware  
technologies



## Portable

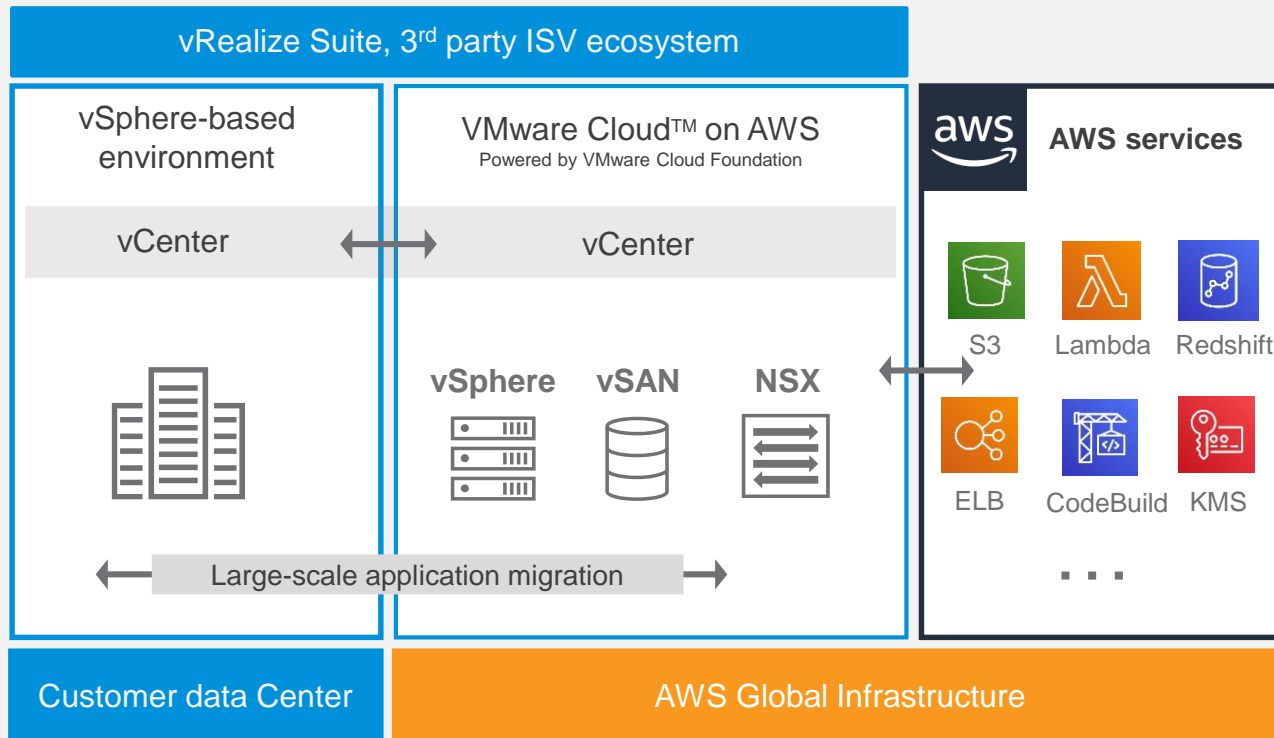
Easy workload  
portability  
and hybrid  
capabilities



## Modern apps

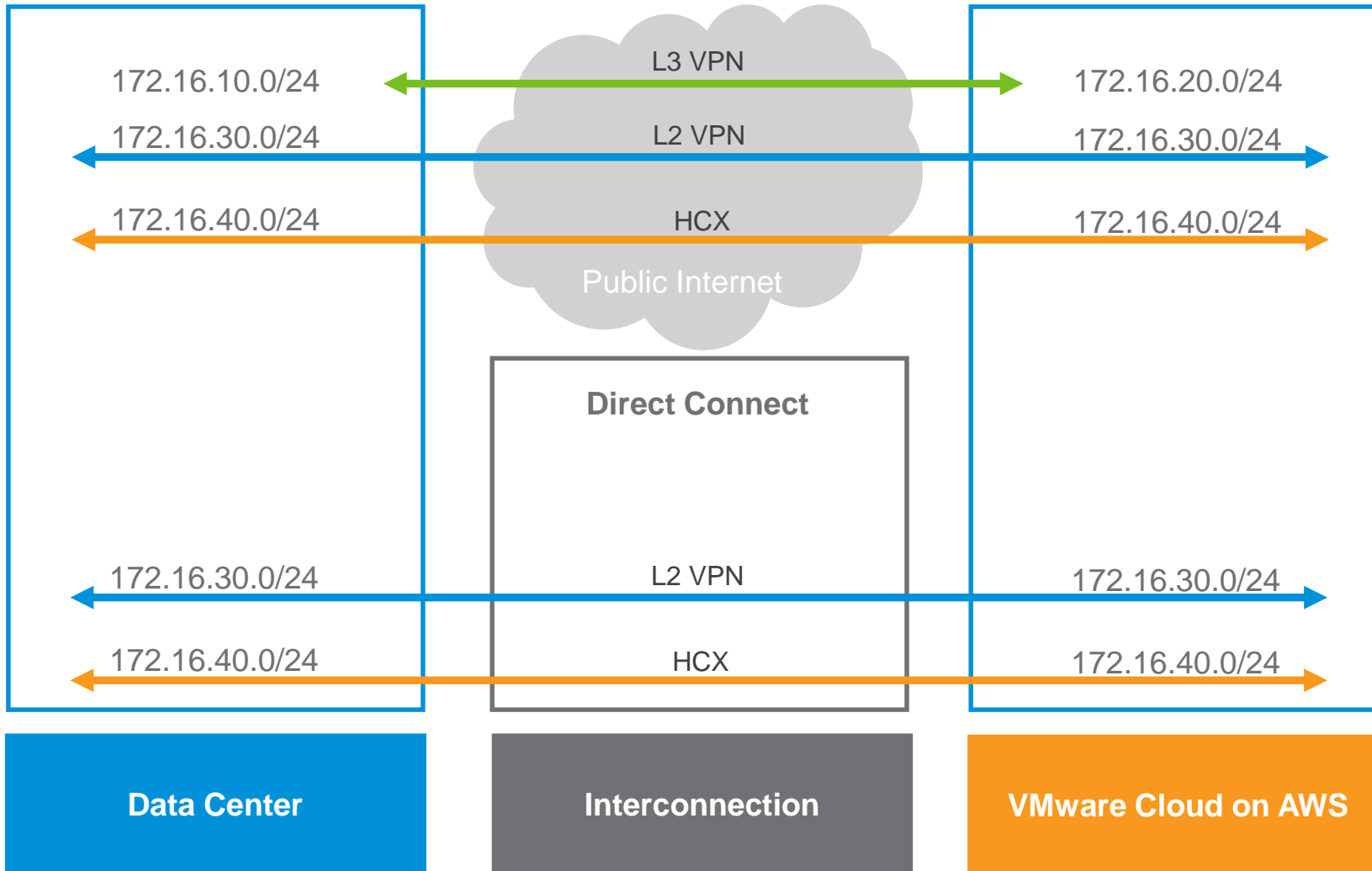
Kubernetes,  
containers, virtual  
machines support  
and access to AWS  
services

# VMware Cloud on AWS: Jointly engineered cloud service



- VMware SDDC running on AWS **bare metal**
- Delivered, operated, supported by VMware
- On-demand capacity and flexible consumption
- Full operational consistency with on-premises SDDC
- Seamless large-scale workload portability and hybrid operations
- Global AWS footprint, reach, availability
- Direct access to native AWS services

# VMware Cloud on AWS



## ↔ L3 VPN

Traditional IPsec VPN Tunnel.

Compatible with any routers capable of terminating IPsec Tunnels.

Interconnect two distinct network ranges.

## ↔ L2 VPN

Stretch networks between private and public cloud.

Requires installation of free NSX Standalone Edge Client on-prem (does not require NSX licensing on-prem).

Easy to configure.

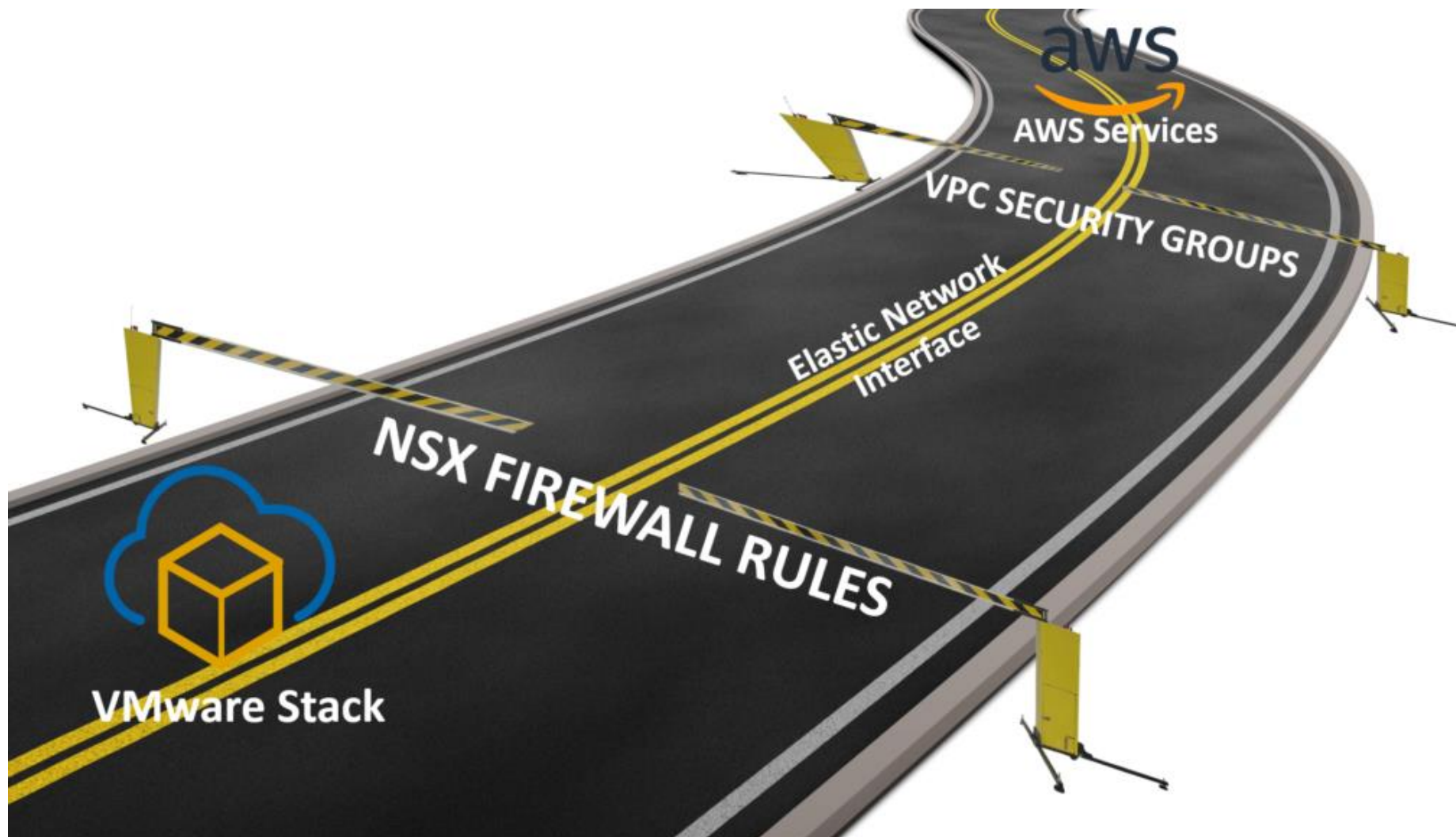
## ↔ HCX

L2VPN (or L3VPN if no requirement to stretch network), combined with WAN Optimization engine and vSphere compatibility back to vSphere 5.0.

Best option for bulk migration.

Highly Secure (IPsec with AES 256 Suite-B encryption)

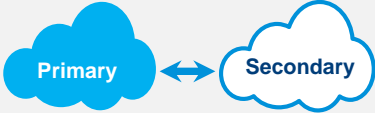

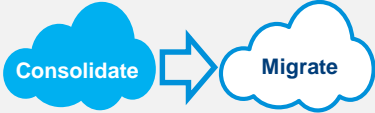





# How to connect VMware cloud on AWS to Native AWS Services?



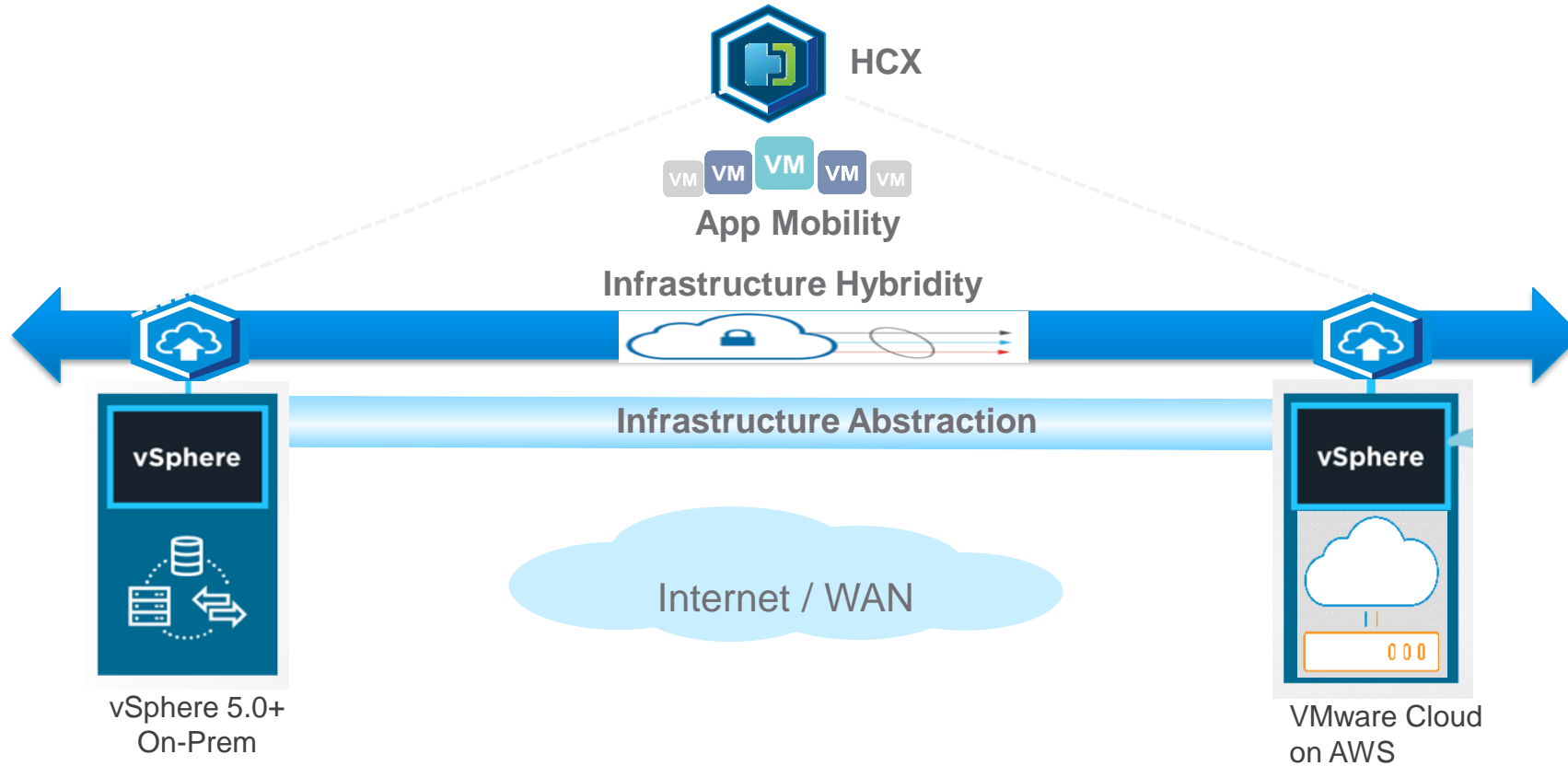


# Use-cases

## Aligning intended use to long term cloud strategy

			
<p>Disaster recovery</p>	<p>Data center extension</p>	<p>Cloud migrations</p>	<p>Next-generation apps</p>
<p>New DR</p>	<p>Footprint expansion / On-demand capacity</p>	<p>Application specific <i>BCA   Virtual Desktops</i></p>	<p>Application modernization</p>
<p>Replace existing DR</p>	<p>Virtual Desktops / Published Apps</p>	<p>Data center wide</p>	<p>New application build-out</p>
<p>Complement existing DR</p>	<p>Test/Dev</p>	<p>Infrastructure refresh</p>	<p>Hybrid applications</p>
			

# VMware Hybrid Cloud Extension Service



## Accelerate cloud adoption

App Mobility across vSphere 5.0+ version on-premises to VMware Cloud on AWS.

## Hybrid Cloud Extension

Multisite, WAN Optimized, Secured, Load Balanced, Traffic Engineered Network Extension

## Transform With *Bulk Migration*

Zero-downtime live migrations and scheduled large-scale warm migrations.

## USAGE SCENARIOS

Migrations and Transformation

Hardware/Software Refresh/upgrades

Consolidate smaller DCs to cloud

Hybrid Applications

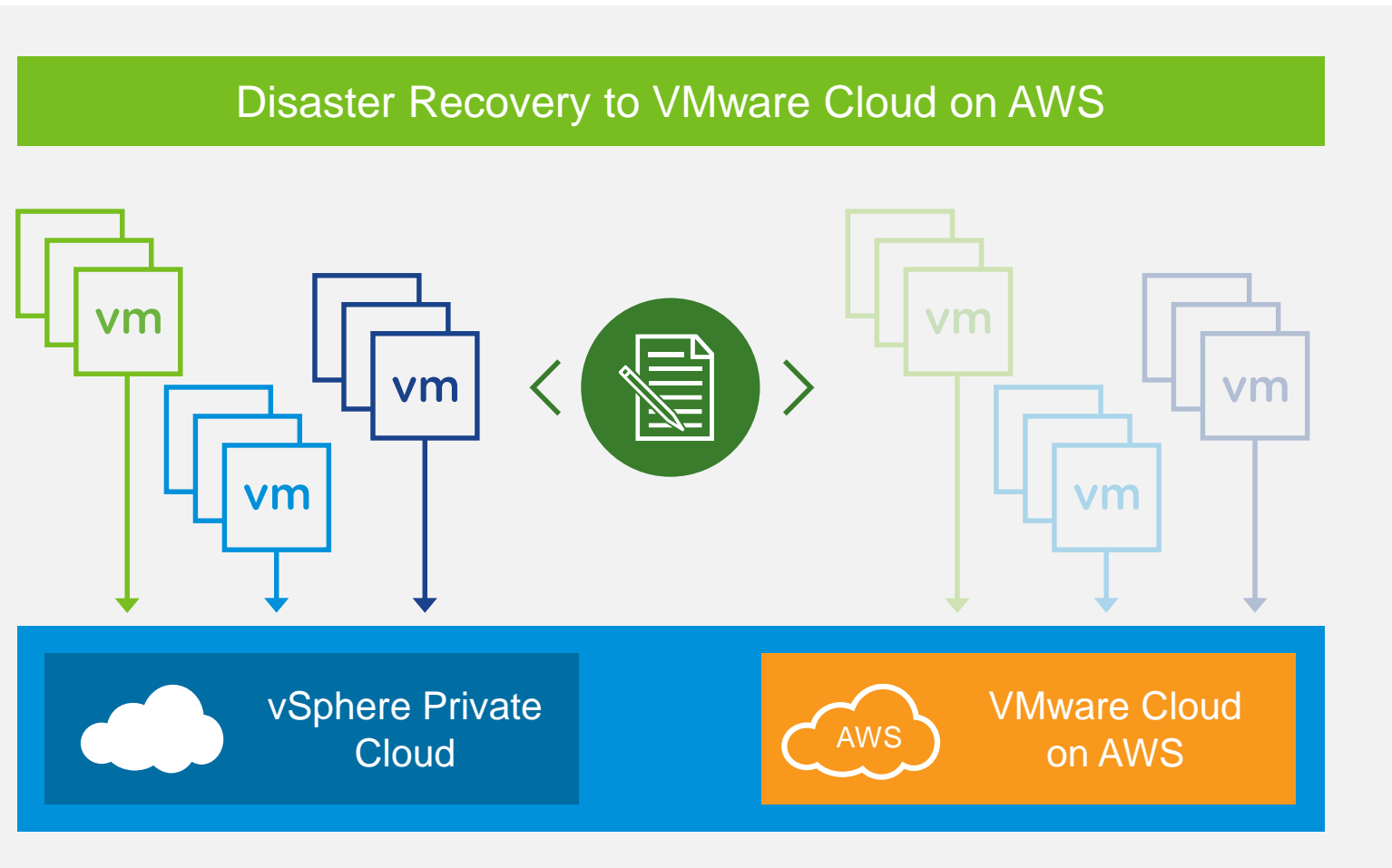
Legacy Equipment Replacement Avoidance

Rapid Migration

Burst Capacity

# VMware Site Recovery—Built for VMware Cloud on AWS

Built for VMware Cloud on AWS



Delivered as an add-on service with granular, on-demand pricing

Built on VMware's proven disaster recovery solutions

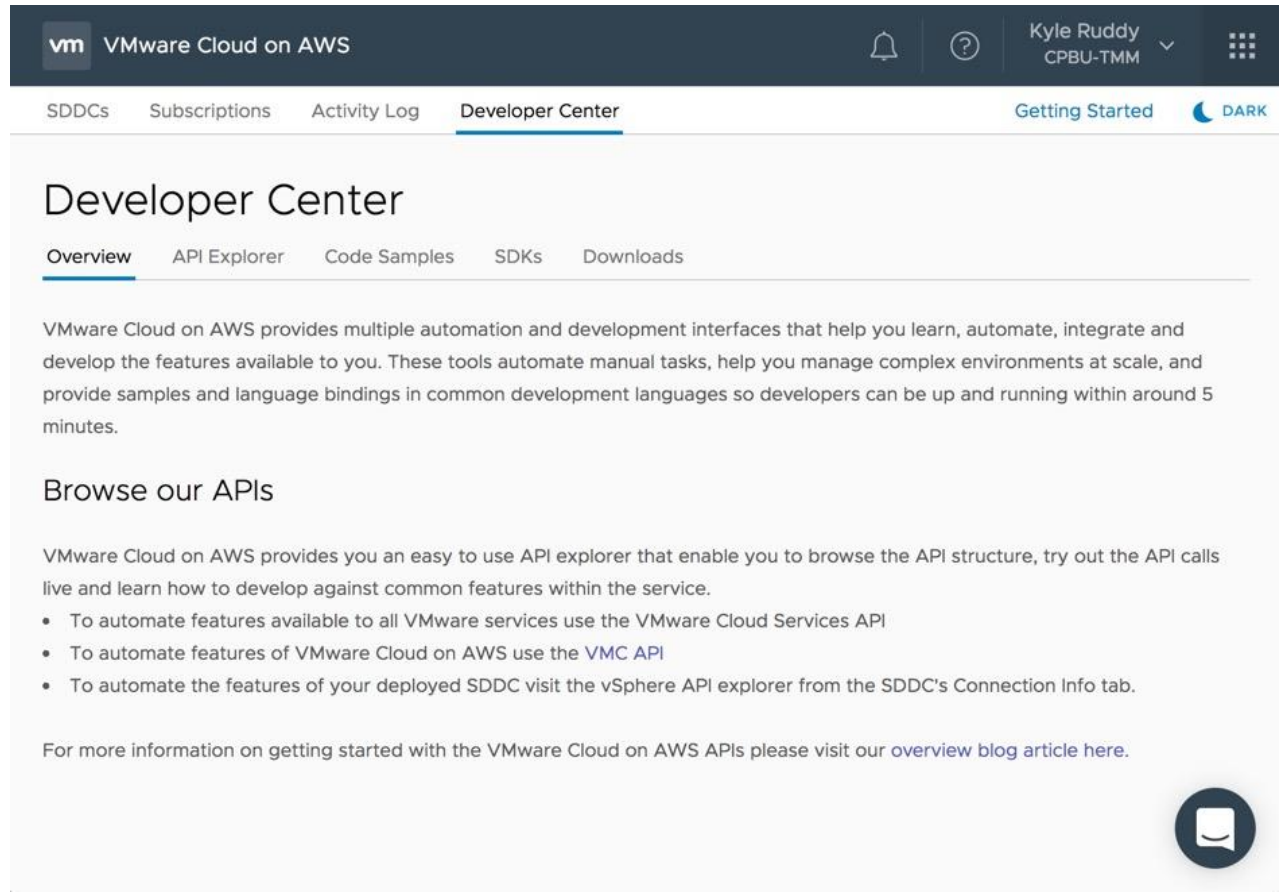
Automated DR runbook with application-centric runbooks

Bidirectional protection between cloud and on-prem as well as between AWS availability zones

Integrated deeply with the VMware Cloud on AWS services

# VMware Cloud on AWS Developer Center Overview

- Available directly from the Cloud Console



The screenshot shows the VMware Cloud on AWS Developer Center interface. At the top, there is a navigation bar with the VMware logo, the text 'VMware Cloud on AWS', a notification bell, a help icon, the user name 'Kyle Ruddy CPBU-TMM', and a dark mode toggle. Below the navigation bar, there are tabs for 'SDDCs', 'Subscriptions', 'Activity Log', and 'Developer Center'. The 'Developer Center' tab is active, and there is a 'Getting Started' link and a 'DARK' mode toggle. The main content area has a heading 'Developer Center' and sub-tabs for 'Overview', 'API Explorer', 'Code Samples', 'SDKs', and 'Downloads'. The 'Overview' tab is selected. The text under 'Overview' states: 'VMware Cloud on AWS provides multiple automation and development interfaces that help you learn, automate, integrate and develop the features available to you. These tools automate manual tasks, help you manage complex environments at scale, and provide samples and language bindings in common development languages so developers can be up and running within around 5 minutes.' Below this is a section titled 'Browse our APIs' with a sub-heading 'VMware Cloud on AWS provides you an easy to use API explorer that enable you to browse the API structure, try out the API calls live and learn how to develop against common features within the service.' This is followed by a bulleted list: '• To automate features available to all VMware services use the VMware Cloud Services API', '• To automate features of VMware Cloud on AWS use the VMC API', and '• To automate the features of your deployed SDDC visit the vSphere API explorer from the SDDC's Connection Info tab.' At the bottom, there is a link: 'For more information on getting started with the VMware Cloud on AWS APIs please visit our [overview blog article here](#).' A chat icon is visible in the bottom right corner of the interface.

## Easily Access:

- API Explorer
- Community Code Samples
- SDKs
- Downloads

## API Explorer

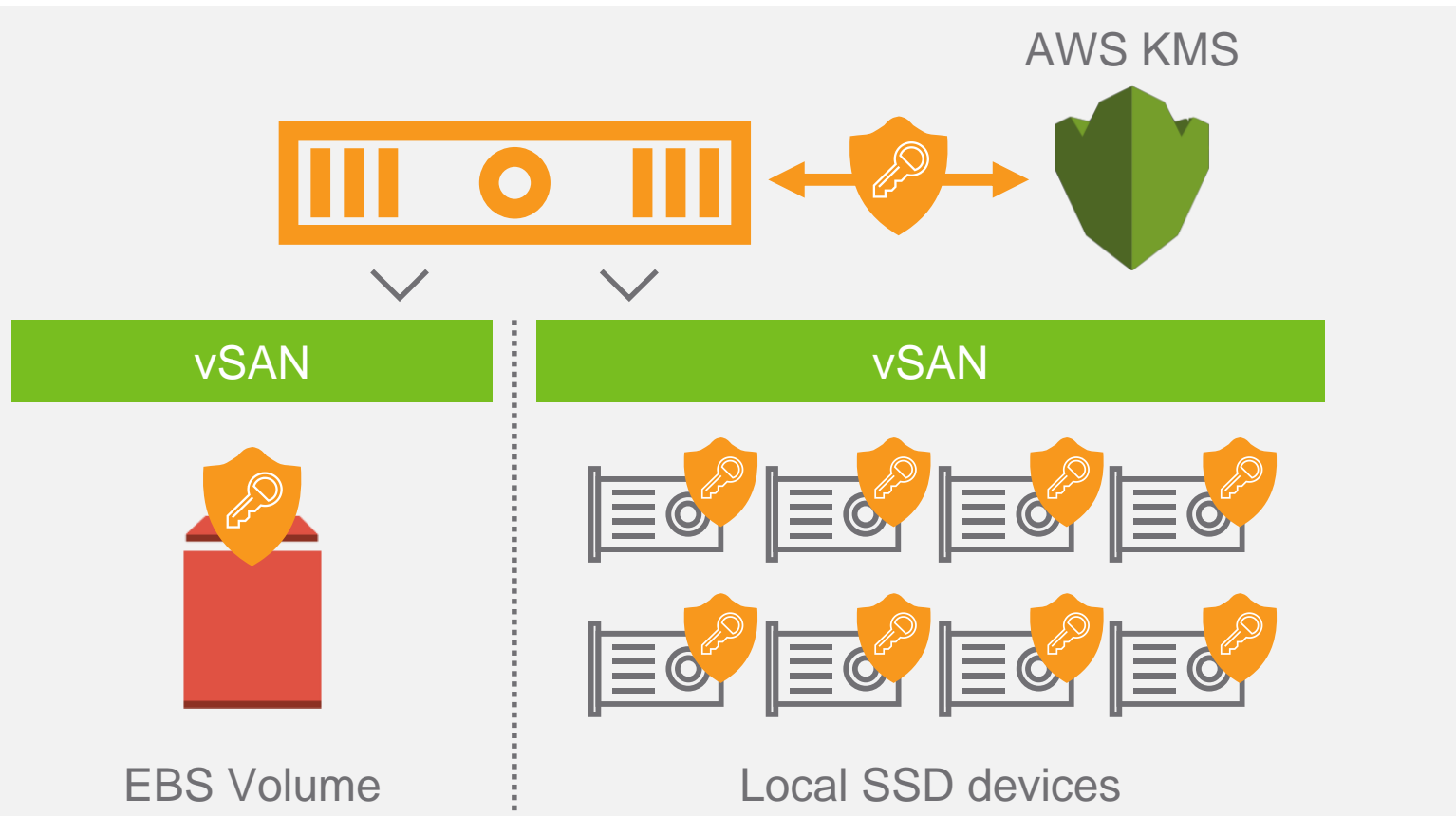
- Automatically authenticates using current user's OAuth token
- Automatically populates certain fields

SDKs include links to their GitHub repo, documentation, samples, getting started blogs

Downloads include links to PowerCLI, Datacenter CLI (CLI), and Terraform resources

# New encryption capabilities for improved risk management

Built-in integration with AWS Key Management System (KMS) for vSAN encryption



- All data at rest on VMware Cloud on AWS is encrypted using vSAN software-based encryption
- AWS KMS integration enables secure and centralized management of keys
- Makes it easier for customers to meet their security, compliance and regulatory requirements

# VMware Cloud on AWS attains key industry certifications

Compliance Certifications, attestations and assessments



ISO 27001, 27017,  
27018



SOC 1, SOC 2, SOC 3



GDPR compliance



HIPAA BAA



CSA STAR Self-  
Assessment



ISAE 3402



BSI Zertifikat C5

# VMware In-Product Support Experience

## Help At Your Fingertips



**Intelligent Search:** Surfaces popular content based on the user's location and contextual usage in the product



**Chat with VMware Support:** Quickly address questions or issues with highly skilled VMware Support Engineers and Customer Support Representatives



**Support Requests (SRs):** Create and manage SRs or our Support Engineers can create SRs on their behalf via chat without leaving the product.



**Ask the Community:** Engage and pose questions to actively moderated communities backed by passionate VMware Support Engineers and VMware Experts around the globe.



**Service Health:** Review live status of VMware Cloud Services and receive important service notifications.

The screenshot displays the VMware Support interface with the following elements:

- SUPPORT** header with a search icon.
- Search bar: "Search for answers ..."
- Section: "Popular topics for this page"
  - Help • [How do I create a new SDDC?](#)
  - Docs • [SDDC Upgrade Overview](#)
  - KB • [How many hosts can I have in my SDDC?](#)
  - Docs • [How do I connect to my SDDC using PowerCLI?](#)
  - Communities • [Why can't my virtual machines reach the internet?](#)
- Section: "Chat with VMware Support"
  - Text: "The team typically replies in a few minutes."
  - Three profile pictures of support team members.
- Section: "Support Requests" (button)
- Section: "Ask the Community" (button)
- Section: "Service Health"
  - Text: "All Systems Operational" with a green checkmark icon.
- Footer: "Legal & Terms" and "Cookie Usage" links.

# VMware Cloud on AWS Customers

Broad adoption across various industries and segments





# Tanzu Kubernetes Grid Plus support for VMware Cloud on AWS

Tanzu Kubernetes Grid Plus (TKG) is an enterprise-ready Kubernetes runtime that powers the delivery of applications across clouds.

Organizations that want to start running containers and Kubernetes on VMware Cloud on AWS can get started today with VMware TKG+.

This is a customer managed offering



## Speed

Provision Kubernetes clusters via CLI, eliminating complex deployment and management processes



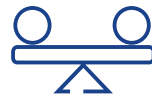
## Scalability

Scale Kubernetes clusters to meet developer needs.



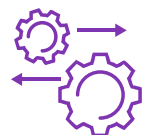
## Portability

Move workloads on a Tanzu Kubernetes Grid Plus that spans clouds, including multiple VMware Cloud on AWS deployments.



## Consistency

Drive adoption of Kubernetes through familiar tools and the necessary compute, network, and storage infrastructure.



## Automation

Apply automation to manage key aspects of cluster lifecycle and free developers to focus on their applications.

# VMware Cloud on AWS Feature Availability

Features are classified according to the following phase:

## Available

Feature now available for use by applicable customers.  
May not be available in all AWS regions

## Preview

Feature released in preview to gather feedback. May not be available to all applicable customers or in all AWS regions

## Developing

Feature in active development and testing

## Planned

Feature under consideration or planning for future development

The information in this presentation is for informational purposes only and may not be incorporated into any contract. There is no commitment or obligation that items in 'Preview', 'Developing', and 'Planned', will become 'Available'.

For the latest information and feature status, please see:

- Release Notes  
<https://docs.vmware.com/en/VMware-Cloud-on-AWS/0/rn/vmc-on-aws-relnotes.html>
- FAQs  
<https://cloud.vmware.com/vmc-aws/faq>
- Roadmap  
<https://cloud.vmware.com/vmc-aws/roadmap>

Feature statuses in this document are subject to change



# Thank You