Data Domain Cloud Disaster Recovery for VMware Cloud on AWS
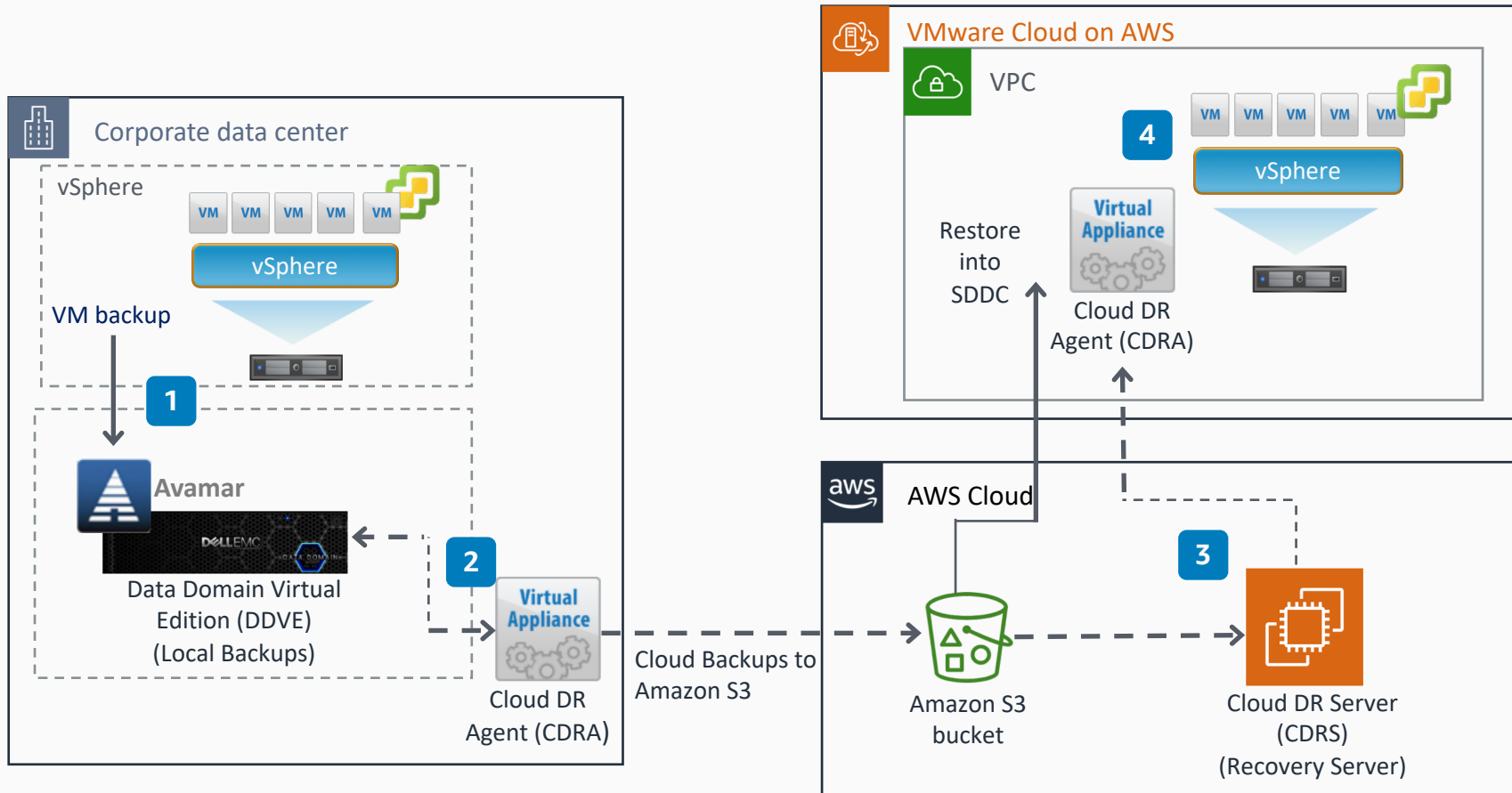## Fully Automated DR Solution for VMware Cloud on AWS with low RTO and RPO

VMware Cloud on AWS

VPC

Restore into SDDC

4

vSphere

Virtual Appliance

Cloud DR Agent (CDRA)

Corporate data center

vSphere

VM backup

vSphere

1

Avamar

Data Domain Virtual Edition (DDVE) (Local Backups)

2

Virtual Appliance

Cloud DR Agent (CDRA)

Cloud Backups to Amazon S3

AWS Cloud

Amazon S3 bucket

3

Cloud DR Server (CDRS) (Recovery Server)

1 Avamar performs regular backups of virtual machines (VMs) locally based on policies defined by administrators. If localized failures occur, VMs are restored from backups that are stored in Data Domain Virtual Edition (DDVE) storage.

2 Each local backup of VM is also duplicated in the AWS Cloud. Cloud DR Agent (CDRA) creates a secondary backup copy of the VM image in an Amazon S3 bucket owned by the customer.

3 Cloud DR Server (CDRS) is the main backup and restore orchestrator. It runs on an Amazon EC2 instance in customer's AWS account and keeps track of all backup activity. In response to a DR scenario, CDRS pulls the backed up VM images from Amazon S3 and restores them in VMware Cloud on AWS software-defined data center (SDDC) based on predefined restore policies.

4 CDRS restores VMs to an existing VMware vCenter environment. The VMs resume normal operations immediately.

AWS Reference Architecture