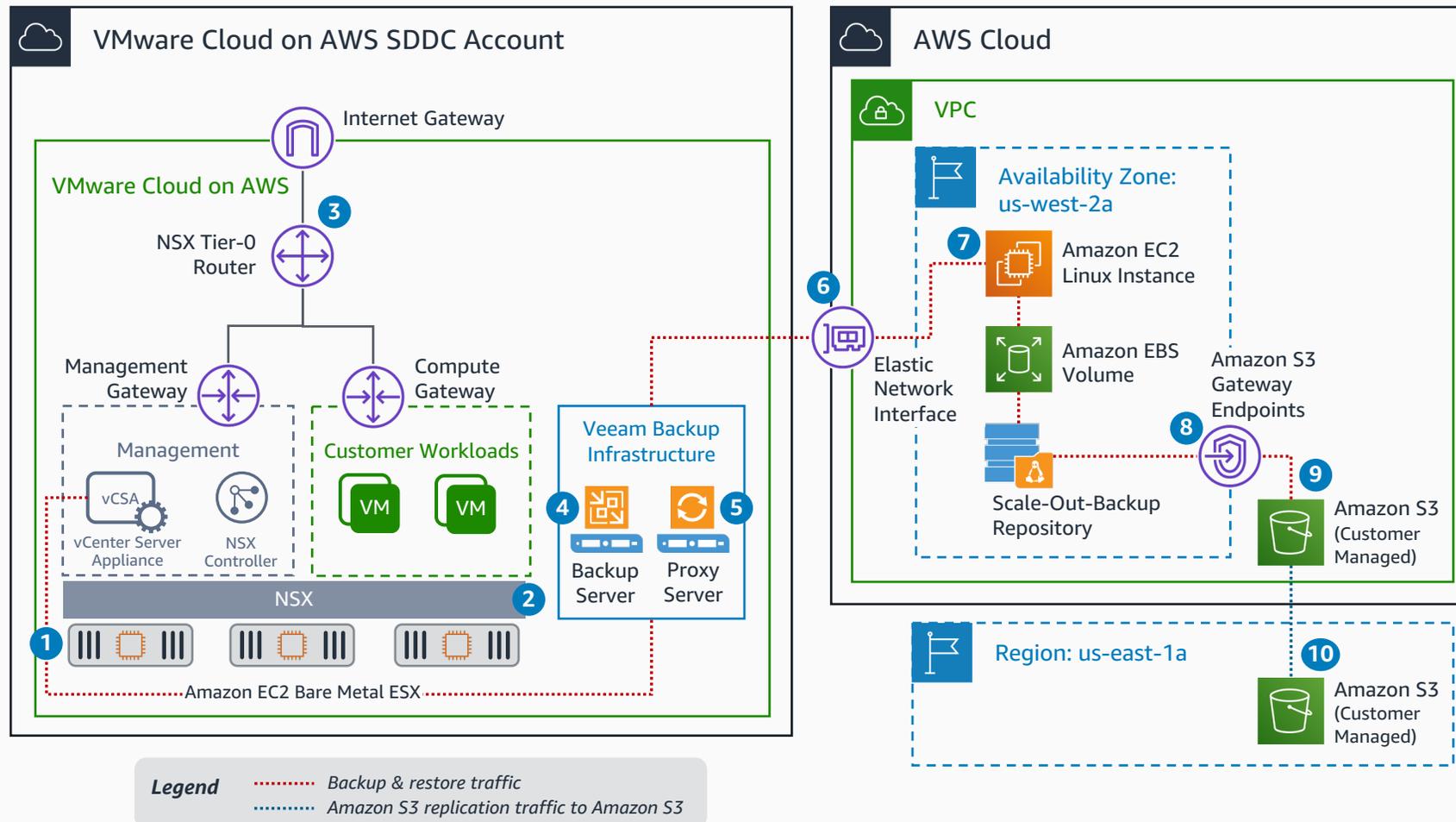# Veeam Backup on VMware Cloud on AWS

Repository options for storing backup data with Veeam using native AWS Cloud storage (Amazon EC2, Amazon EBS & Amazon S3) on the VMware Cloud platform.

Legend
- ········· Backup & restore traffic
- ········· Amazon S3 replication traffic to Amazon S3

1. Bare metal Amazon Elastic Compute Cloud (Amazon EC2) instances running vSphere ESXi provide compute and VSAN flash storage for the workloads running on VMware Cloud on AWS.

2. NSX is the overlay network for VMware Cloud on AWS. It provides compute and management connectivity for workloads that run in the configured platform.

3. NSX Tier-0 router sends traffic from the compute & management gateways through the internet gateway for external connectivity.

4. Veeam backup server is deployed as a VM in the VMC cluster. It manages backups, backup job scheduling, resource allocation, recovery verification, restore tasks, and the backup infrastructure.

5. Veeam proxy server processes backup and restore jobs and delivers the backup traffic through the ENI to AWS storage repositories.

6. Elastic Network Interface (ENI) provides fast, low-latency connections between the SDDC and the Amazon Virtual Private Cloud (Amazon VPC). Backup traffic goes through the ENI to the backup repositories in the AWS Cloud.

7. Daily Veeam server backups are stored on Linux-based repository servers with Amazon Elastic Block Store (Amazon EBS) storage attachments in one Availability Zone in the VPC in the Region. Repositories are configured as *scale-out-backup* to allow data offload from the attached Amazon Elastic Block Storage (EBS) to object storage (S3) to optimize costs.

8. Amazon Simple Storage Service (Amazon S3) gateway endpoints provide private access to the storage gateway service and S3 buckets.

9. Send backups to customer-managed S3 buckets. Configure by setting policies on the scale-out-backup repository to move data to the S3 in the Region.

10. Replicate backup files offsite to an S3 bucket in another Region to store data in a different Region than your workloads (when required).

AWS Reference Architecture