



AWS
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NET 334 - R

Designing hybrid connectivity for VMware Cloud on AWS

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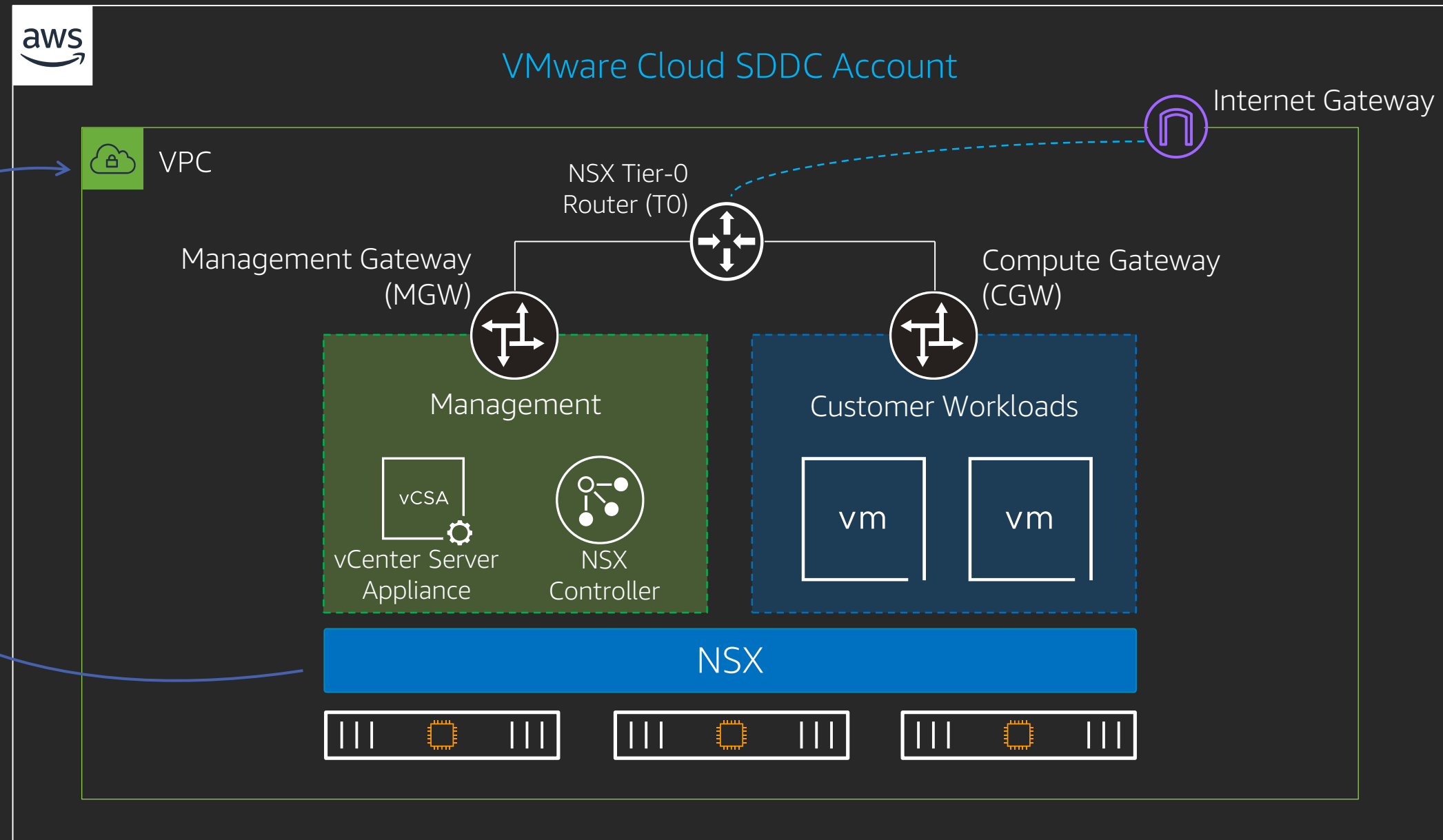
Pr. Specialist SA, VMware
Amazon Web Services

Agenda

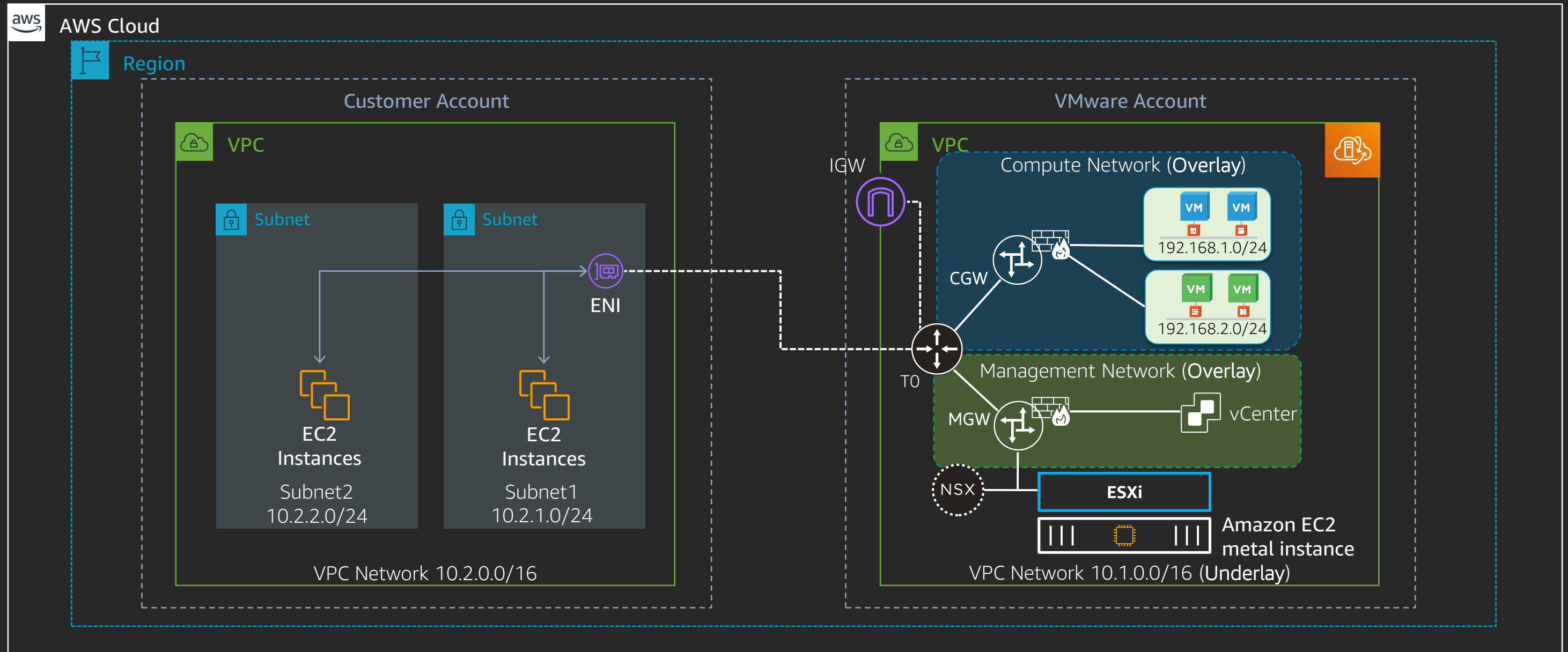
- Networking foundation for VMware Cloud on AWS software-defined data centers (SDDC)
- SDDC connectivity to native AWS services
- Extend connectivity to on-premises
- Whiteboarding

Networking foundation for software-defined data center (SDDC)

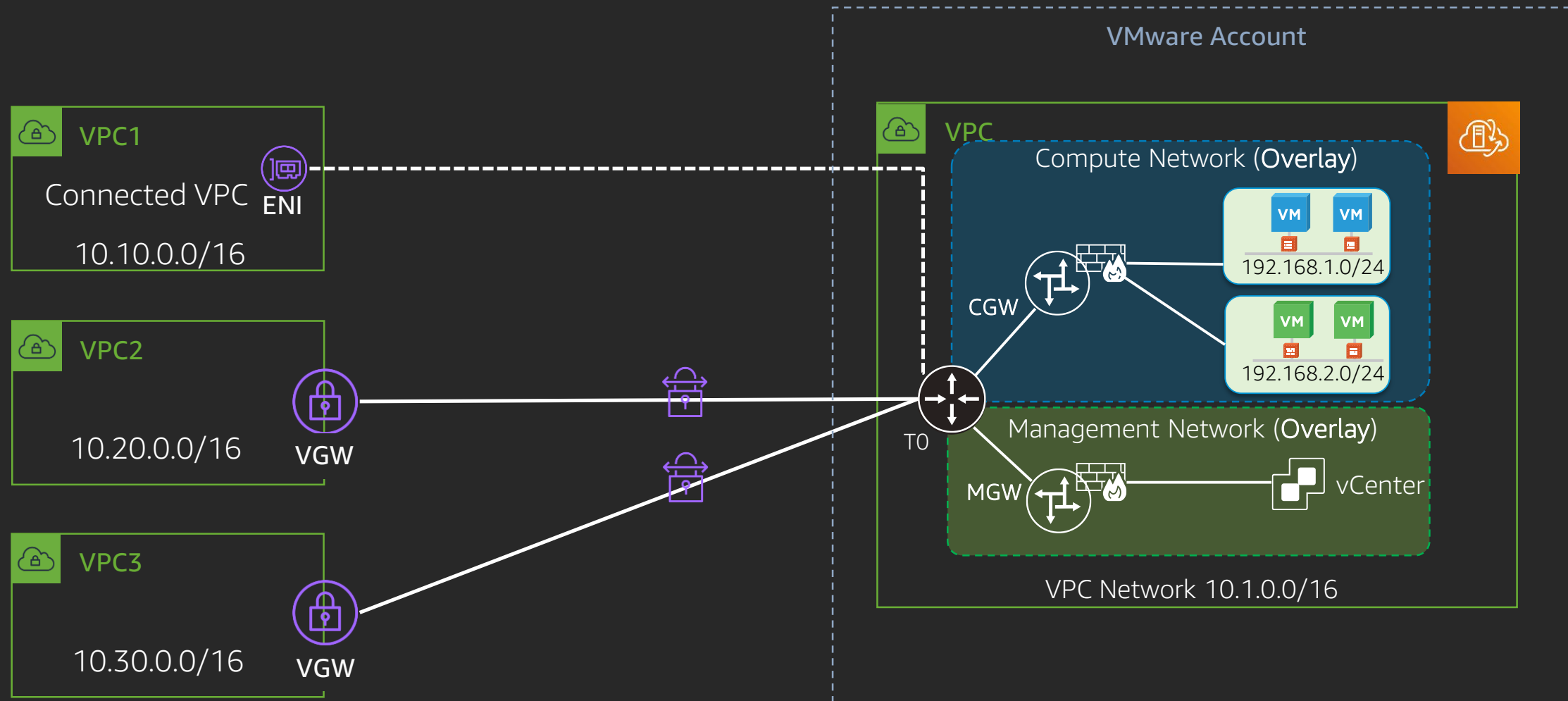
VPC = Underlay
NSX = Overlay



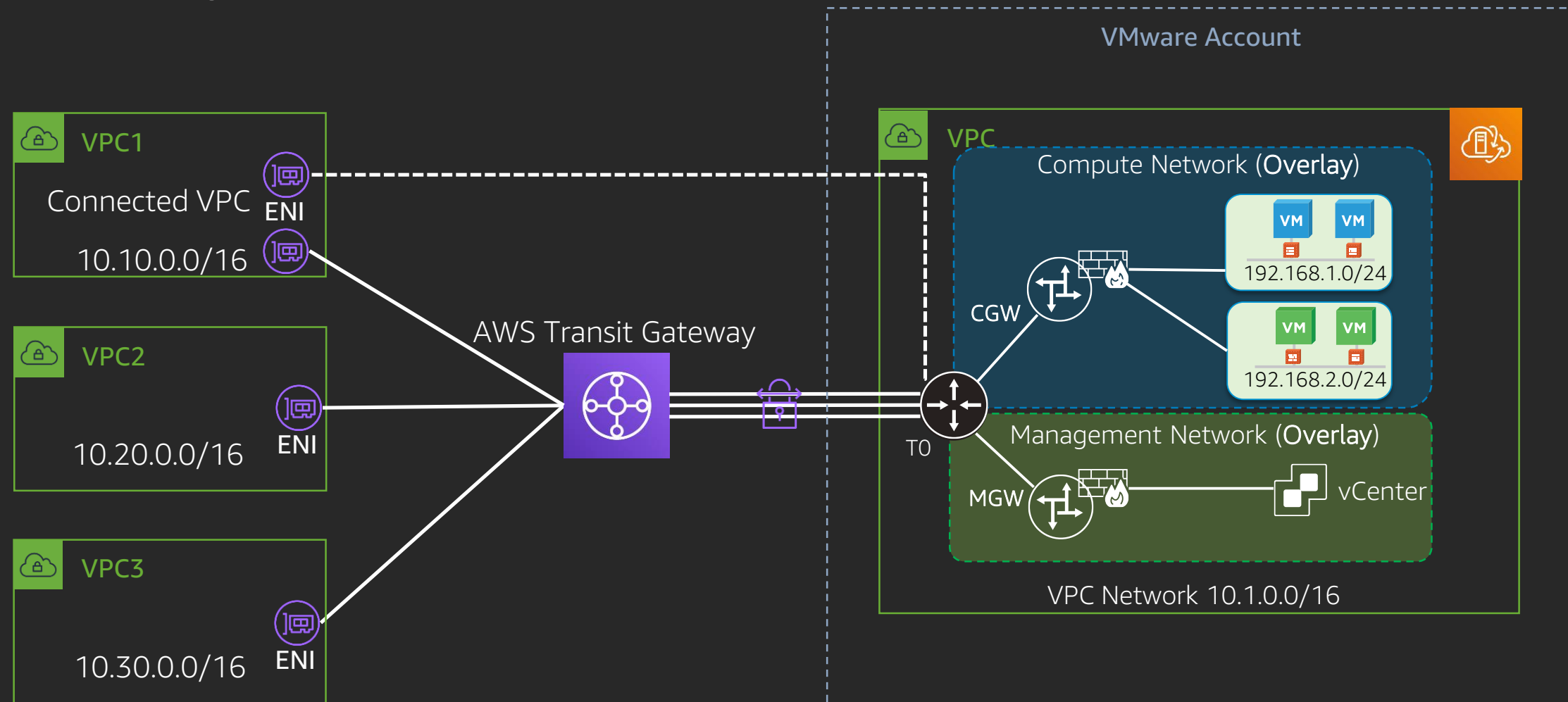
SDDC to customer-connected VPC



Connectivity to other VPCs



Connectivity to other VPCs



Connectivity to native AWS services

AWS Services access models

Private

VPC gateway endpoints

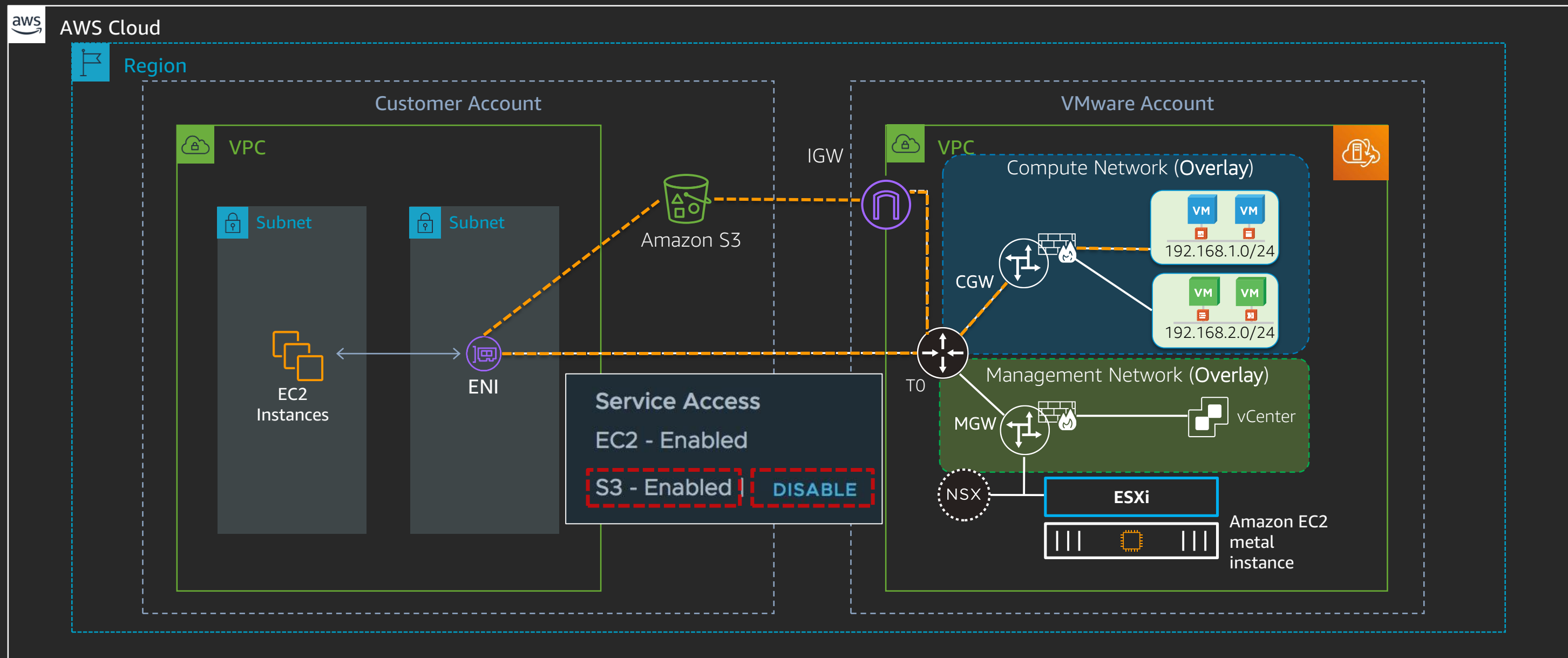
VPC interface endpoints (AWS PrivateLink powered)

Service endpoints within a customer-managed VPC

Public

Direct access to public endpoints

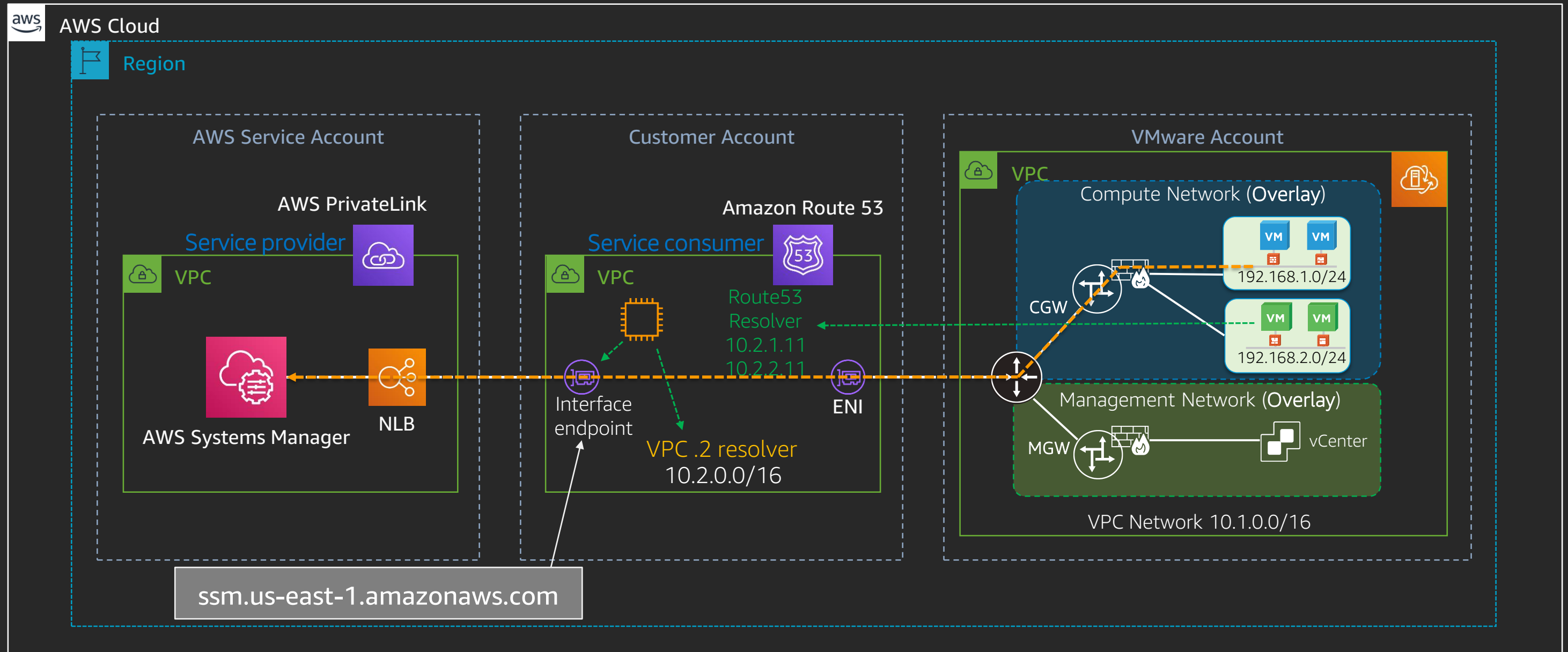
Gateway endpoints: Amazon Simple Storage Service (S3)



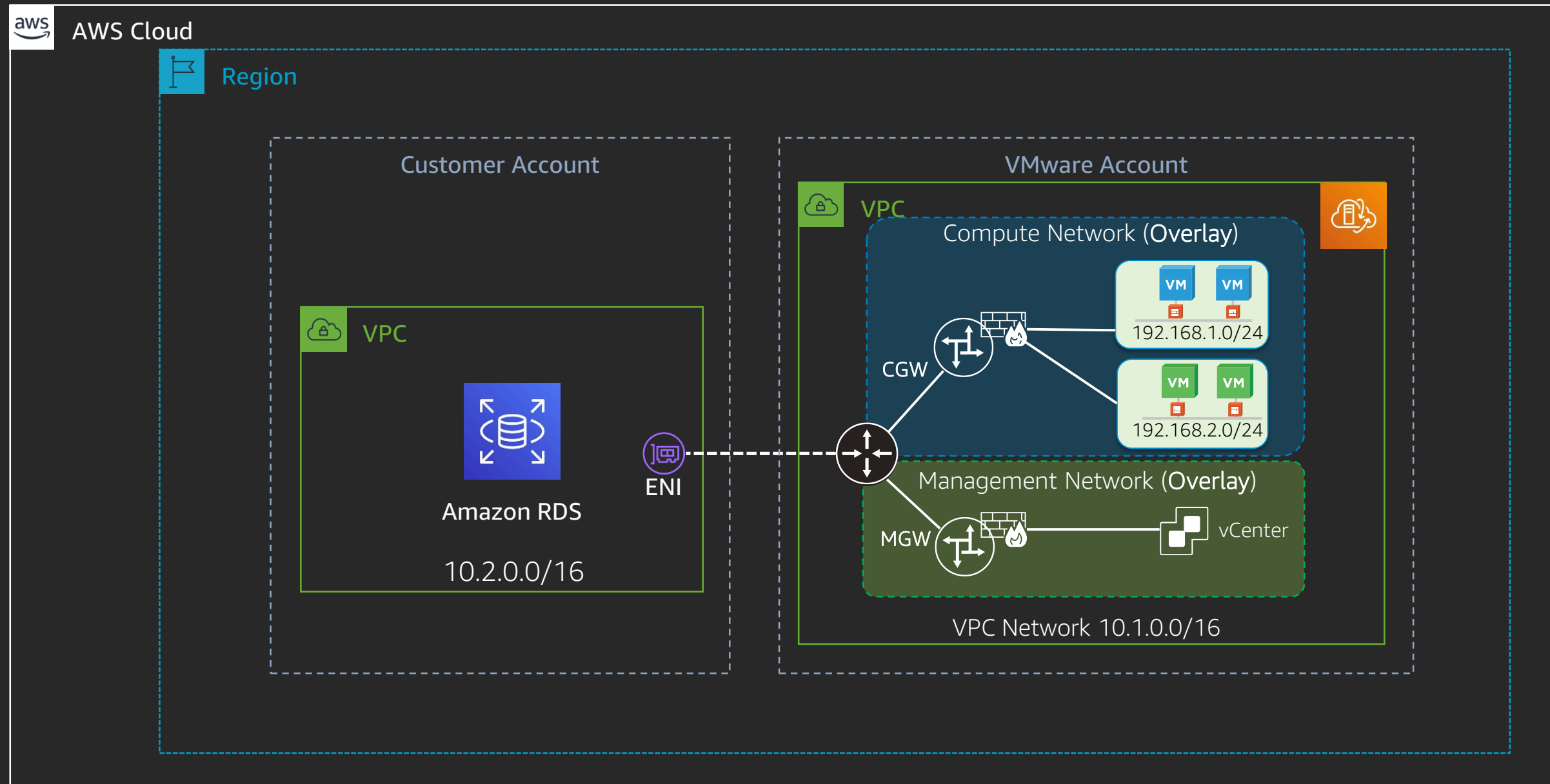
What services can be accessed using AWS PrivateLink?

- **AWS Services**
 - Amazon CloudWatch logs
 - AWS CodeBuild
 - Amazon EC2 API
 - Elastic Load Balancing API
 - AWS Key Management Service (AWS KMS)
 - Amazon Kinesis Data Streams
 - AWS Service Catalog
 - Amazon Simple Notification Service (Amazon SNS)
 - AWS Systems Manager
 - and more
- **Endpoint services hosted by other AWS accounts**
- **Supported AWS Marketplace partner services**

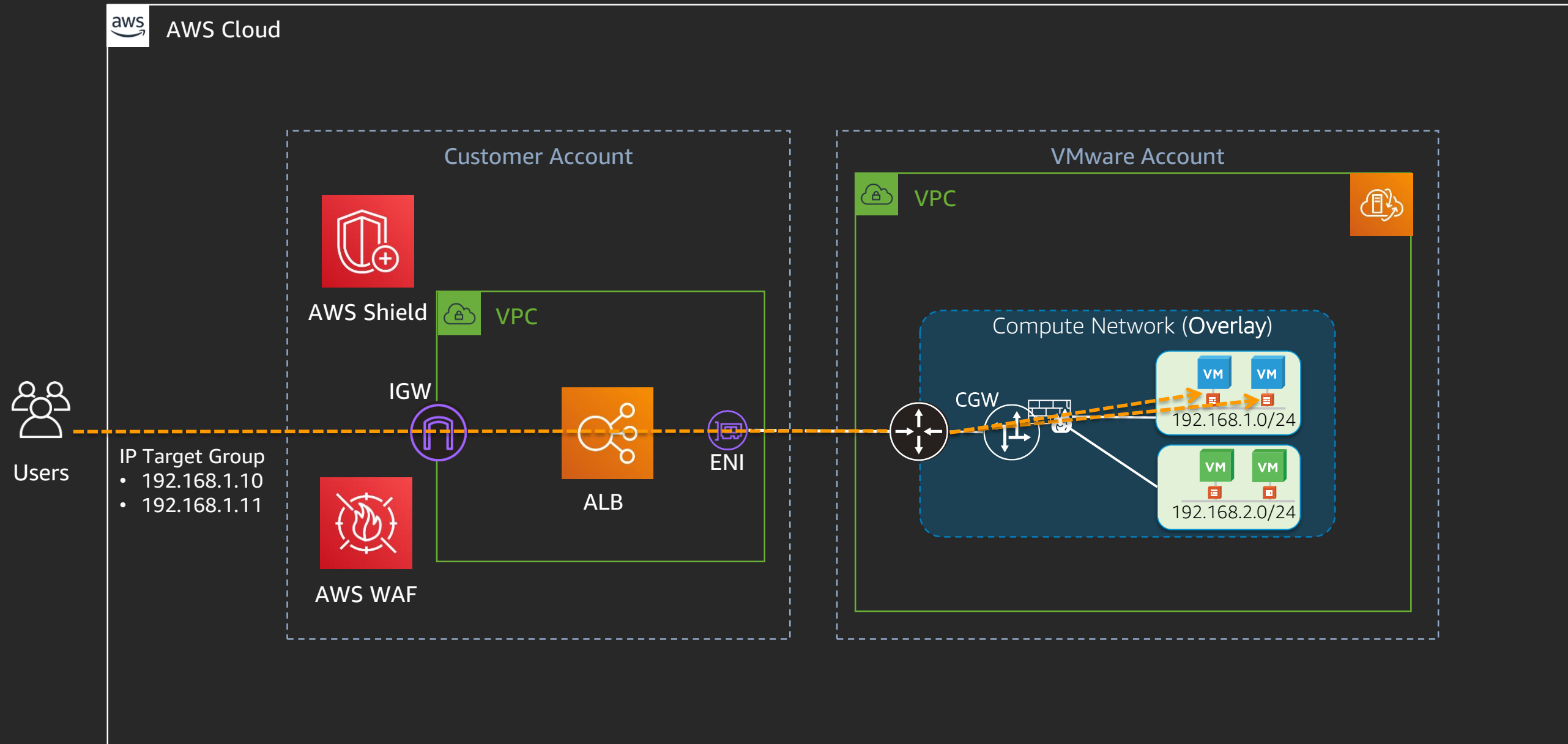
AWS PrivateLink: AWS Systems Manager



Amazon Relational Database Service (Amazon RDS)

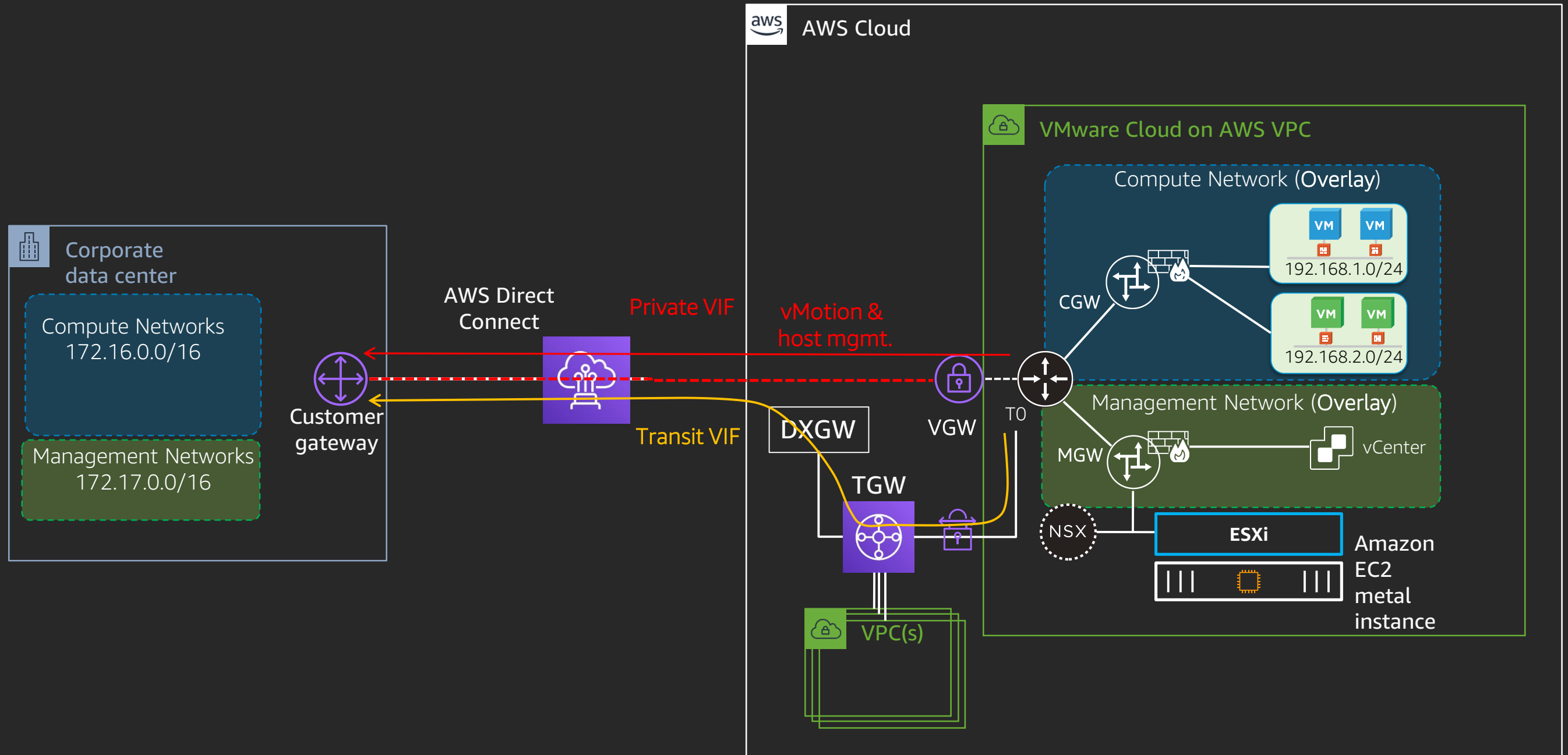


Application protection with Amazon ALB



Extending connectivity to on-premises

SDDC connectivity to on-premises



Whiteboarding

Whiteboarding: Design for requirements

1. Connect multiple SDDCs to multiple VPCs in the same region with east-west inspection capability
2. Shared services in single VPC for both VPCs and SDDCs per region
3. End-to-end encryption
4. Design for resiliency

Thank you!

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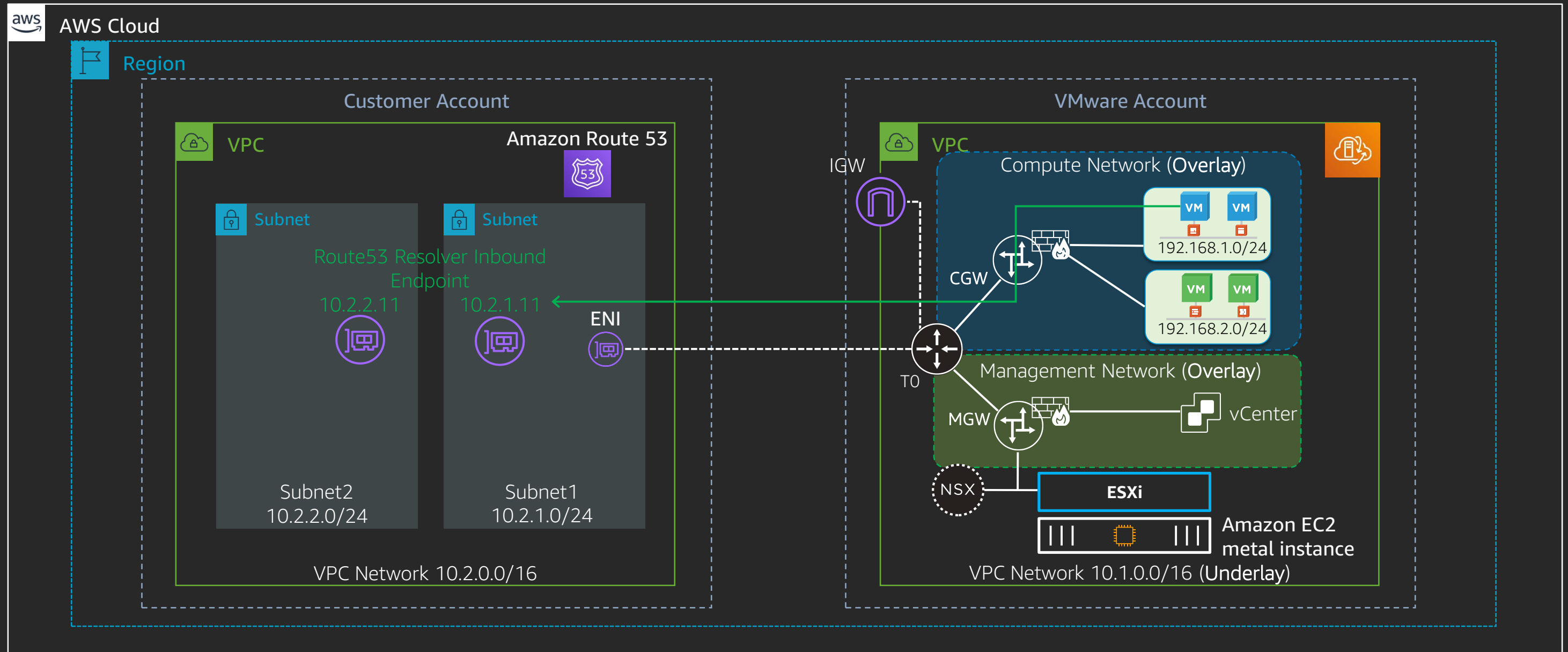
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SDDC to customer-connected VPC - DNS



Reminder: AWS account structure for VMware Cloud on AWS

VMware Cloud on AWS operates in a model; the VMware-managed cloud offering operates in a separate AWS account from a customer's AWS account

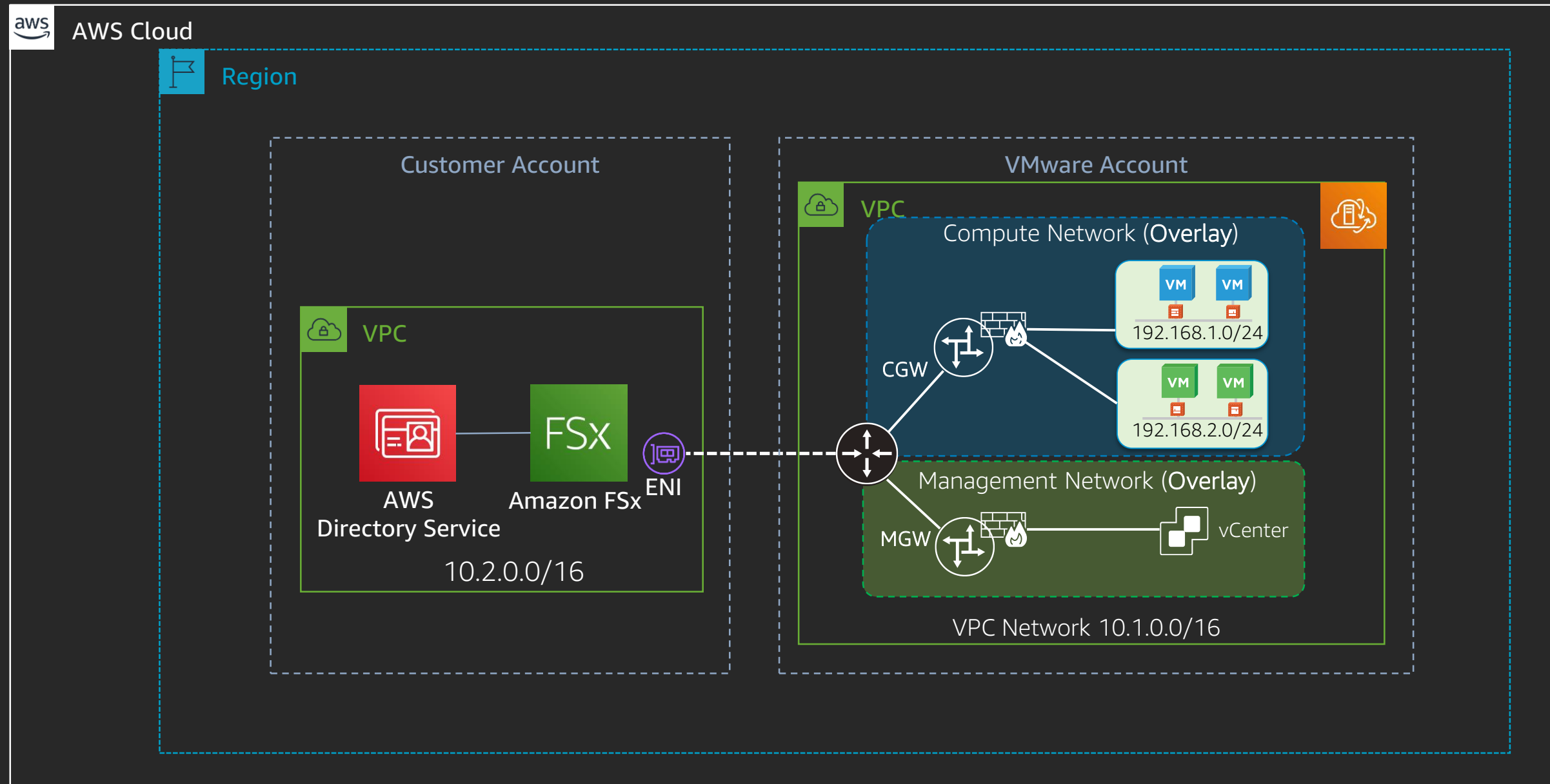
VMware Cloud SDDC account

- A new AWS account to run SDDC resources
- Owned, operated, and paid directly by VMware
- Single tenant for all SDDC resources

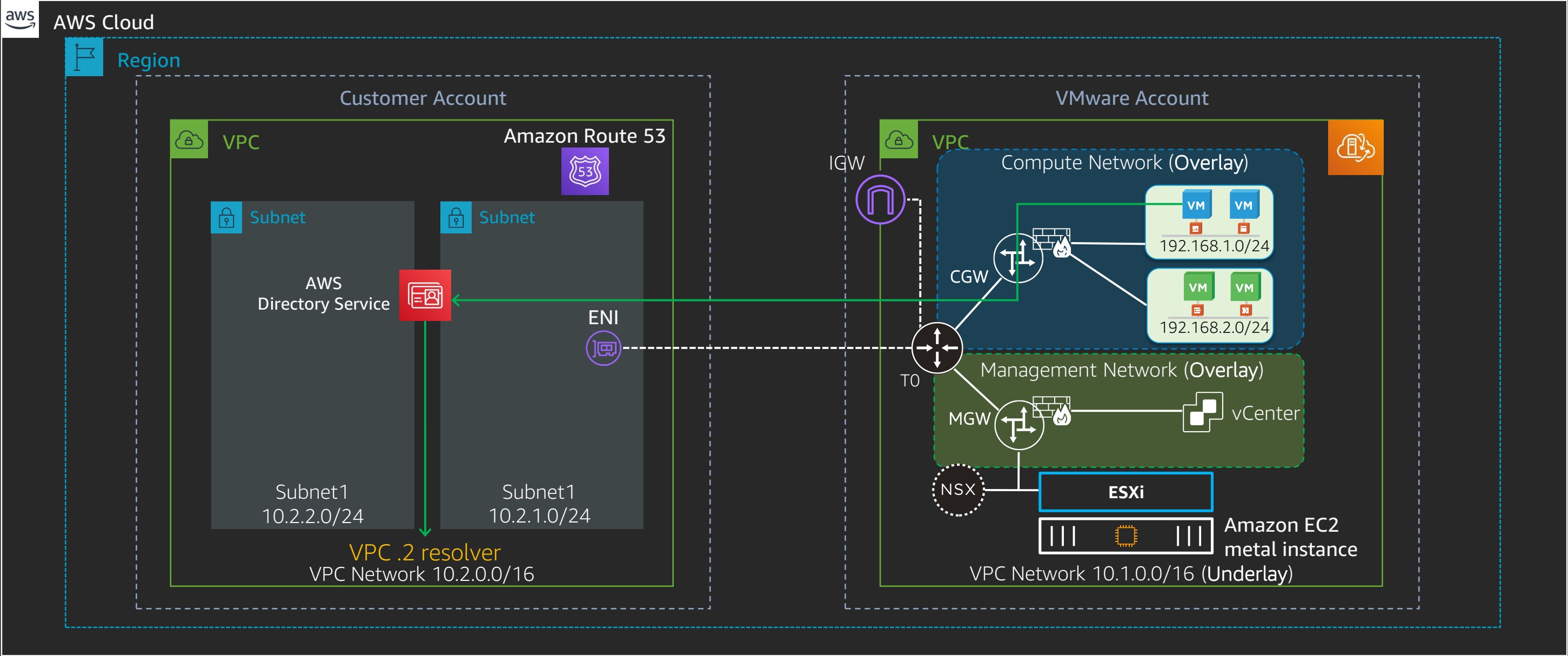
AWS customer-owned account

- Owned, operated, and paid for directly by the customer
- Private connectivity to VMware Cloud SDDC
- Full access to the native AWS services

Amazon FSx

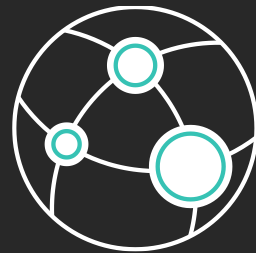


SDDC to customer-connected VPC - DNS



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