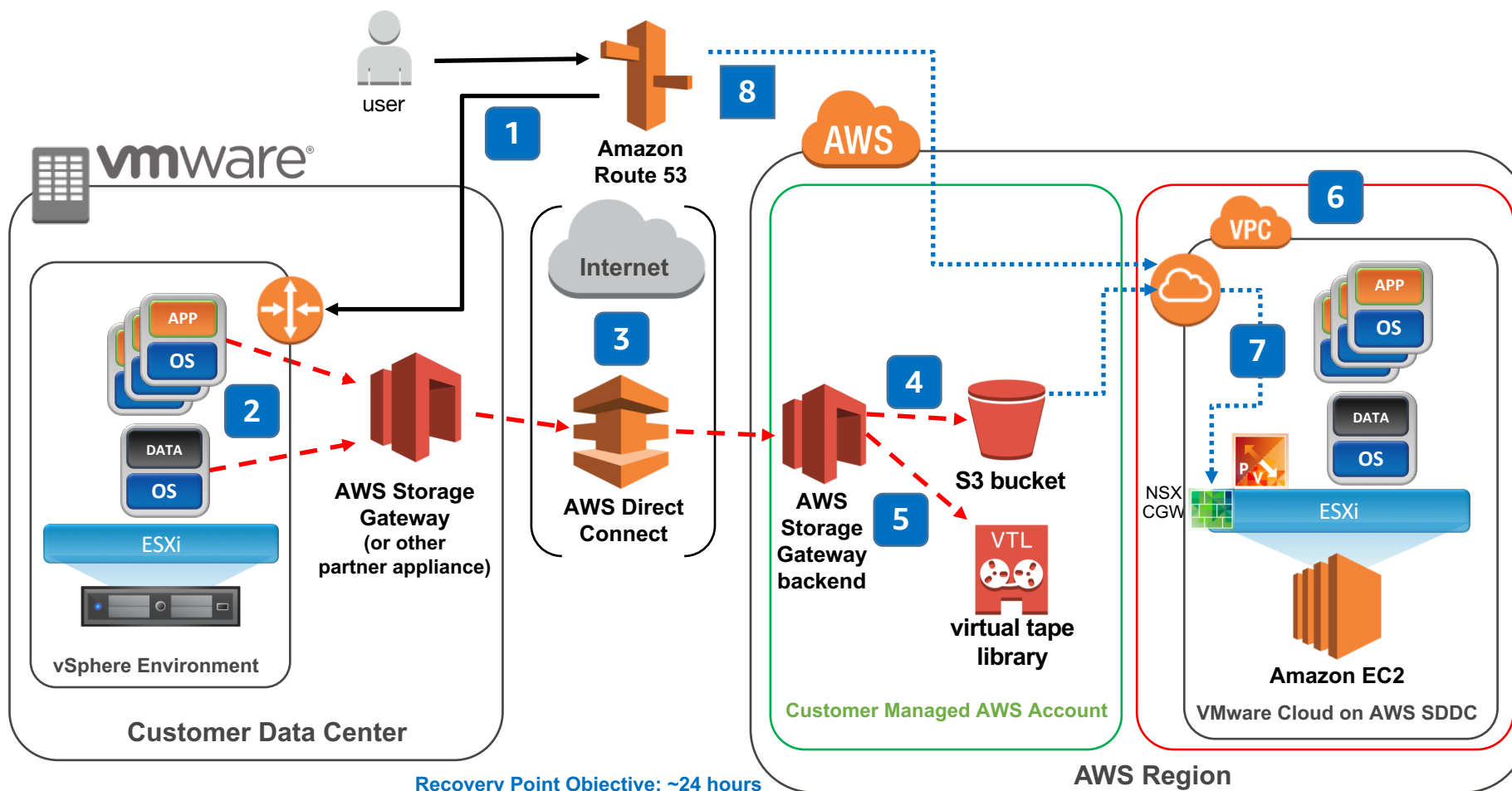


Backup and Restore to VMware Cloud on AWS

Native Services Integration: Storage Gateway, S3, Direct Connect, and Route53

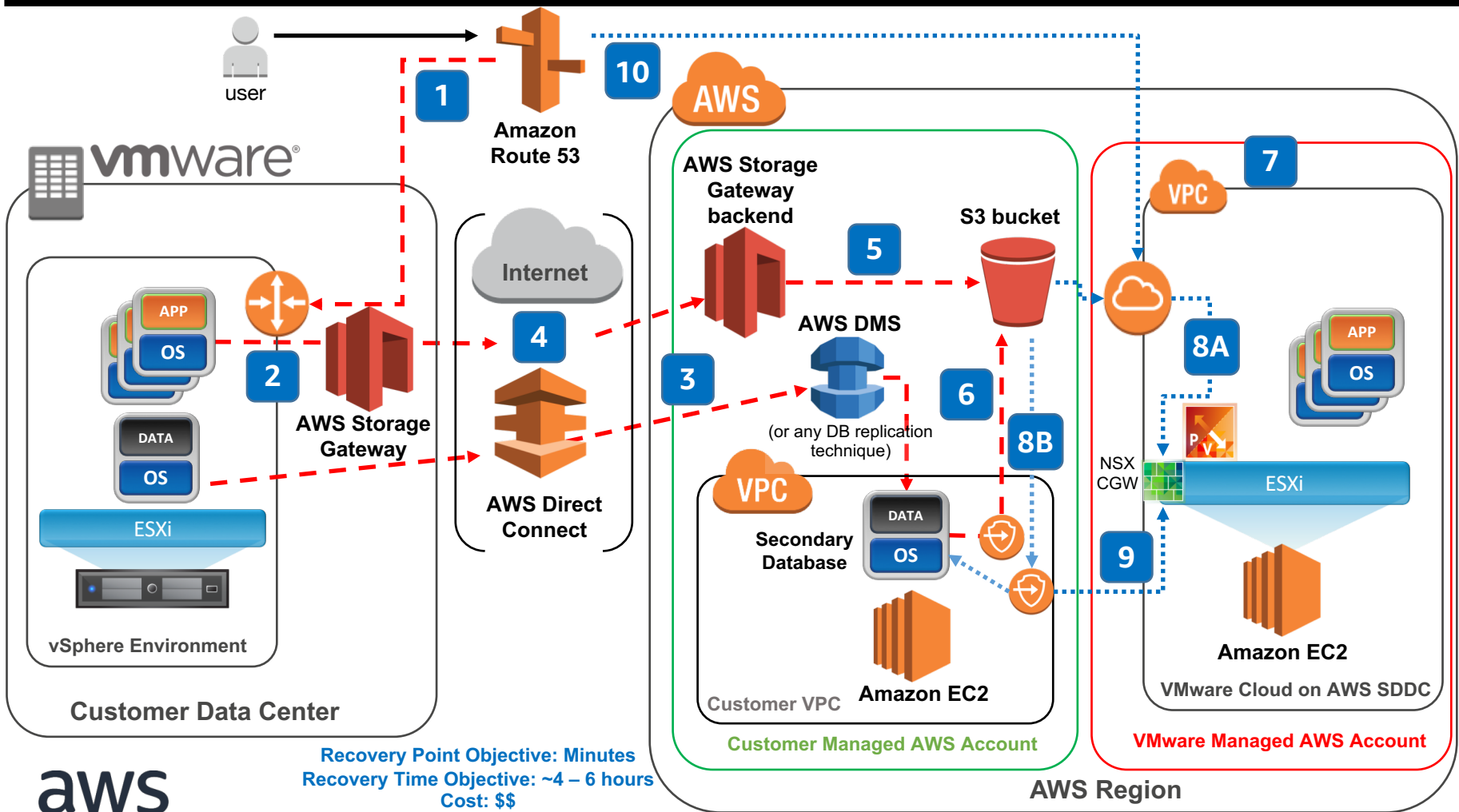


AWS Reference Architecture

- | # | Description |
|---|--|
| 1 | Amazon Route 53 routes DNS requests to the primary domain controller on-premises. |
| 2 | VM and application backups are stored in Amazon S3 using an AWS Storage Gateway or other storage appliance using a partner-integrated solution or application-level backup software. |
| 3 | The on-premises Storage Gateway securely transfers the backup data to the Storage Gateway backend using Direct Connect or through an SSL Internet connection. |
| 4 | File gateway uses an AWS Identity and Access Management role to access the customer backup data and securely store it in Amazon S3. |
| 5 | Use the virtual tape library configuration in the Storage Gateway for long term data archiving to AWS Glacier or other archive service. |
| 6 | The recovery process starts by launching and configuring a VMware SDDC cluster in AWS with the web portal or through automation scripts using AWS CloudFormation, VMware vRA, or vCLI. |
| 7 | After VMware Cloud on AWS SDDC is ready, deploy the software to restore the backed up application and VM data from Amazon S3. |
| 8 | The final recovery step is updating the Route 53 DNS records to route new requests to secondary domain controller in AWS. |

Pilot Light on VMware Cloud on AWS

Native Services Integration: Storage Gateway, EC2, S3, DMS, Direct Connect, and Route53



AWS Reference Architecture

- | # | Description |
|----|--|
| 1 | Amazon Route 53 routes DNS requests to the primary domain controller at the customer data center. |
| 2 | VM and application backups are stored in Amazon S3 using an AWS Storage Gateway or another storage appliance or software backup solution. |
| 3 | AWS Database Migration Service (DMS) replicates data from primary database to secondary database in AWS. |
| 4 | Storage Gateway and DMS connect to the backend AWS services endpoints over Direct Connect or the Internet. |
| 5 | File gateway uses an AWS Identity and Access Management role to access the customer backup data and securely store it in Amazon S3. |
| 6 | Single point-in-time backups can be created on the secondary database using EBS snapshots stored in S3. |
| 7 | The recovery process starts by launching and configuring a VMware SDDC cluster in AWS with the web portal or through automation scripts using AWS CloudFormation, VMware vRA, or vCLI. |
| 8 | After VMware Cloud on AWS SDDC is ready, retrieve backed up data using (A) public S3 endpoint or (B) VMware endpoint using S3 VPC endpoint. |
| 9 | Recovered applications in VMware SDDC directly connect to the secondary database through VMware endpoints. |
| 10 | The final recovery step is updating the DNS records to route new requests to the secondary domain controller in AWS. |