Specialized Infrastructure

Agenda

- AWS Local Zones

- AWS Wavelength Zone

- AWS Outposts

- VMware Cloud on AWS
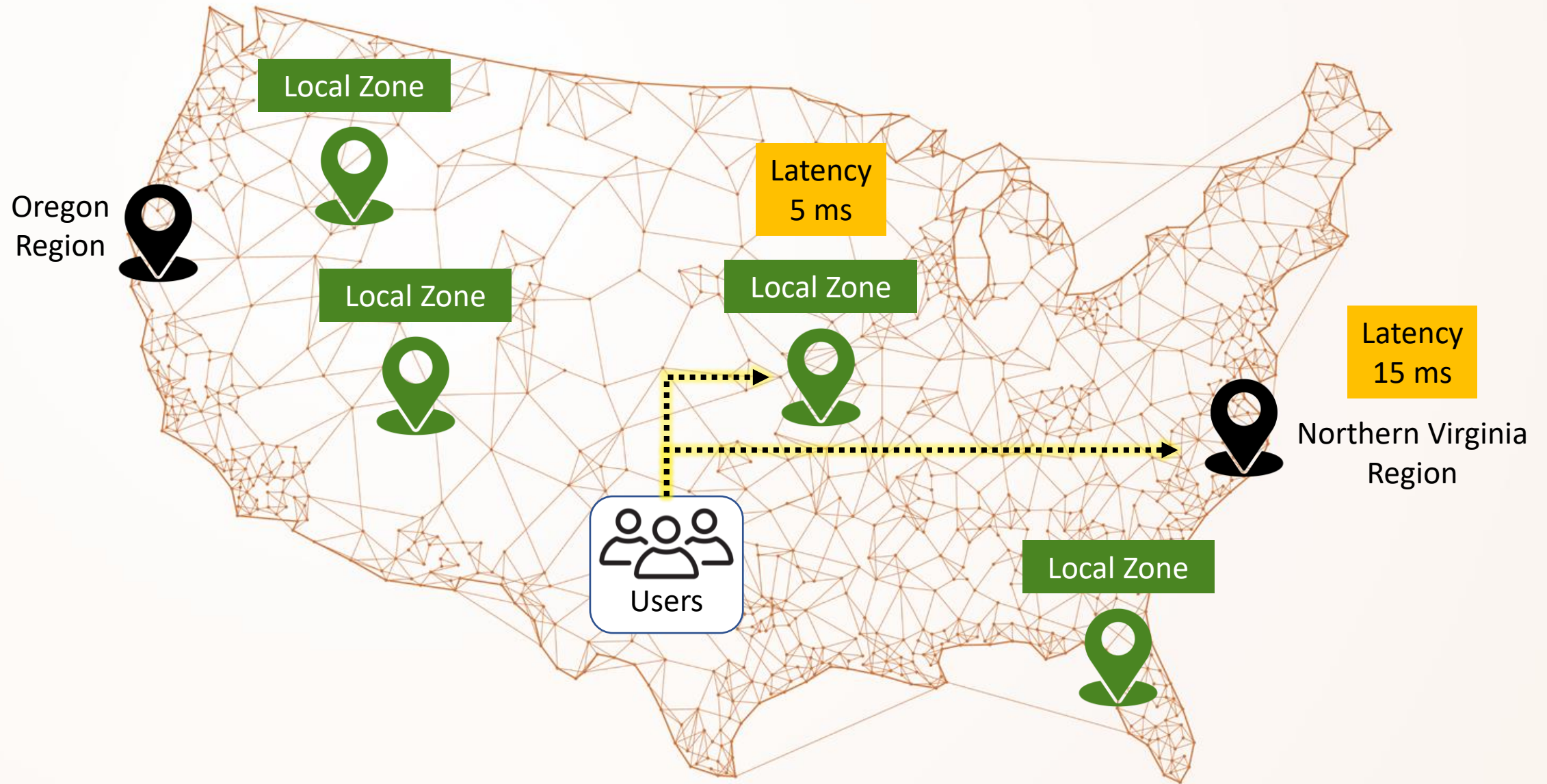
Cloud continuum - ever expanding AWS Cloud

Region

Edge Locations

AWS Local Zones

AWS Wavelength

AWS Outposts family

AWS Local Zones

AWS Local Zones

AWS Local Zones

- AWS Local Zones are a type of infrastructure deployment that places core services (compute, storage, database), and other select AWS services close to large cities.

- Local Zones are an extension of a region (parent region) and are located close to large population, industry and IT centers.

- It connects to a parent region via Amazon's redundant and high bandwidth network giving applications running in AWS Local Zones access to the rest of AWS services.

AWS Local Zones

AWS Wavelength Zones
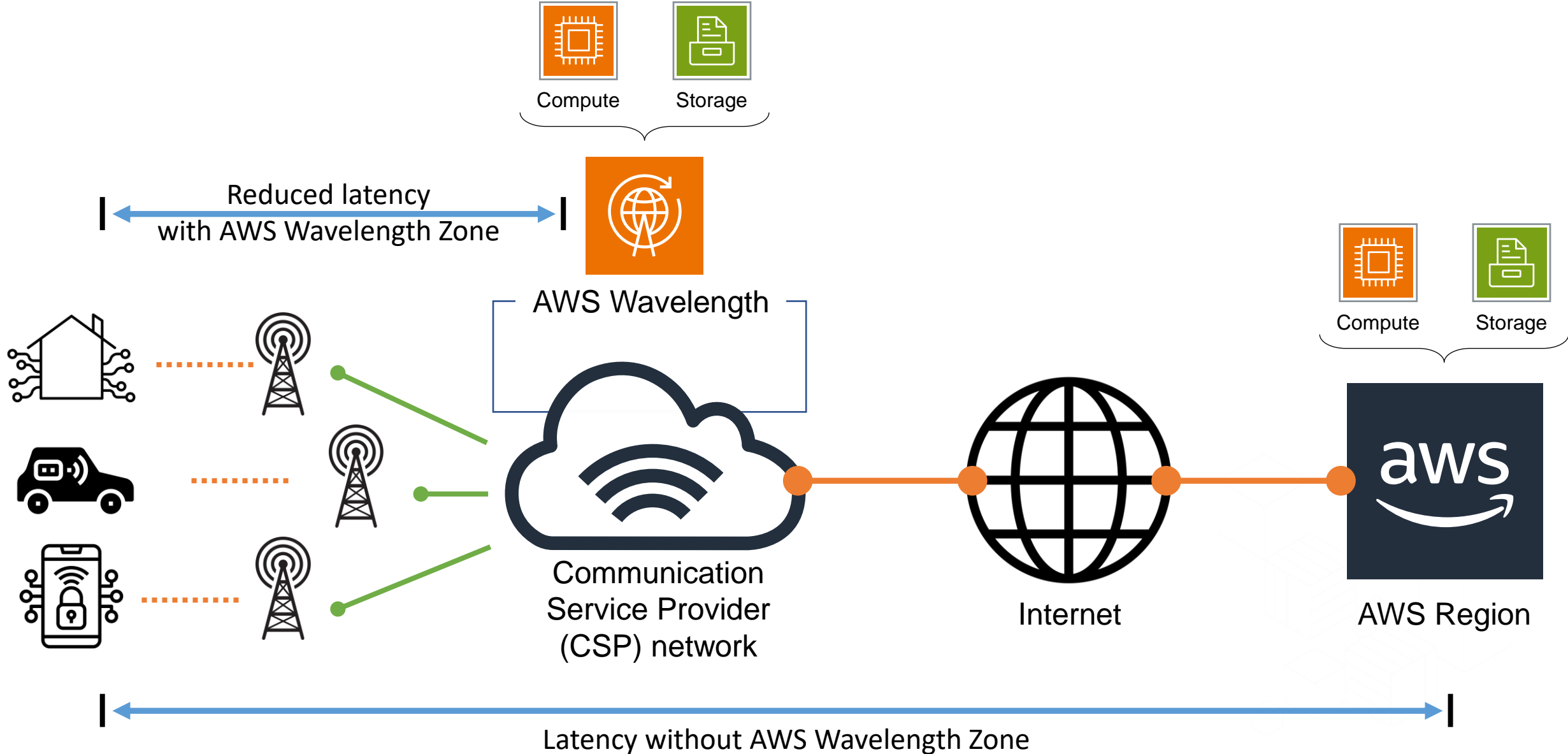
AWS Wavelength Zones

- AWS Wavelength is an infrastructure offering optimized for mobile edge computing applications.

- Wavelength Zones are AWS infrastructure deployments that embed AWS compute and storage services within telecommunications providers' data centers at the edge of the 5G network.

AWS Wavelength

AWS Wavelength Zone

AWS Outposts

AWS Outposts

- AWS Outposts solutions allow you to extend and run native AWS services on premises.

- You can run some AWS services locally and connect to a broad range of services available in the local AWS Region.

- It is available in a variety of form factors, from 1U and 2U Outposts servers to 42U Outposts racks, and multiple rack deployments.

AWS Outposts rack   AWS Outposts servers

AWS Outposts

- Use Cases
  - Low latency compute
  - Data residency
  - Local data processing

- AWS Outposts is not private cloud; it's the extension of the AWS Region into your facility.

- Use the same hardware infrastructure, APIs, tools, and management controls available in the cloud to provide a truly consistent experience.

Getting started…

Order
From the AWS Management Console, select your AWS Outposts configuration and compute services

Install
Install an AWS Outposts server with either onsite personnel or a third-party contractor, and once it's connected to your network, AWS will remotely provision your resources

Launch
Use standard AWS APIs or the AWS Management Console to launch Amazon EC2 instances on an AWS Outposts server
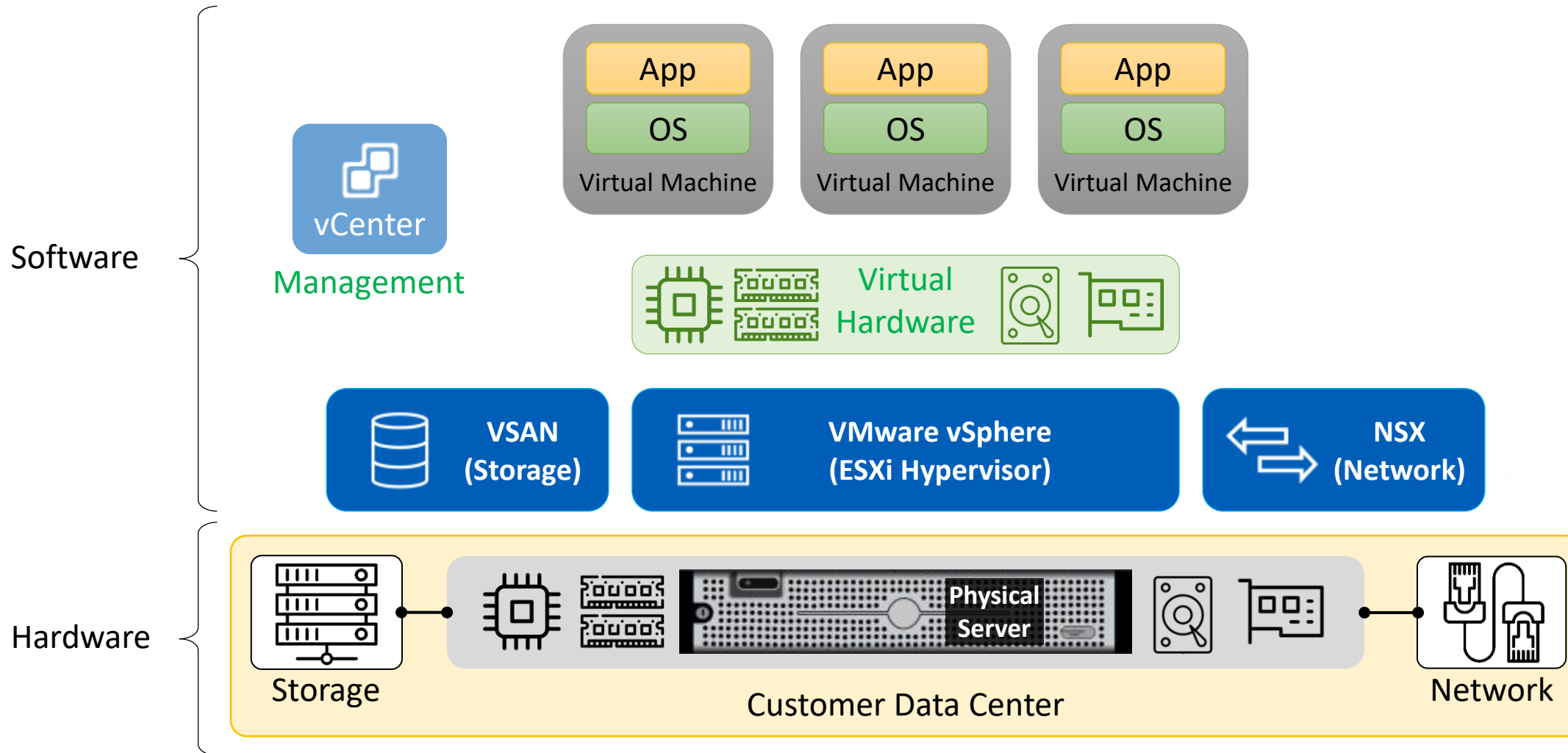
- You can launch AWS services including Amazon EC2 for compute, Amazon VPC for networking, and Amazon ECS for containers.

- When your Outposts server is installed and is visible in the AWS Management Console, AWS will monitor it as part of the public Region and will automatically execute software upgrades and patches.

VMware Cloud on AWS

VMware Software Defined Data Center (SDDC)

VMware Cloud on AWS (VMC on AWS)