

The background features a dark blue gradient with abstract, glowing shapes in shades of purple and magenta. Two thin, light blue lines intersect diagonally across the scene. The text is positioned on the left side of the image.

# AWS re:Invent

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MAM237 - NEW

# Deep dive into Amazon Elastic VMware Service

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# Agenda

- 01 What is Amazon Elastic VMware Service (Amazon EVS)?
- 02 Compute
- 03 Storage
- 04 Networking
- 05 Q&A





# Amazon Elastic VMware Service

The fastest path to migrate and operate  
VMware-based workloads on AWS

PREVIEW

Simplify and accelerate your migration to AWS

Retain control of your VMware architecture in  
the cloud

Choose to self-manage or leverage AWS  
Partners for a managed experience

Embrace AWS innovation to transform  
your workloads

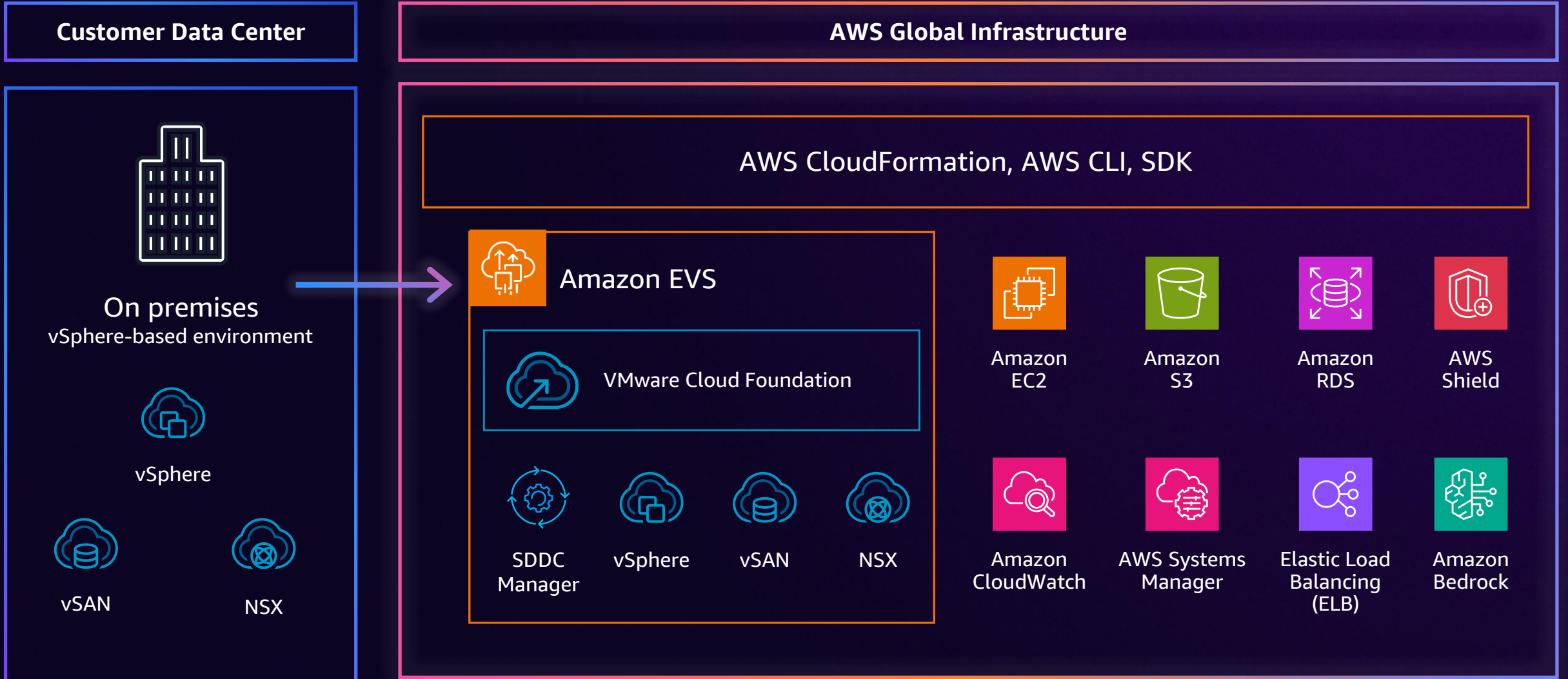
*\*Available in preview to pre-selected customers and partners. Details are subject to change.*

# Architecture overview



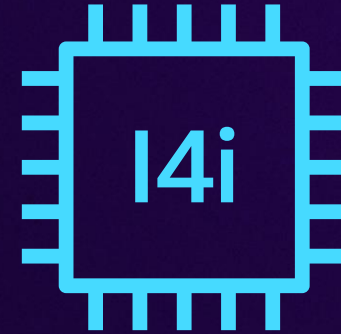


# Amazon EVS overview



# Compute

- Amazon EVS will be built on x86 baremetal EC2 instances starting with i4i.metal instances
- Intel Xeon Ice Lake - 128 vCPUs - 2.9 GHz / 3.5 GHz Turbo
- 30 TiB of raw local NVMe flash storage used for VMware vSAN primary datastore
- 75 Gbps networking shared across 2 x ENIs



i4i.metal



128 Physical Cores

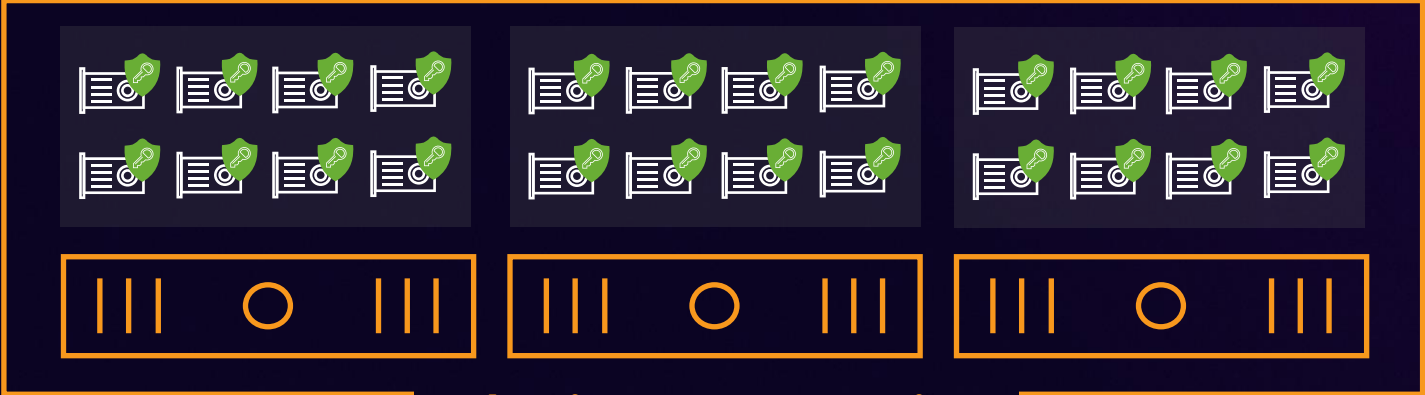
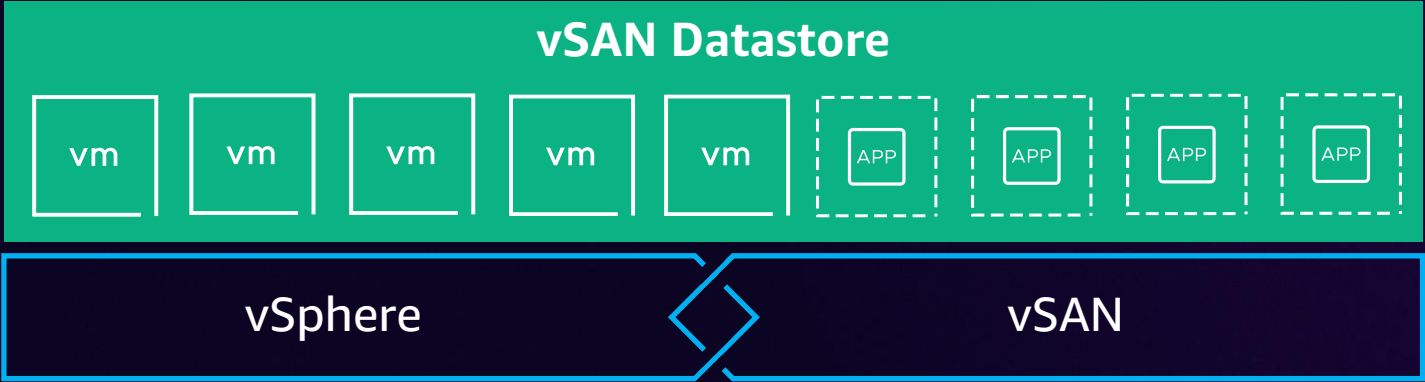


1024 GiB Memory



30 TiB  
8 x 3,750 AWS Nitro SSD

# Storage



**Elastic VMware Service**



**Primary Storage**

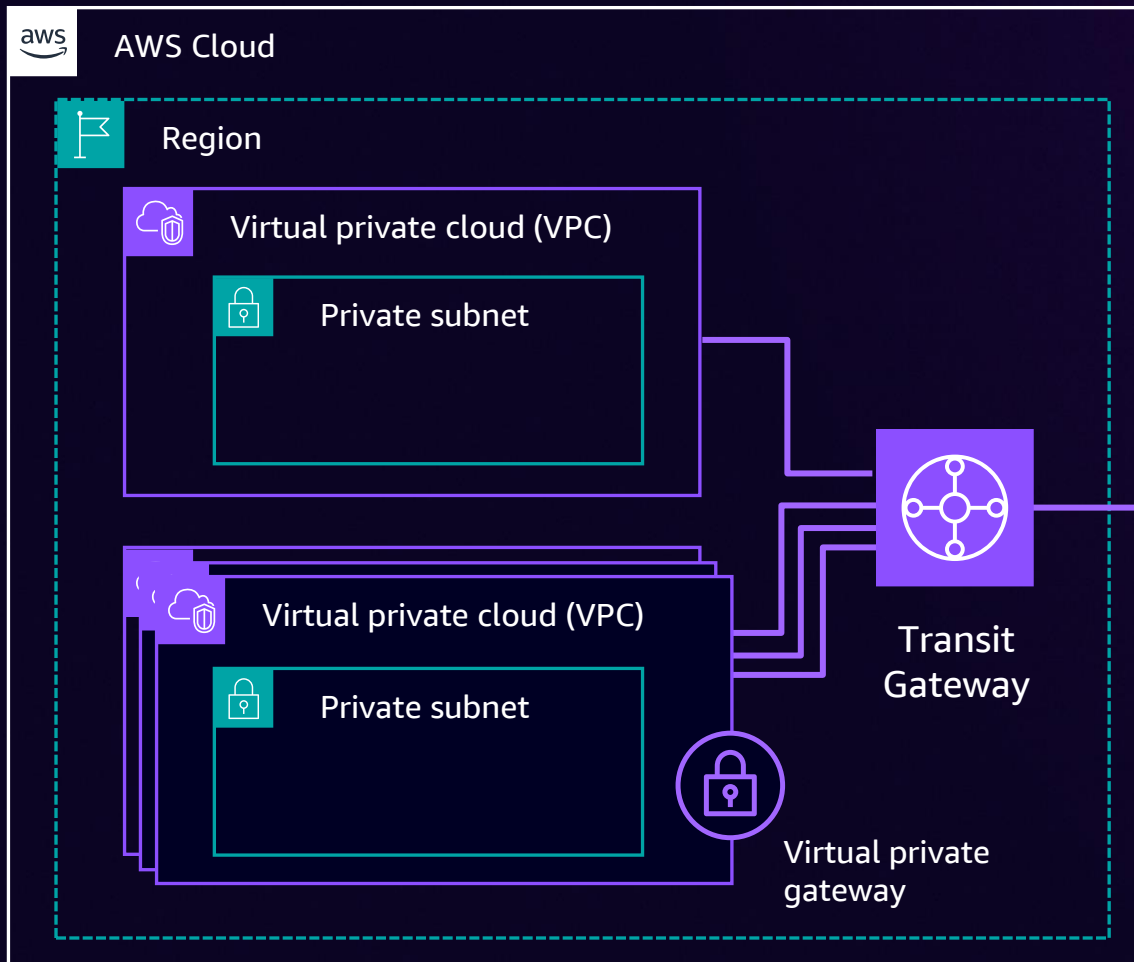
**Local Instance Storage  
powered by vSAN**

HCI simplicity and straightforward consumption



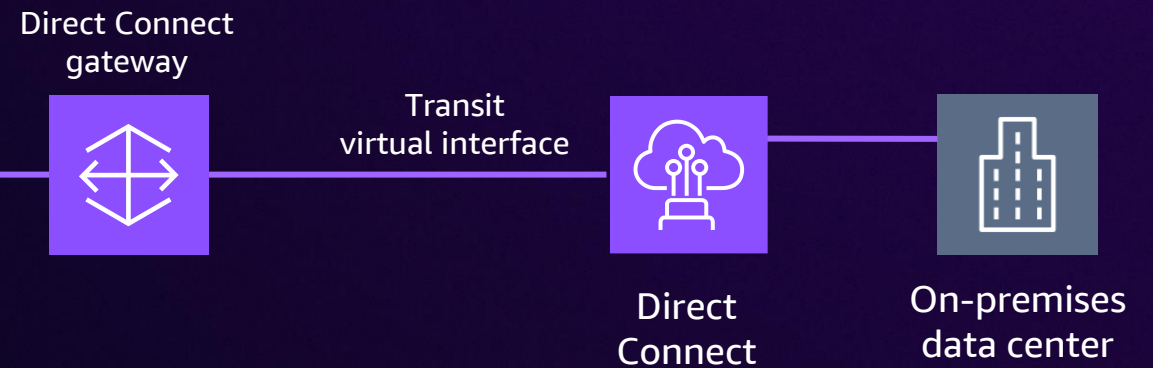


# AWS networking building blocks



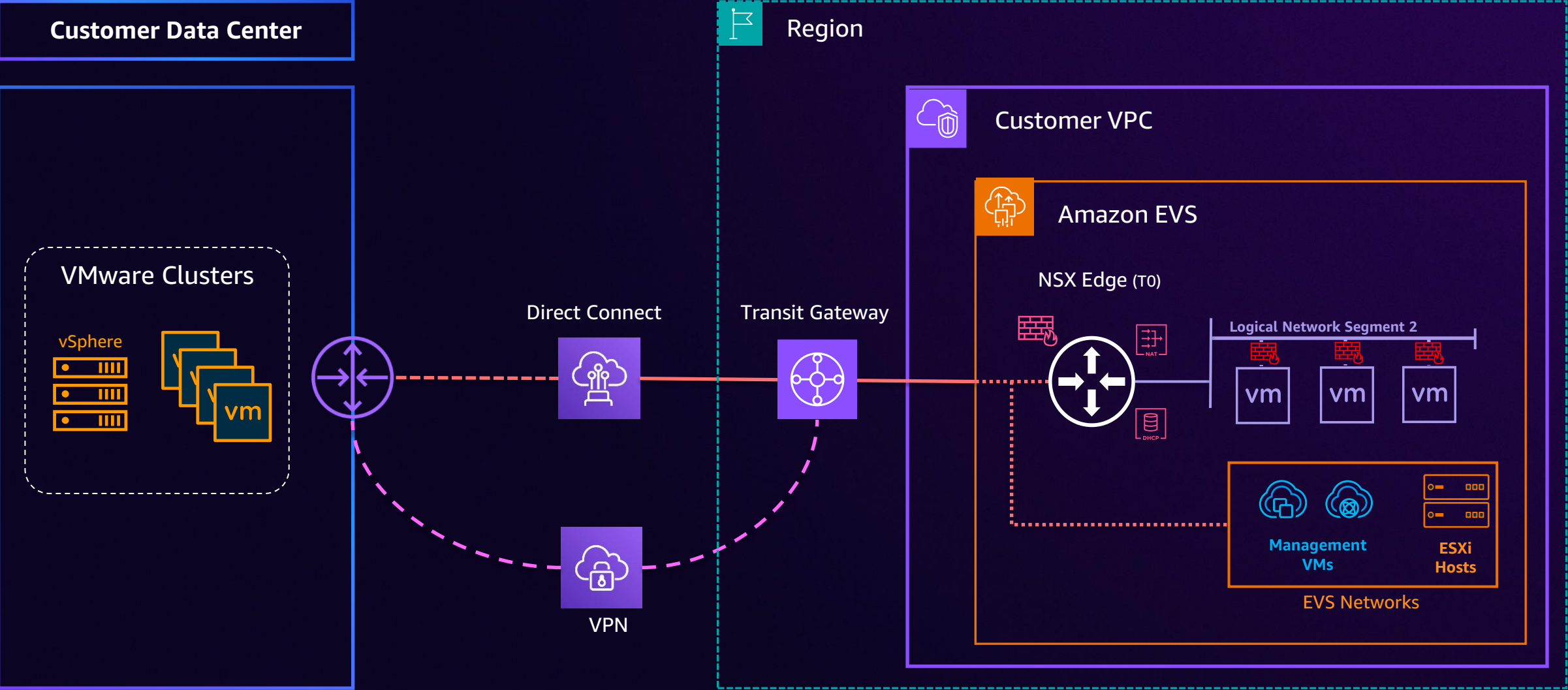
**AWS Transit Gateway:** Connects VPCs and on-premises networks through a central hub; it acts as a cloud router – each new connection is made only once

**AWS Direct Connect:** A cloud service that creates a dedicated network connection from your premises to AWS



**Direct Connect gateway:** A global service that supports communication between transit virtual interfaces (VIF) and transit gateways

# Amazon EVS on-premises connectivity

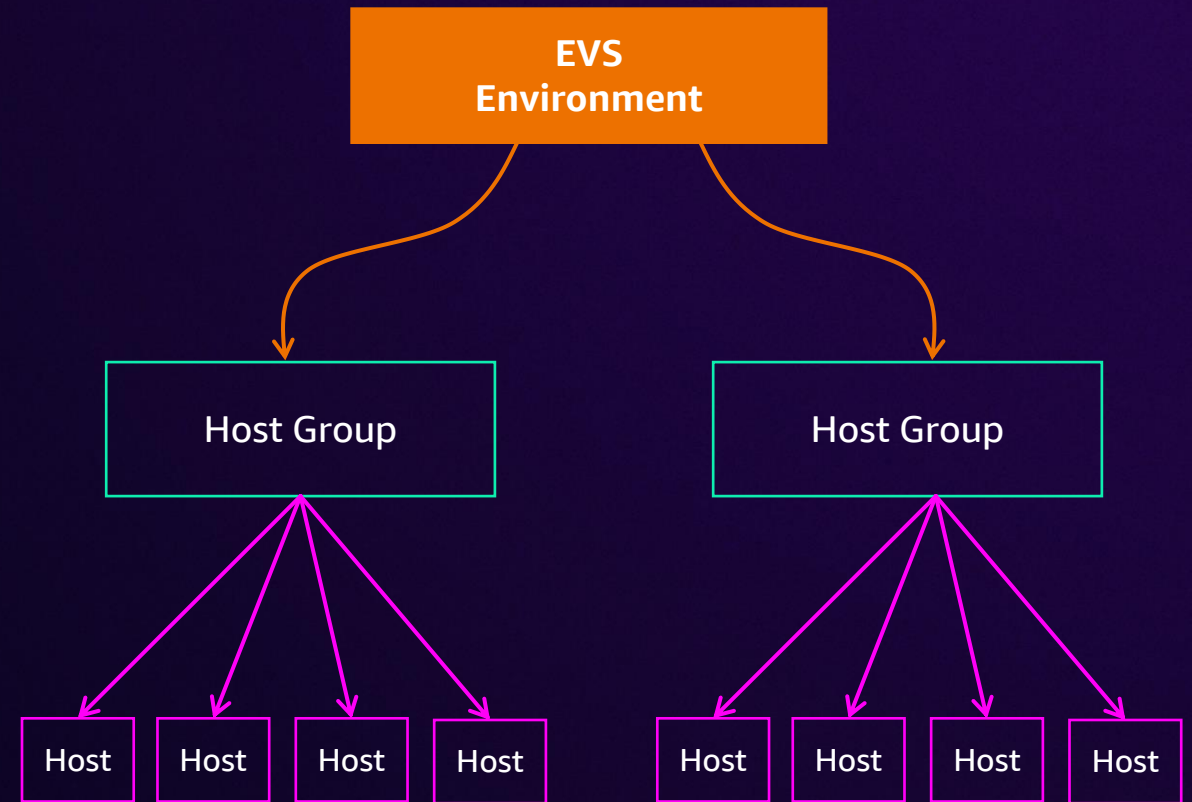


# Amazon EVS building blocks

A virtualization environment is a logical container for all the resources related to a VCF deployment.

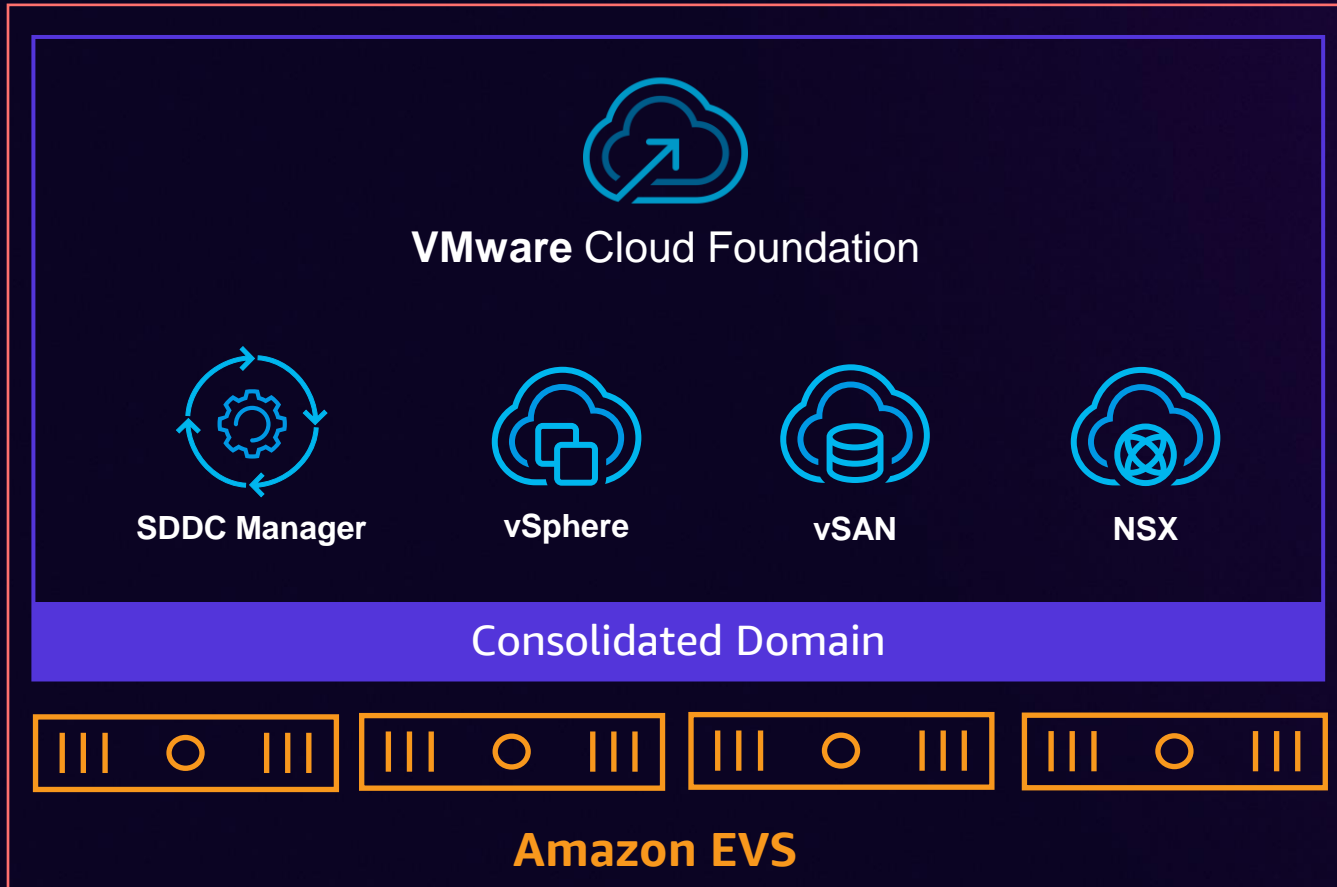
A host group defines network and server settings that the service uses to deploy hosts.

Amazon EVS runs on dedicated, single-tenant, bare-metal ESXi hosts.





# Amazon EVS software stack



- **Host Groups:** Maximum of 1 host group at launch
- **Hosts:** Minimum of 4 x EVS Hosts based on VCF requirements
- **VMware Cloud Foundation:** Standard off-the-shelf VCF 5.2.1 deployed using VMware Cloud Builder
  - Only consolidated Amazon EVS domain is supported
  - vSphere, vSAN and NSX are configured automatically as part of VCF deployment

# Want to learn more?

ADDITIONAL AMAZON EVS RESOURCES



[VMware Elastic  
VMware Service Blog](#)

Service  
Announcement



[VMware Elastic  
VMware Service Site](#)

Service Site

# Thank you!

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X @virtualisto

**Sean Lambert**

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