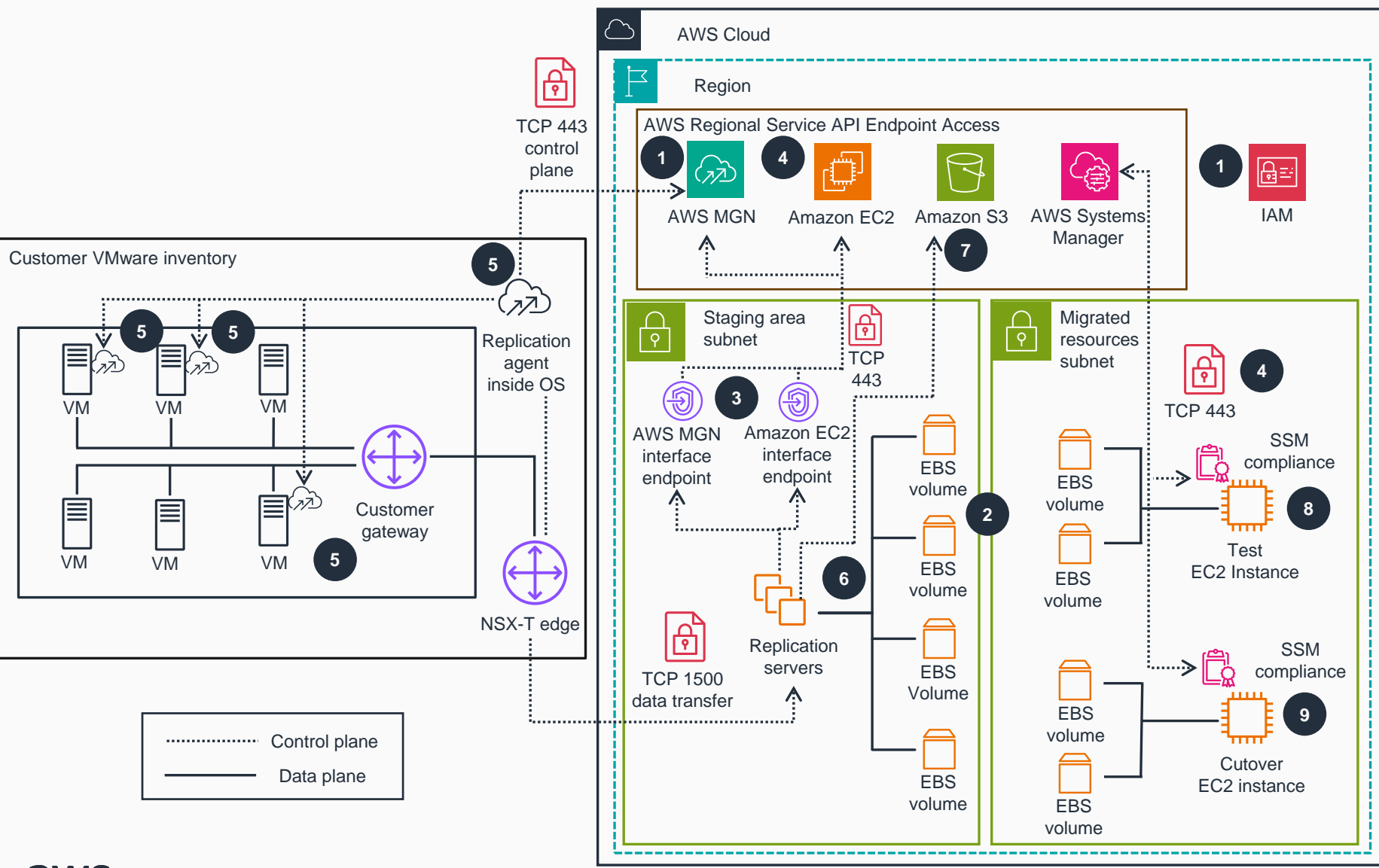


Guidance for Migrating VMware Virtual Machines to Amazon EC2

This architecture diagram demonstrates how to use AWS MGN to migrate VMs to Amazon EC2 at scale and without requiring any changes.



- 1 Initialize **AWS Application Migration Service (AWS MGN)** with the required **AWS Identity and Access Management (IAM)** permissions.
- 2 Follow Network Settings preparations to create **Amazon Virtual Private Cloud (Amazon VPC)** subnets to use for your replicated, test, and cutover **Amazon Elastic Compute Cloud (Amazon EC2)** instances along with the respective security groups.
- 3 Create **Amazon VPC** interface endpoints to connect privately to the **Amazon EC2** and **AWS MGN** APIs. Confirm that the security group attached to the **VPC** endpoints allows ingress traffic on port 443.
- 4 Create post-launch actions in **AWS MGN** to install the **AWS Systems Manager (SSM)** agent and uninstall no longer needed VMware tools from Windows and Linux **EC2** instances.
- 5 Add source servers to **AWS MGN** by installing the AWS Replication Agent over TCP port 443 on each individual VM to begin the initial synchronization process.
- 6 The AWS Replication Agents open an outbound connection over TCP port 1500 from the source servers to the replication servers. These communications must be allowed by the customer gateway and VMware NSX-T edge gateway. The replication servers copy the source volumes into **Amazon Elastic Block Store (Amazon EBS)** volumes.
- 7 The replication servers call the **Amazon Simple Storage Service (Amazon S3)** API to retrieve software component and configuration.
- 8 Launch a test **EC2** instance for each source server that is "ready for testing" in the **AWS MGN** console. Validate and test the **EC2** instances and verify the post-launch actions.
- 9 After testing and validation completion, launch cutover instances and finalize the migration.

