

AWS Application Migration Service (AWS MGN)

Dola Adesanya February 27th, 2025

What is **Application Migration Service**

Primary migration service recommended for lift-and-shift migrations (previously known as *Cloud Endure Migration*)

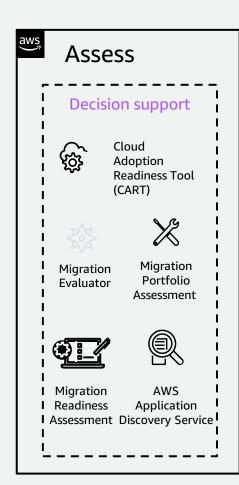
A highly automated lift-and-shift solution

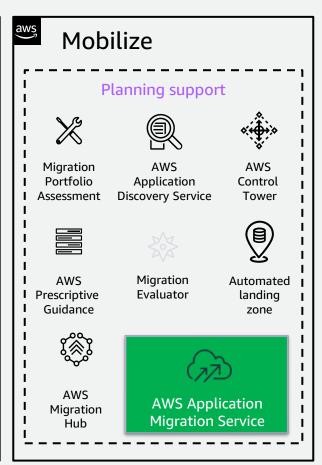
Allows migrating physical, virtual and cloud servers to AWS

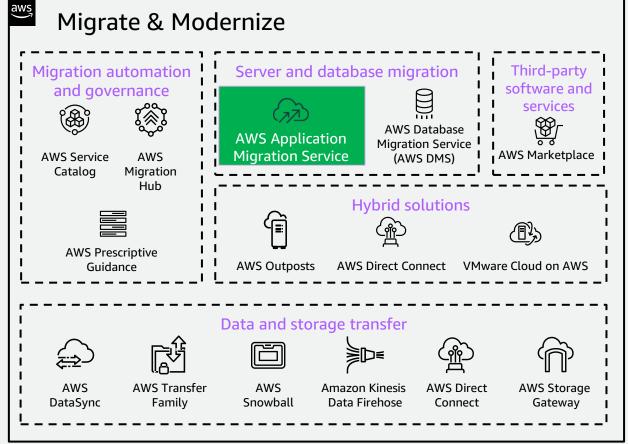
Simplifies, expedites and reduces the cost of migrating servers and applications



Broadest and deepest set of migration capabilities









Application Migration Service benefits

Simplify, expedite, and reduce the cost of migrating your applications to AWS

Flexible



Migrate from any source



Wide range of OS, application, and database support



Suitable for largescale migrations

Reliable



Robust, predictable, nondisruptive continuous replication



Short cutover windows with minimal downtime



Highly secure

Highly automated



Minimal skill set required to operate



Easy, nondisruptive tests prior to cutover



Easily plugs into migration factories and cloud COEs



Wide platform support*

ORACLE ORACLE SAP Hybris (Y) SAP CRM **PEOPLESOFT** E-BUSINESS SUITE Virtually any Microsoft Microsoft Microsoft application SharePoint **Exchange Server Dynamics CRM Active Directory** SUGARCRM Virtually any **ORACLE** Microsoft **SAP** HANA mongoDB MySQL DATABASE **SQL Server** database **ORACLE** Windows Windows ubuntu° Windows 10 LINUX Workstations Server 2003 x86 operating Windows systems Windows Server 2016 Windows Server 2019 Windows Server 2022 Windows Server 2008 Server 2012 Source Physical data centers Cloud sources infrastructure

^{*} See documentation for a complete list and supported versions



Prerequisites for Application Migration Service

Network

Source	Destination	Port	For more information, see
Source data center	Amazon S3 service URLs	443 (TCP)	Communication over TCP port 443
Source data center	AWS Region-specific console address for Application Migration Service	443 (TCP)	Communication between the source servers and Application Migration Service over TCP port 443
Source data center	Staging area subnet	1500 (TCP)	Communication between the source servers and the staging area subnet over TCP port 1500
Staging area subnet	AWS Region-specific console address for Application Migration Service	443 (TCP)	Communication between the staging area subnet and Application Migration Service over TCP port 443
Staging area subnet	Amazon S3 service URLs	443 (TCP)	Communication over TCP port 443
Staging area subnet	Amazon EC2 endpoint of the subnet's AWS Region	443 (TCP)	Communication over TCP port 443

Source servers

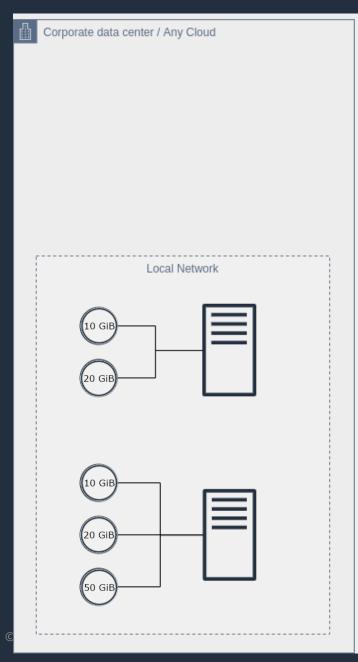
- For a list of supported OS, see https://docs.aws.amazon.com/mgn/latest/ug/Supported-Operating-Systems.html
- Media access control address (MAC address) stability
- Root directory At least 2 GB of free disk space on the root directory (/)
- RAM At least 300 MB of free RAM to run the AWS Replication Agent

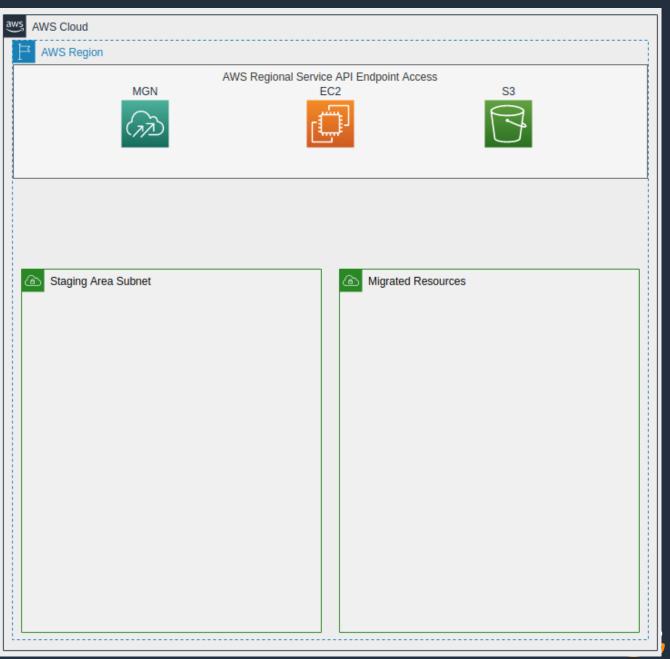
AWS account

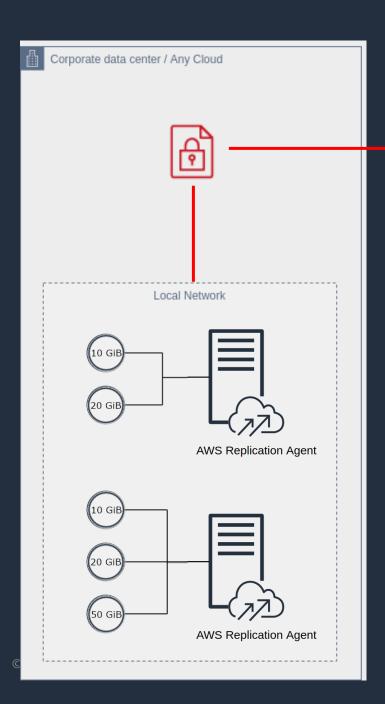
- Application Migration Service initialized
- IAM user
- Amazon S3 interface endpoint
- Application Migration Service interface endpoint
- Amazon EC2 interface endpoint

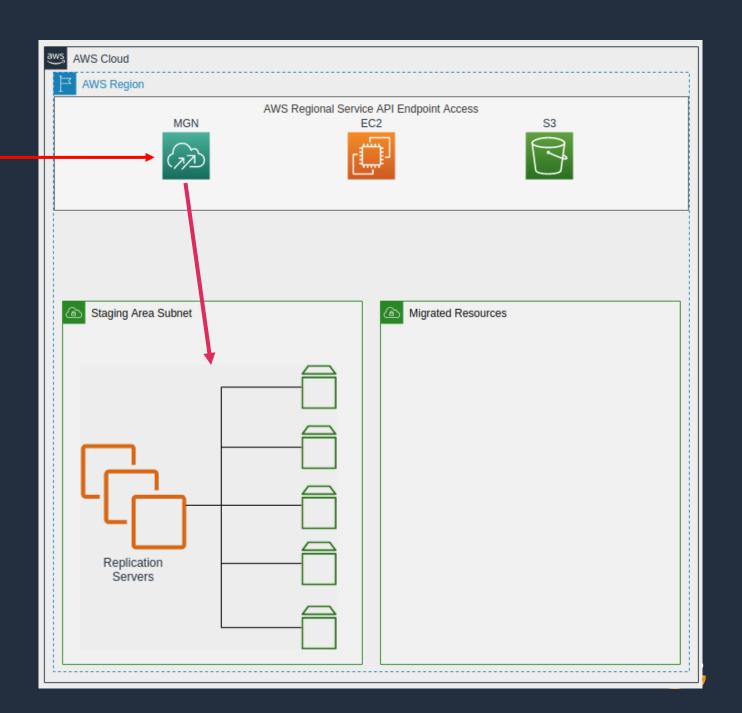


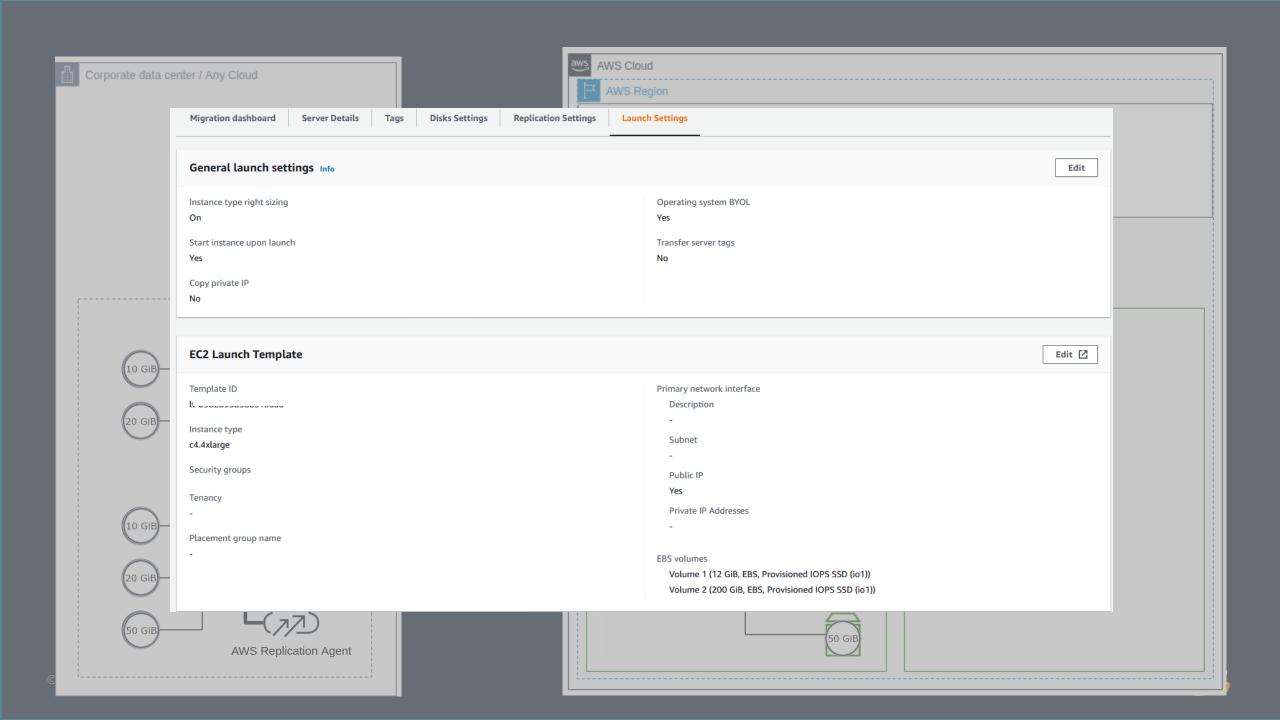
How Application Migration Service works

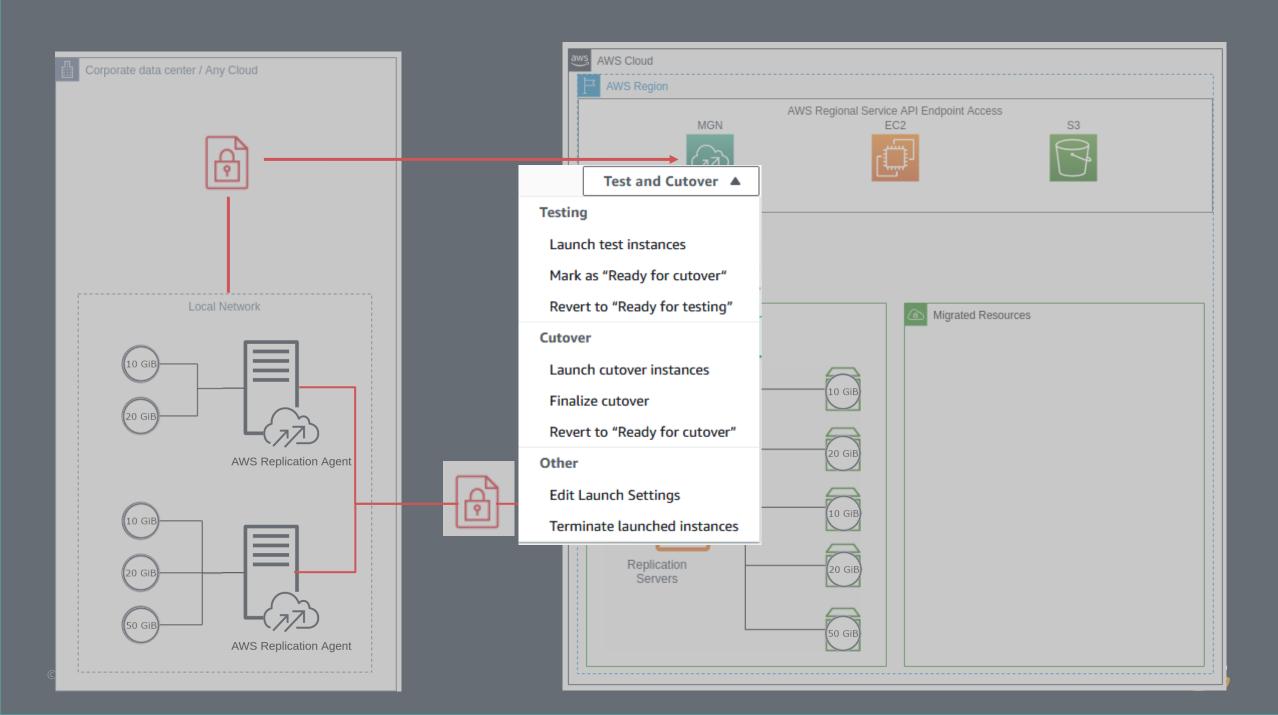


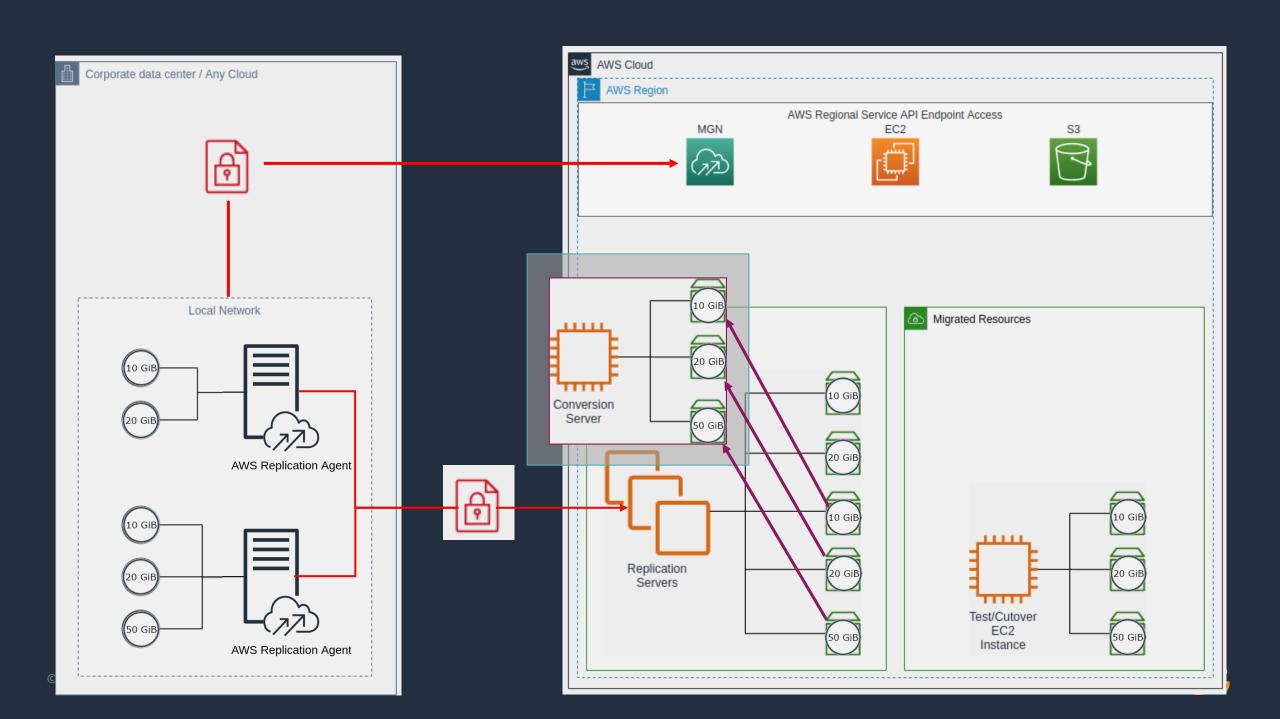




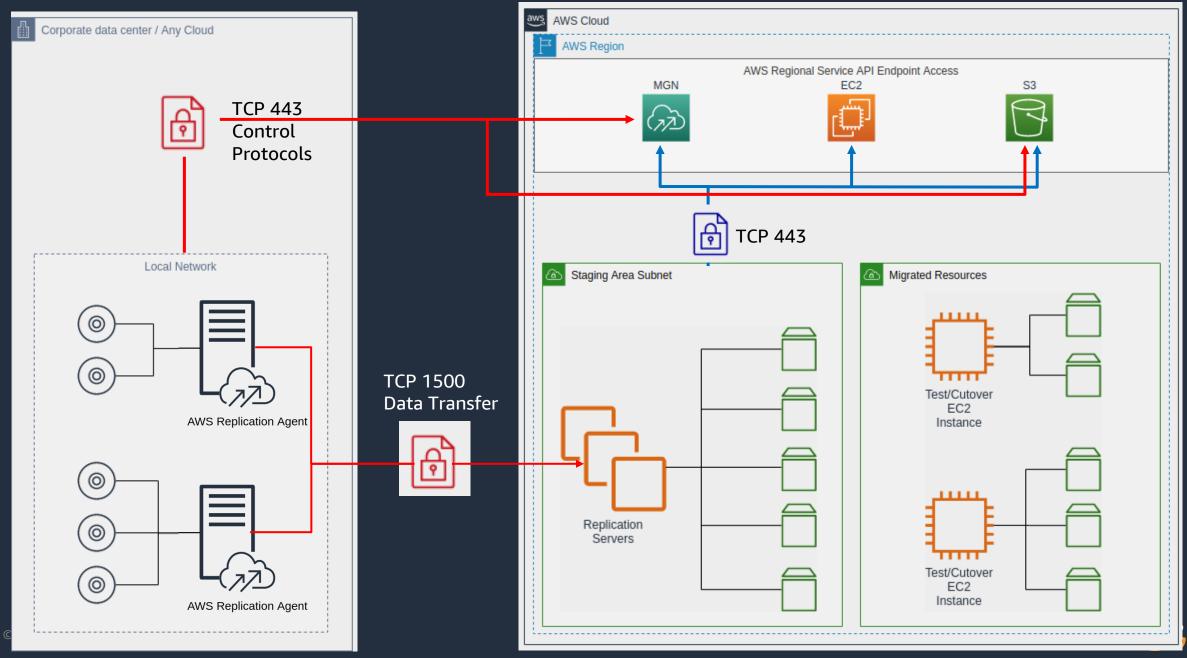




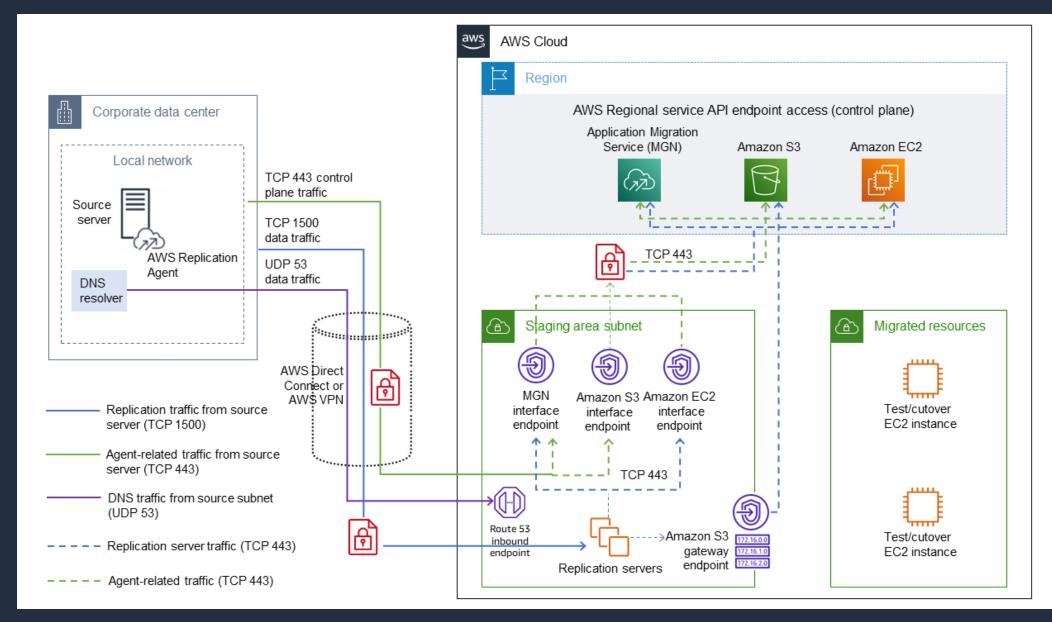




Network Architecture

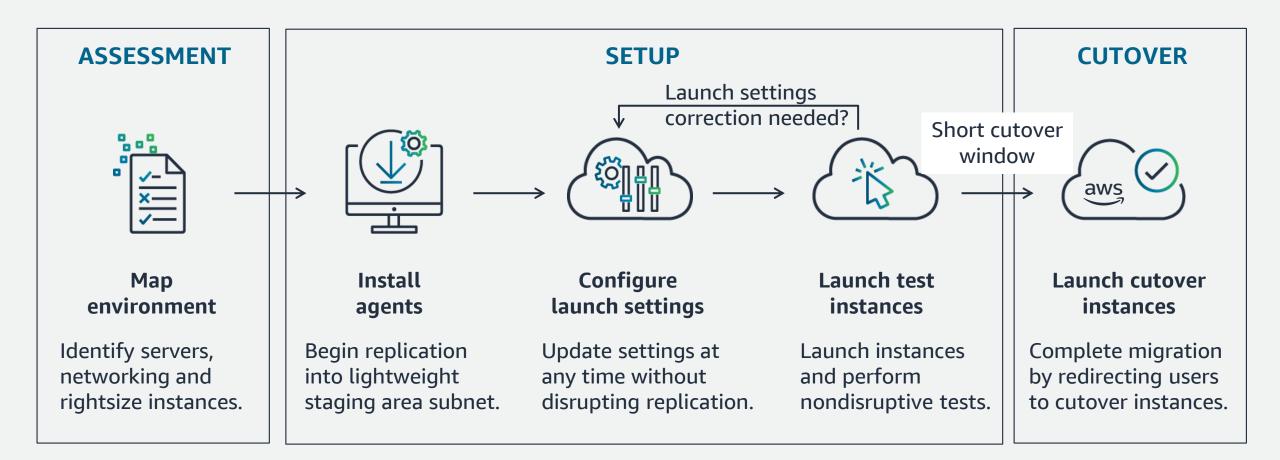


Network Architecture – private subnets





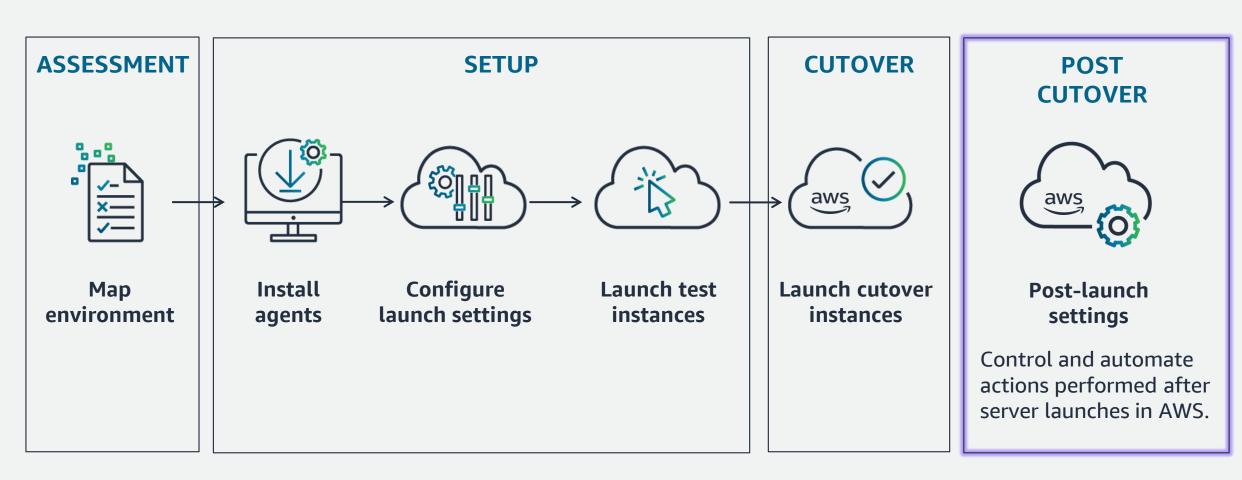
Rehosting: Application Migration Service workflow





Post-launch modernization actions

- Automate execution of any SSM document (provided by AWS or third party)
- Create your own SSM documents, when public documents don't meet your needs

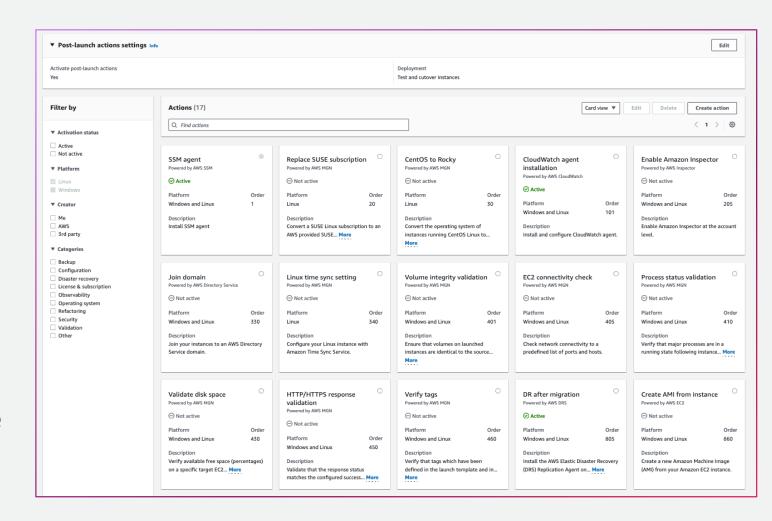




Post-launch modernization actions

AWS Created actions

- Install SSM Agent
- Configure DR after migration
- Enable Refactor Spaces
- Enable Amazon Inspector
- Deploy Amazon CloudWatch
- Convert CentOS to Rocky Linux
- Convert Windows MS-SQL BYOL and SUSE BYOL to AWS License-Included instances
- Upgrade Windows OS (clone Instance and upgrade)
- Create Amazon Machine Image (AMI) from instance
- AD Join domain



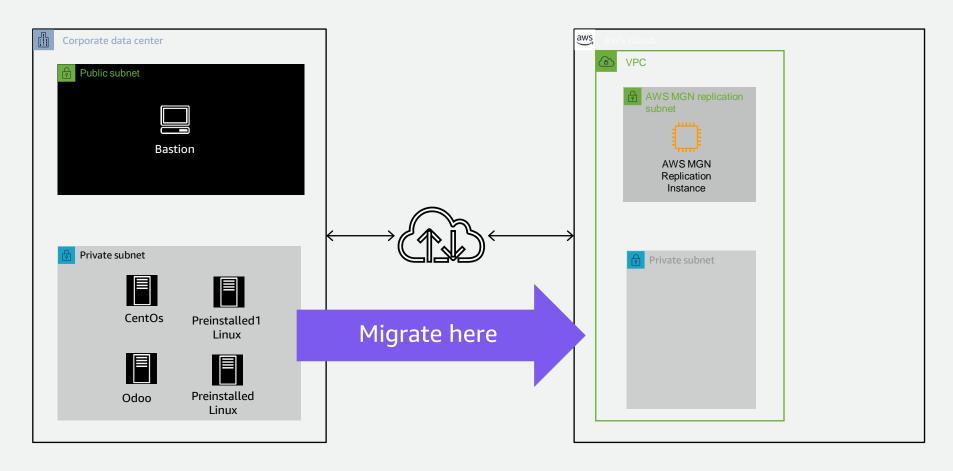




AWS Application Migration Service (AWS MGN)

Lab Overview

Lab Overview







Thank you

Corrections, feedback, or other questions? Contact us at <u>Training and Certification</u>. All trademarks are the property of their owners.