

AWS
re:Invent

E N T 3 0 6 - R

Getting hands on with VMware Cloud on AWS and native AWS service integrations

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Workshop agenda

VMware Cloud on AWS

Hands-on workshop

Resources

Related breakouts

ENT318-R - [REPEAT] Building hybrid cloud architectures with VMware and AWS

ENT212-S - Transform your business with the VMware & AWS hybrid cloud

NET334-R - [REPEAT] Designing hybrid connectivity for VMware Cloud on AWS

CON332-S - Extreme infrastructure automation with Wavefront by VMware

19 different sessions – Breakouts, Builders Sessions, Chalk Talk, Partner Presentations

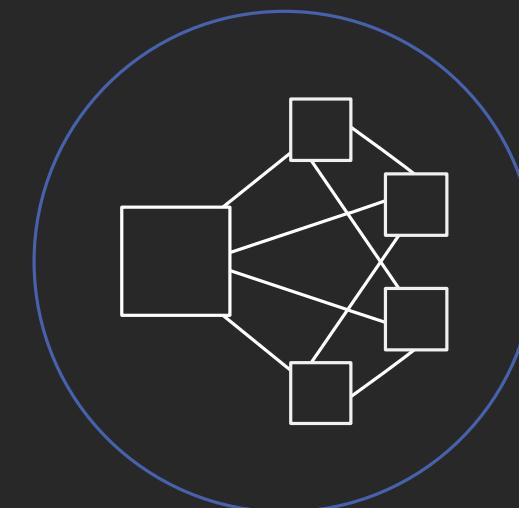
Search for “VMware” in the session catalog

VMware Cloud on AWS

Innovation jointly engineered by VMware and AWS



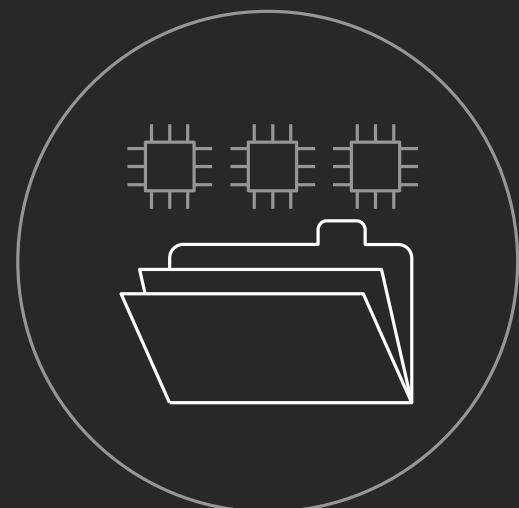
Connectivity
AWS Direct Connect



**High availability
and reliability**
Stretch cluster



Security
Distributed firewall

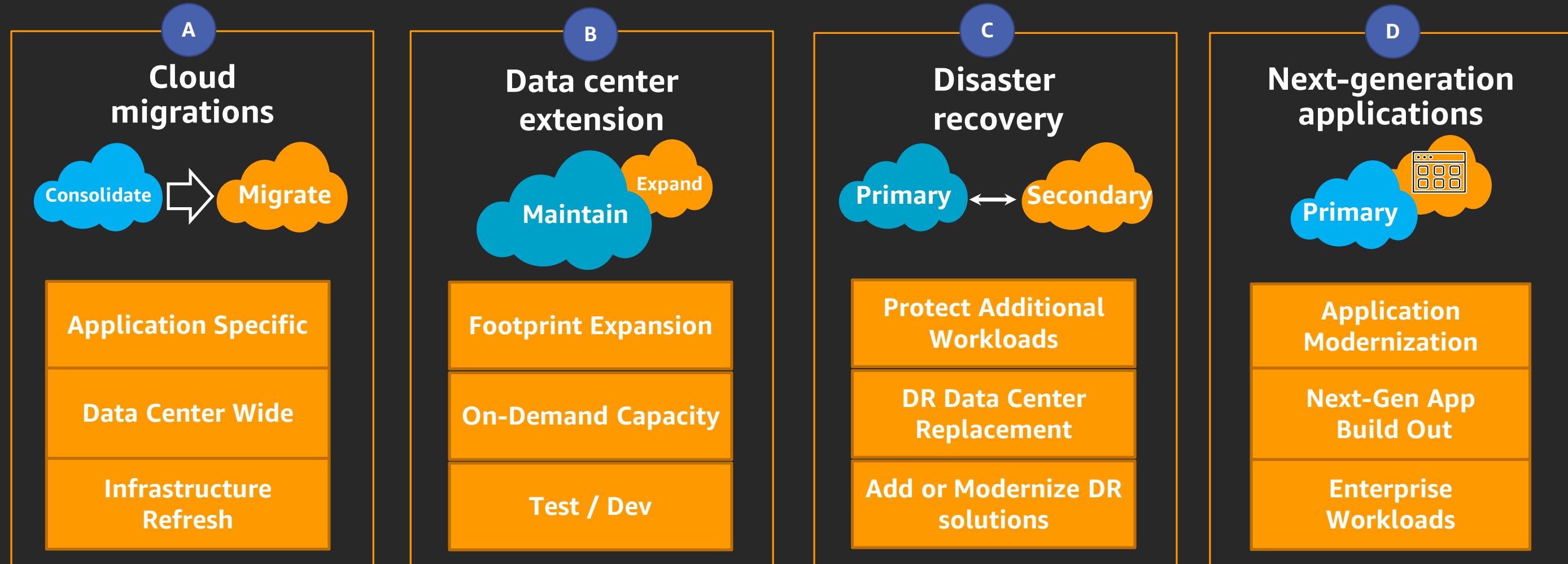


Storage
vSAN with instance store and Amazon EBS



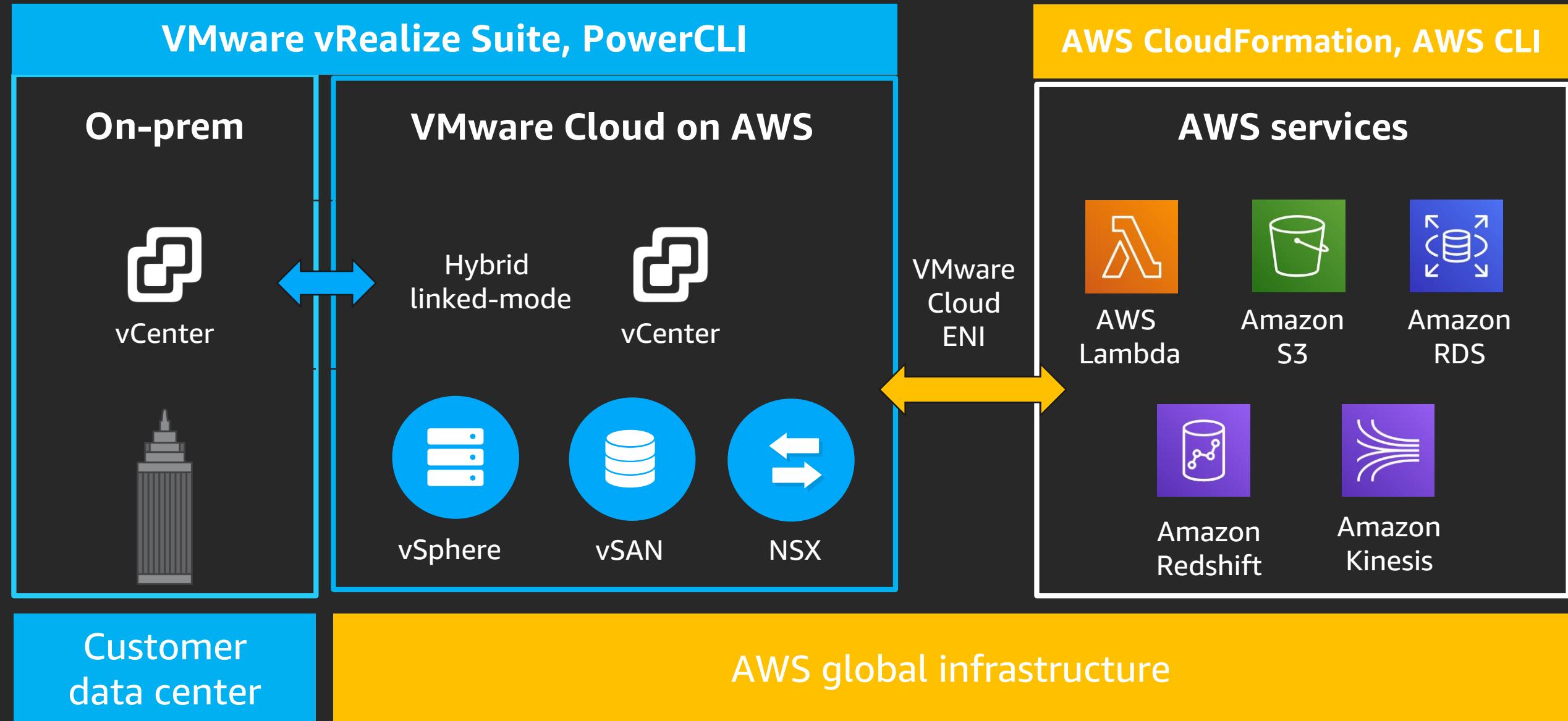
Integration
Access to AWS services

VMware Cloud on AWS – Use cases



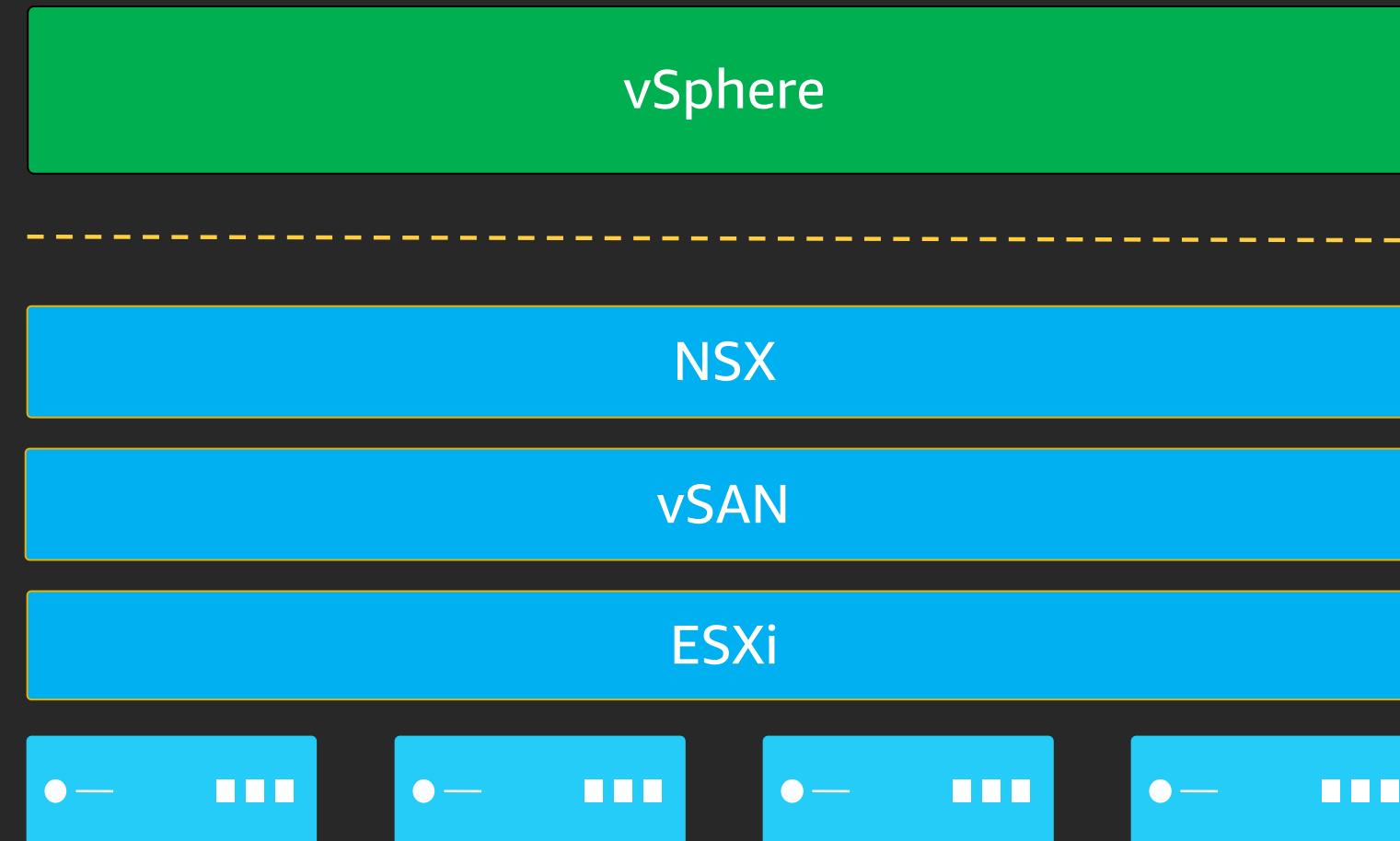
Customer decides and places workloads between on-premises and AWS

Hybrid and integrated connectivity



VMware Cloud on AWS – Components

Software defined data center

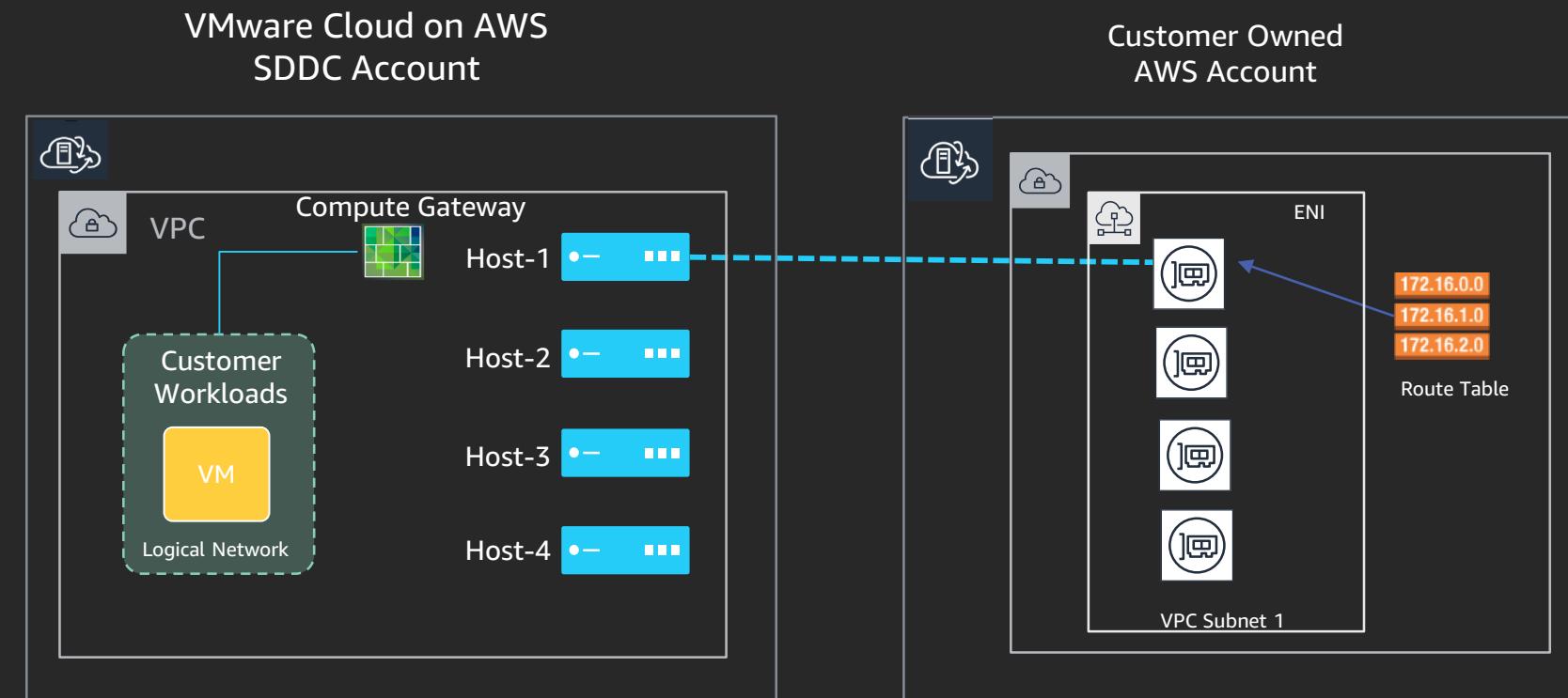


VMware Cloud on AWS – Components & features

Virtualization	vSphere 6.5+, Hybrid linked-mode, Elastic DRS	
Security	IKEv1 & IKEv2, DFW, IPFIX, Port Mirroring, Micro-segmentation	
Networking	Backed by NSX-T – includes advanced networking features; micro-segmentation, DFW, IPSec VPN, DX and more	
	I3.metal	R5.metal
Storage	All Flash NVMe instance store based vSAN 15 TB	EBS (gp2) backed VSAN up to 35 TB with EBS
Compute	2 CPU Sockets 36 CPU Cores [customizable] 512 GiB RAM 25 GB ENA	2 CPU Sockets 48 CPU Cores [customizable] 768 GiB RAM 25 GB ENA

Integration with AWS services

- Integrate with 160+ AWS services
- Enabled via VMware Cloud ENI (Elastic Network Interface)
- High-bandwidth, low-latency, highly available network connection
- Run VPC endpoints for private connection from VPC to AWS services



Hands-on workshop

Workshop modules



VMware Cloud on AWS



Security



Monitoring



Data resilience



Analytics

Module – Outcomes

Security

Improve security for VMware Cloud on AWS workloads using AWS services

Data resilience

Increase resiliency of your VMware Cloud on AWS workloads using AWS services

Monitoring

Add monitoring and operational insight to your VMware Cloud on AWS workloads using AWS services

Analytics

Do analytics and gain insights from your data on VMware Cloud on AWS

Module – Services

Security



AWS WAF

Monitoring



Amazon CloudWatch

Data resilience

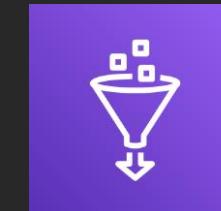


Amazon Simple Storage
Service (Amazon S3)



AWS Storage
Gateway

Analytics



AWS Glue

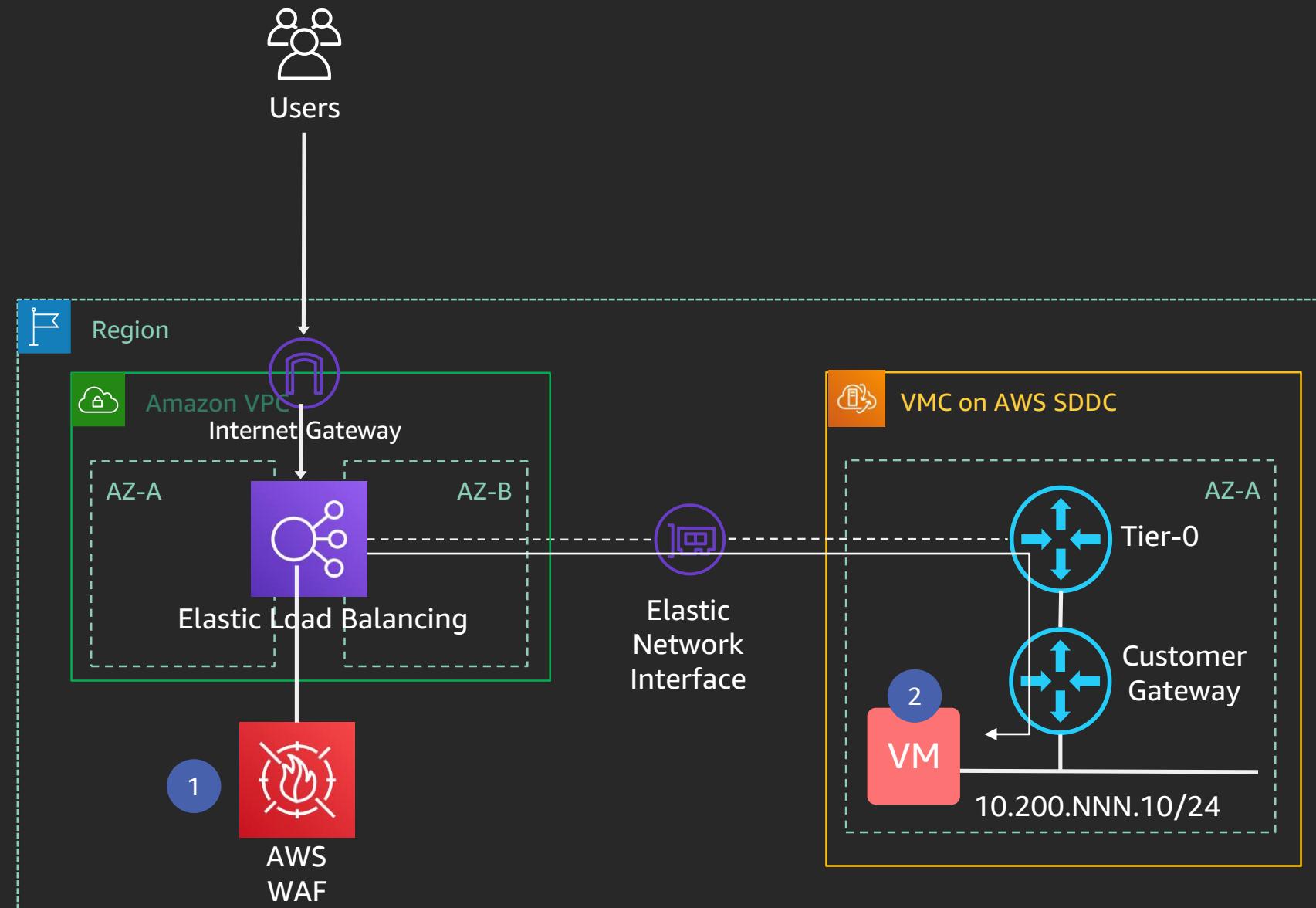


Amazon Redshift



VMware Cloud on AWS

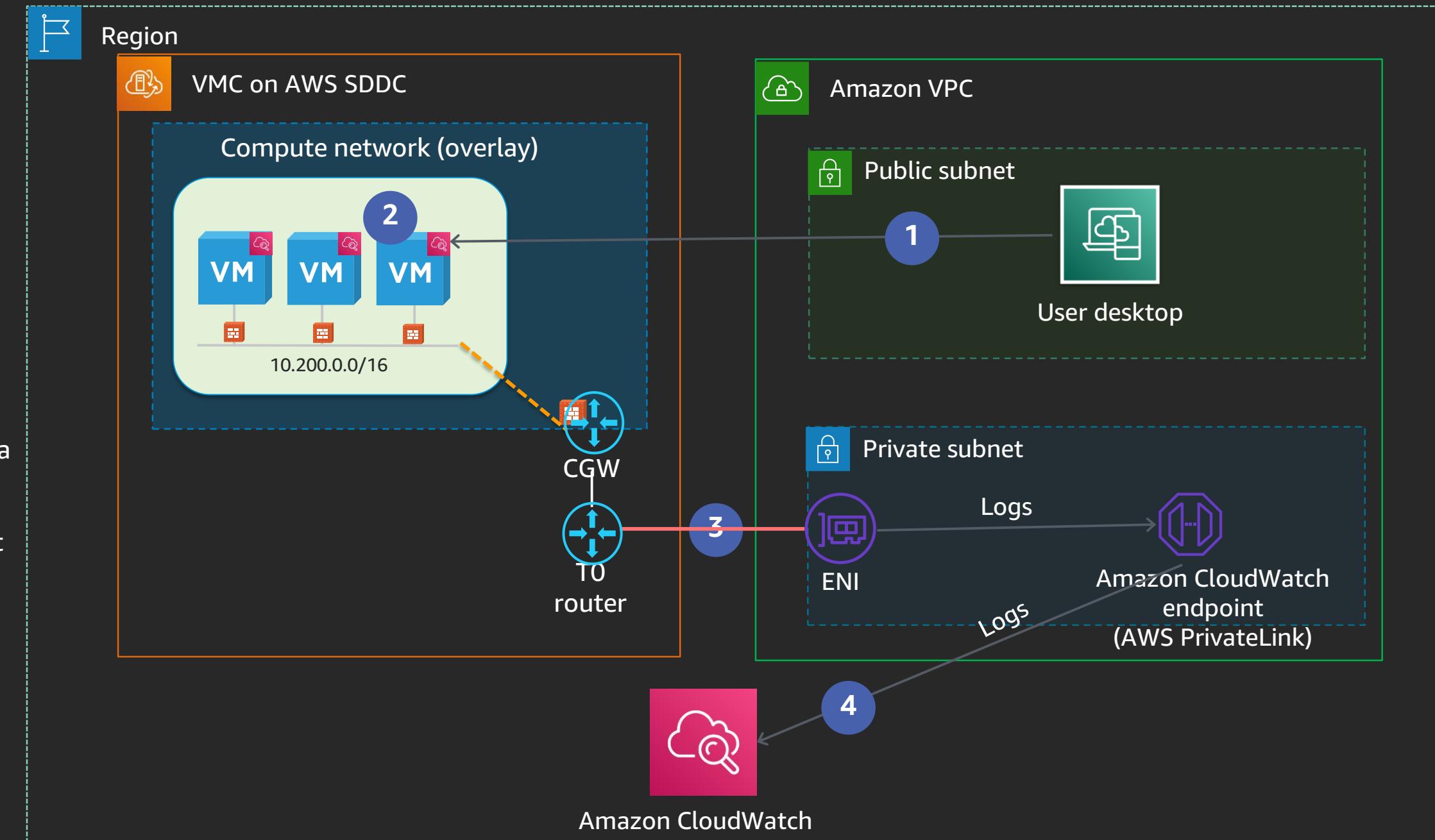
Module 1 – Security



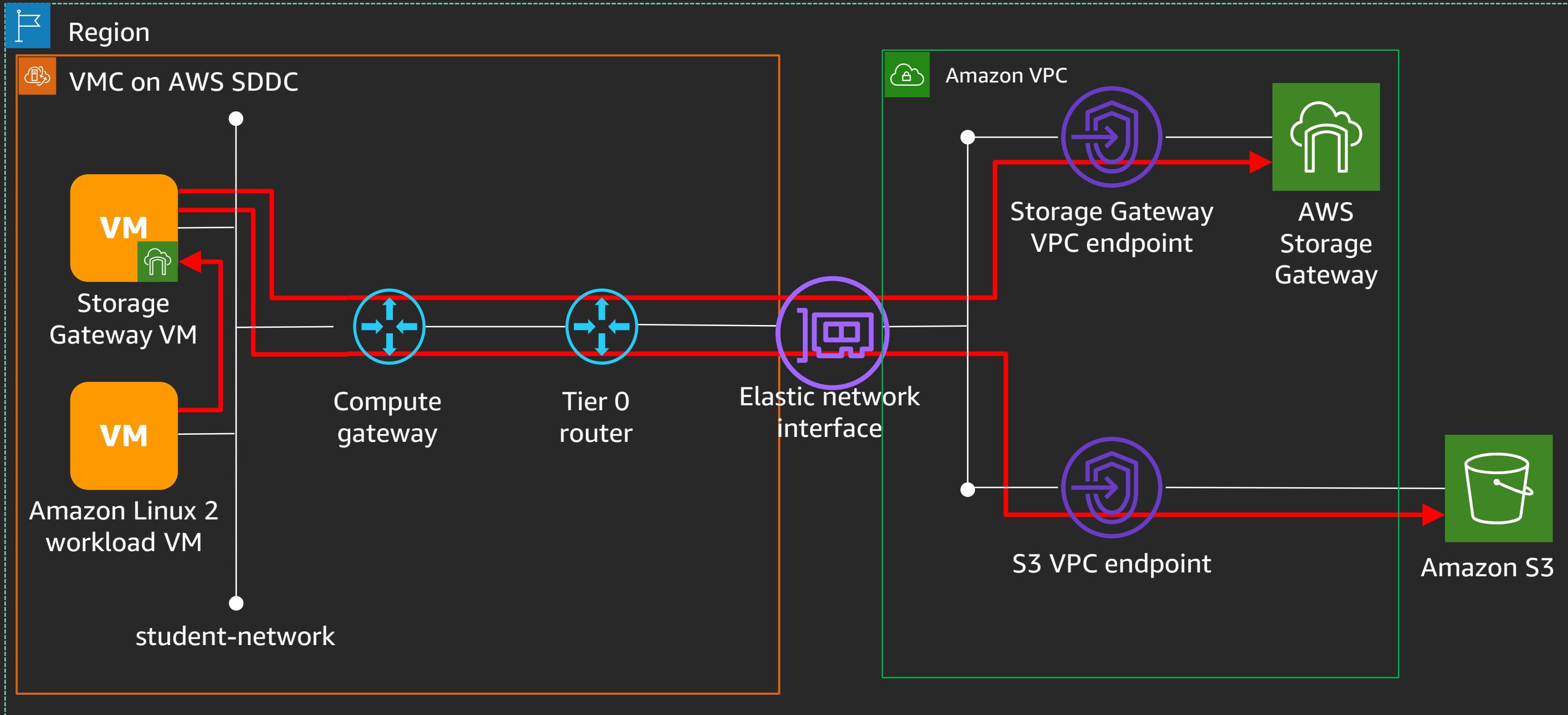
- 1 Elastic Load Balancing service integrated with AWS WAF is deployed into the customer VPC
- 2 The protected web application (DVWA) is accessible only via Elastic Load Balancing and is located within the VMware Cloud on AWS environment

Module 2 – Monitoring

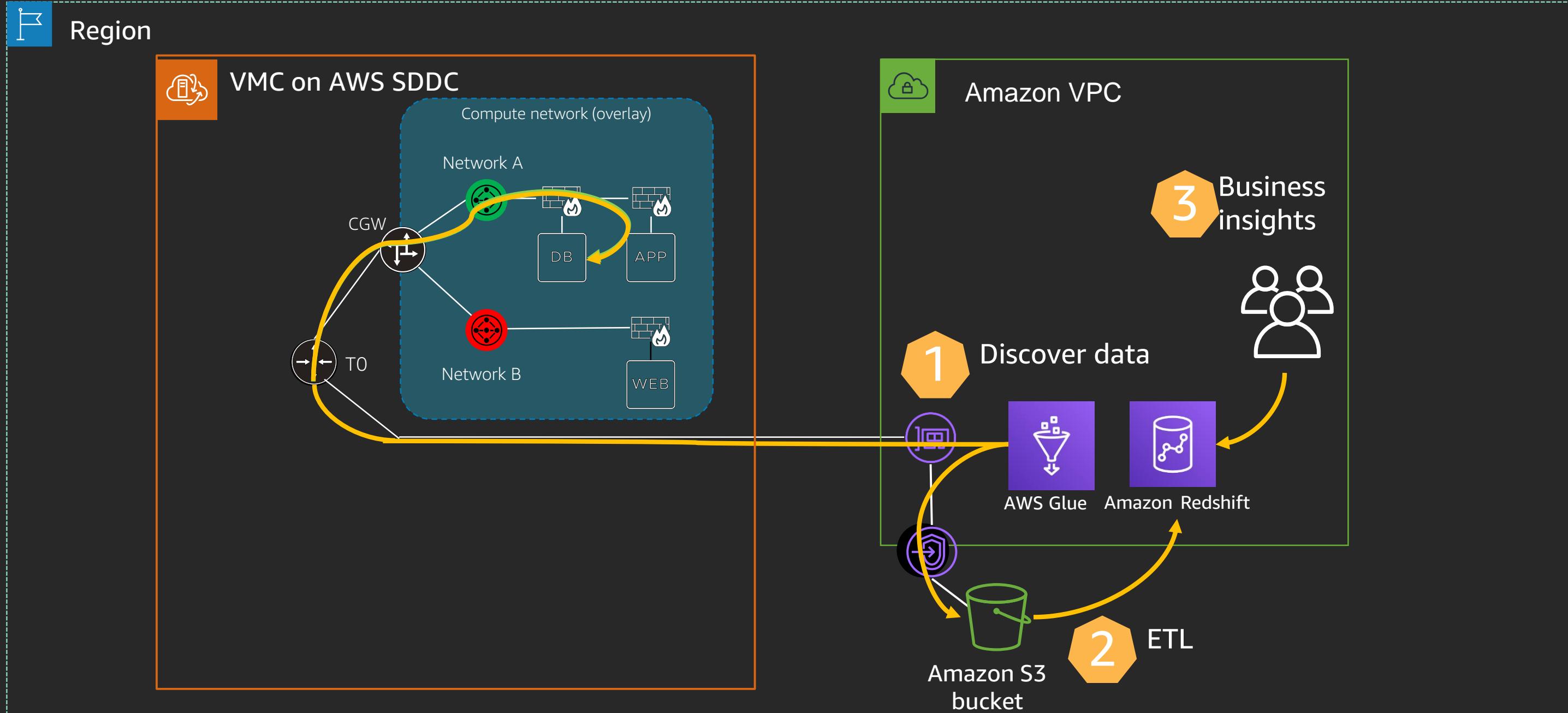
1. Web traffic is directed to workloads hosted on VMware Cloud on AWS
2. Based on configuration in config.json, the Amazon CloudWatch agent captures specific log files from the app VM
3. Logs from each VM are sent via the elastic network interface (ENI) connection to the Amazon CloudWatch endpoint in the connected VPC over private IP space
4. Amazon CloudWatch dashboards are automatically updated with the latest logs / metrics



Module 3 – Data resilience



Module 4 – Analytics



Workshop logistics

- Each module is independent
 - Start in any order
 - 25 minutes recommended for each module
- Analytics is an advanced module
 - Recommendation: Work other modules first. Keep it towards the end
- If you run into issues, talk to the AWS session support

Resources

Resources

- <https://aws.amazon.com/vmware/>
- <https://cloud.vmware.com/vmc-aws>

Email us at aws-vmware-cloud@amazon.com

AWS Training and Certification for the enterprise

Resources to help your organization build cloud skills and achieve business objectives



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(TCO)



Staff
productivity



Operational
resilience



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agility

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