
AWS
re:Invent
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ENT212-R

Understanding the migration journey

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There are many different business drivers



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AWS migration services

Create a case for change

Assess

aws migration evaluator
Formerly TSO Logic

CART/AWS Migration Readiness Assessment (MRA)

Rapid migration business case (RMBC)



Rapid discovery



TCO report

Pre-MRP accelerators



Briefings and workshops



Immersion day

Mobilization through experiences

Mobilize



AWS Migration Hub



Discovery and planning



Landing zone



Skills/center of excellence



Migration experience



Business case/ Migration Evaluator



Migration plan



Operating model



Security and compliance

Accelerate migration at scale

Migrate and modernize



AWS Application Migration Service

Migrate



Operate



Modernize

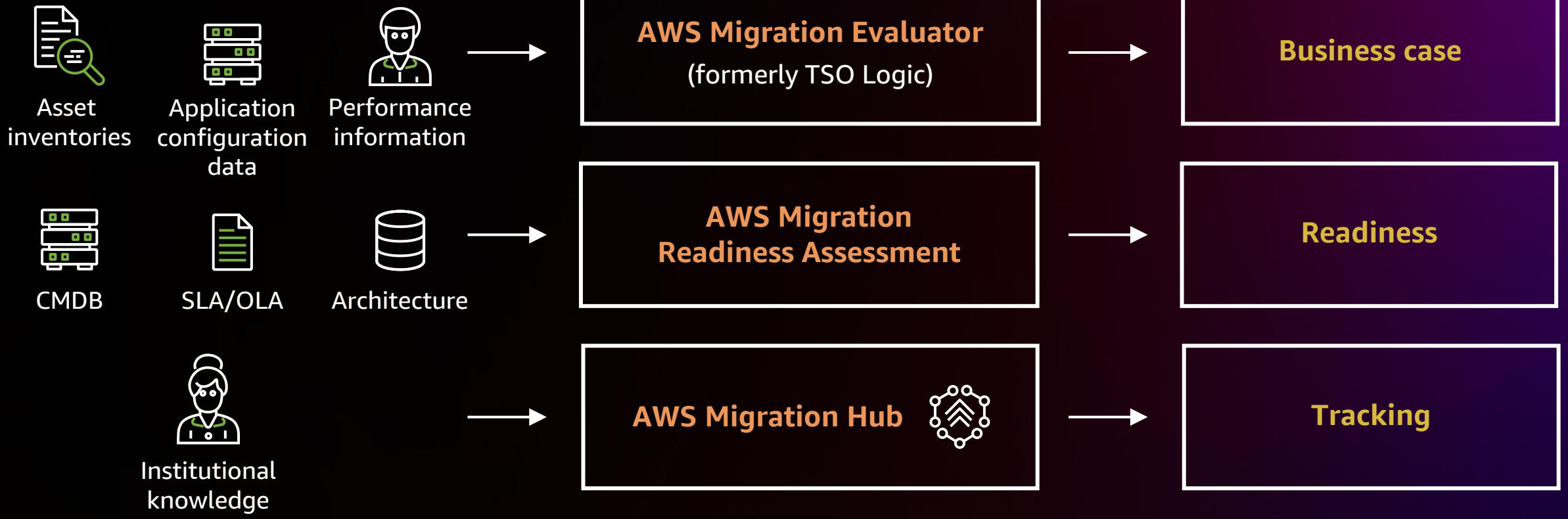


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Assess

Current IT snapshot



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AWS Migration Evaluator: Inventory discovery

AGENTLESS COLLECTOR



- Needs dedicated Windows Server 2012 R2 or greater with local admin rights
- Supports automatic upload of daily inventory and utilization
- Supports data redaction through manual Excel export and upload via AWS Management Console

VMWARE

Communicates with each vSphere virtual appliance

Via the vSphere SOAP API over HTTPS (TCP 443)

Provisioning is persisted along with relationships (VM/host) and time-series usage

HYPER-V

Communicates with each Hyper-V host

Via WMI over TCP port 135 + ephemeral TCP port range (49152–65535)

Provisioning is persisted along with relationships (VM/host) and time-series usage

BARE METALS

Communicates with each server directly through WMI, SNMP v2c, or SNMP v3

SNMP is done over UDP port 161, WMI over TCP port 135 + ephemeral TCP port range (49152–65535)

Provisioning is persisted for Windows machines and time-series usage

SQL SERVER

Communicates with each server directly through T-SQL

Connectivity via TCP port 1433

SQL Server version and edition is persisted against each VMware virtual machine, Hyper-V virtual machine, and bare metal

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Mobilize

Current IT snapshot

Asset inventories

Application configuration data

Performance information

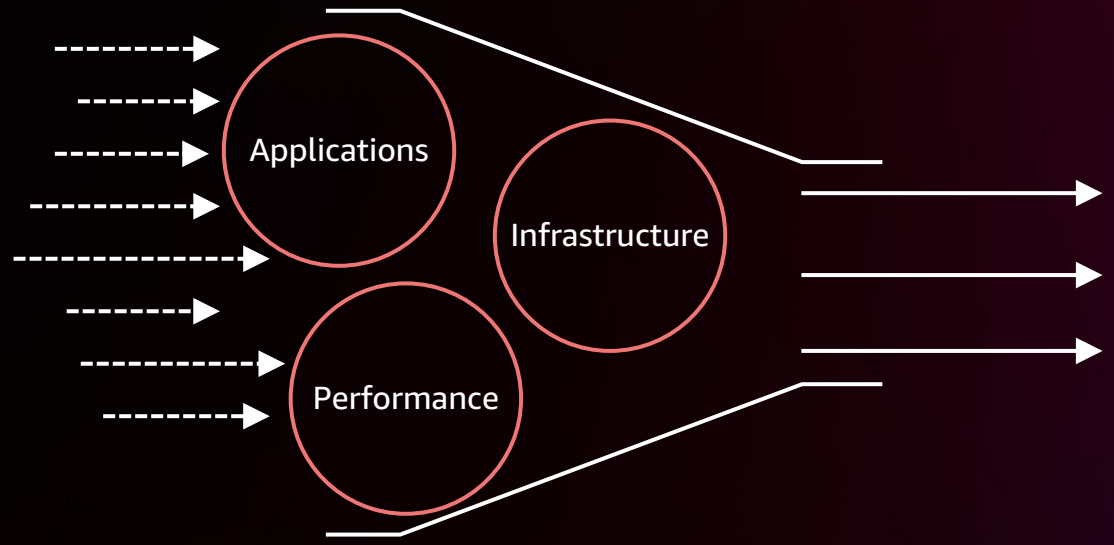
CMDB

SLA/OLA

Architecture

Institutional knowledge

Discover and organize data



Migration strategies for each workload (i.e., 7 Rs)

- Refactor
- Replatform
- Repurchase
- Rehost
- Relocate
- Retain
- Retire

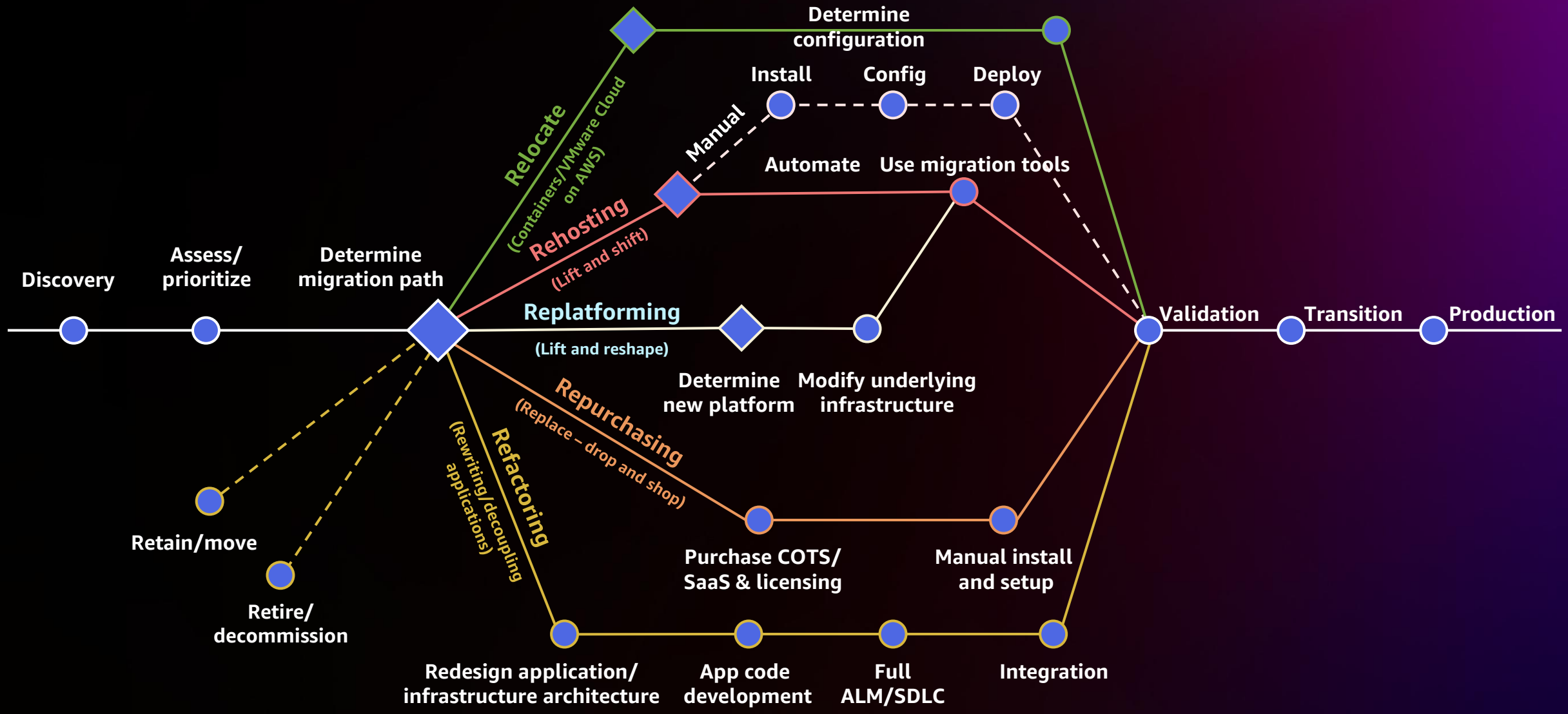
Level of effort

Migration strategy decision criteria should be based on both business and technical needs

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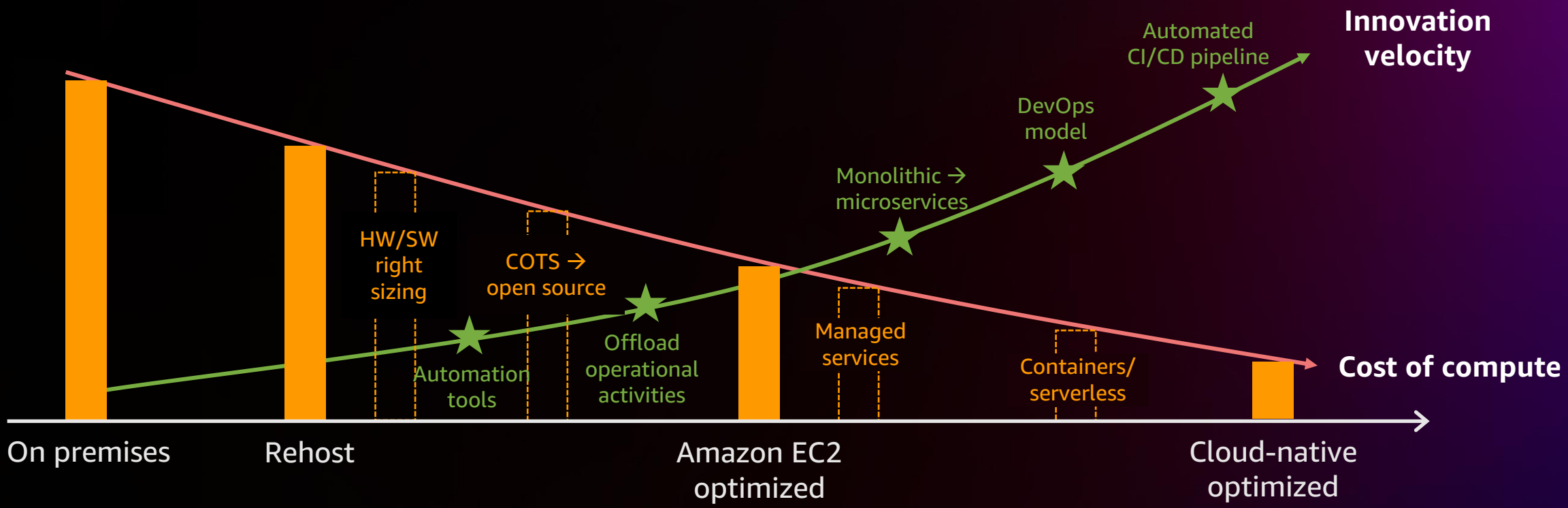
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Application migration strategies



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Migration and modernization journey



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Migrate and modernize using Application Migration Service

Starting with rehost is a fast, cost-effective, and minimally disruptive way to move to the cloud

Move and improve

- Migrate applications to AWS **with or without changes** to applications or workflows
- **Application Migration Service automates** migration to AWS
- You can **start modernizing using Application Migration Service** post-launch actions during cutover
- Access the full range of AWS capabilities to **modernize applications** running on AWS
- Driver for further **migration acceleration**





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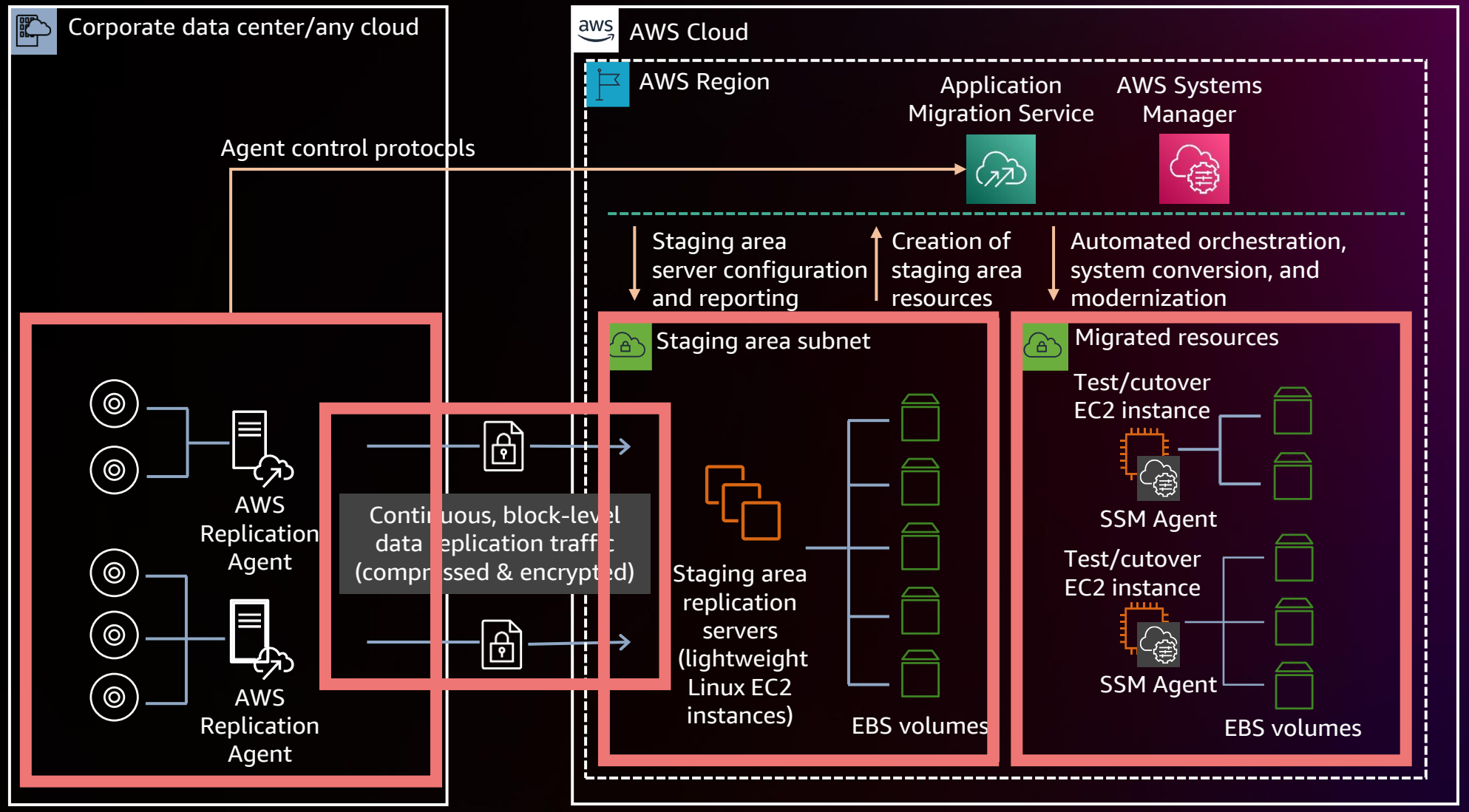
Wide platform support*

Virtually any application	Oracle E-Business Suite, Oracle PeopleSoft, SAP CRM, SAP Hybris, SAP ERP, Apache, SugarCRM, Microsoft IIS, SharePoint, Microsoft Active Directory, Exchange, Microsoft Dynamics CRM
Virtually any database	Microsoft SQL Server, Oracle Database, SAP HANA, MySQL, cassandra, mongoDB.
x86-based operating systems	Red Hat, CentOS, Oracle Linux, ubuntu, debian, SUSE, Windows Workstations, Microsoft Windows Server 2003, Windows10, Windows Server 2008, Windows Server 2012, Windows Server 2016, Windows Server 2019, Windows Server 2022
Source infrastructure	aws, openstack, vmware, Oracle Cloud, vmware | aws, Physical data centers

* See documentation for a complete list and supported versions.

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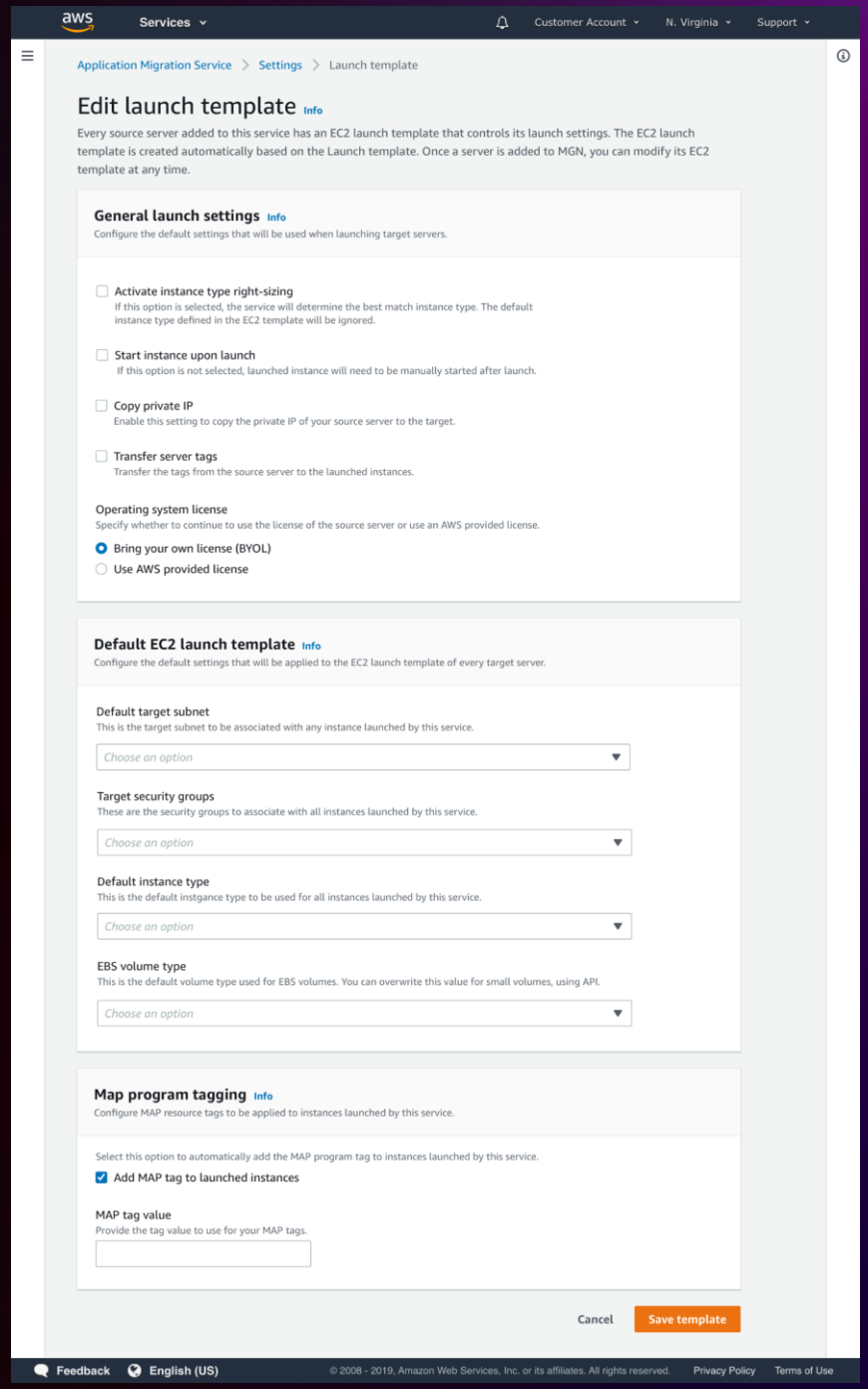
How does Application Migration Service work?



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Set up global launch templates

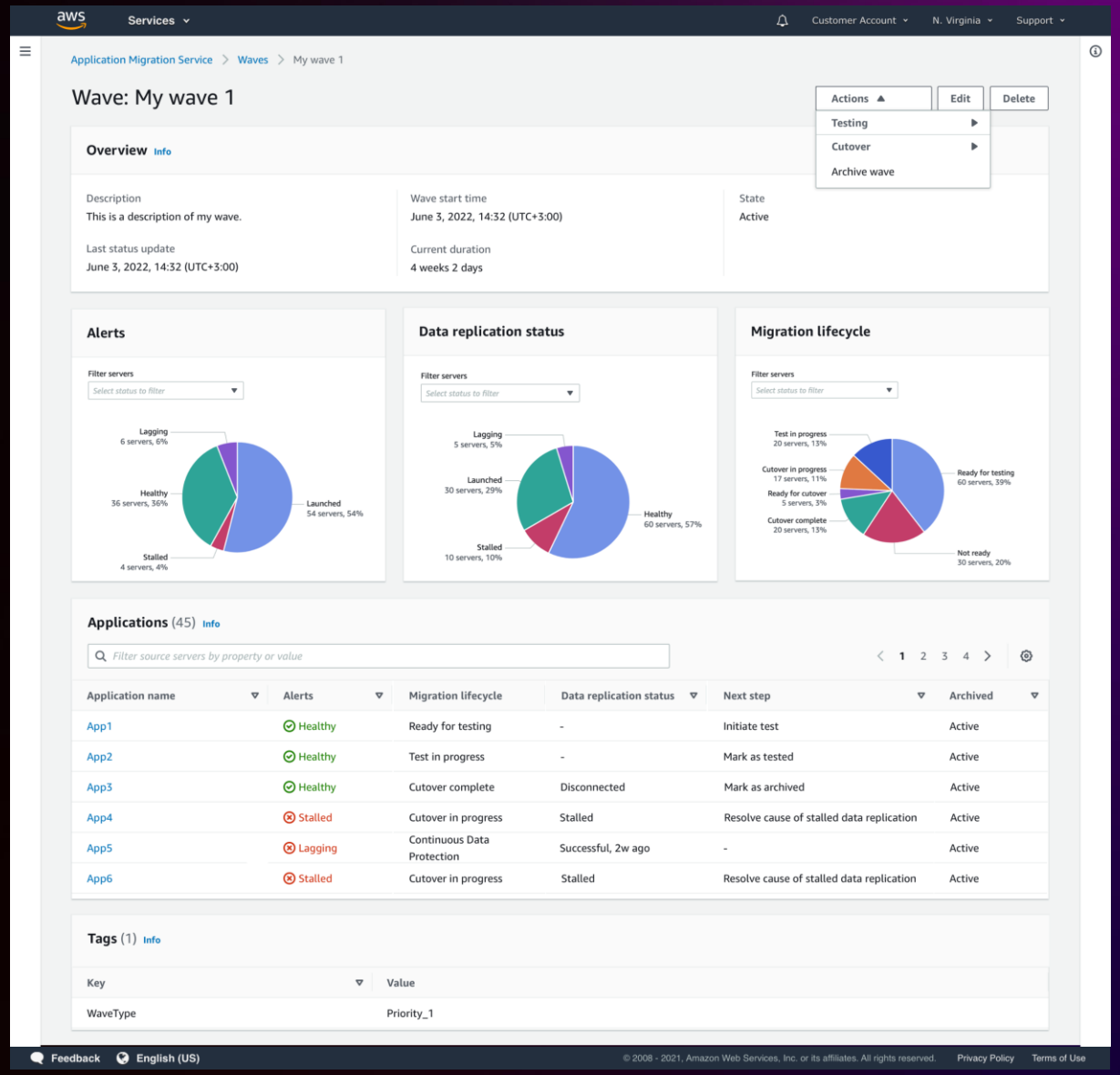
- A global launch template controls instance launch
- Optional configuration
  - Modify the template to suit your needs: right-sizing, instance type, subnet, and more
  - Fine-tune settings for each specific server (EC2 launch template)



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Plan and monitor your migration execution

- Group related servers into applications
- Plan migration waves
- Perform bulk actions across applications and waves: launch test and cutover instances
- Monitor migration execution

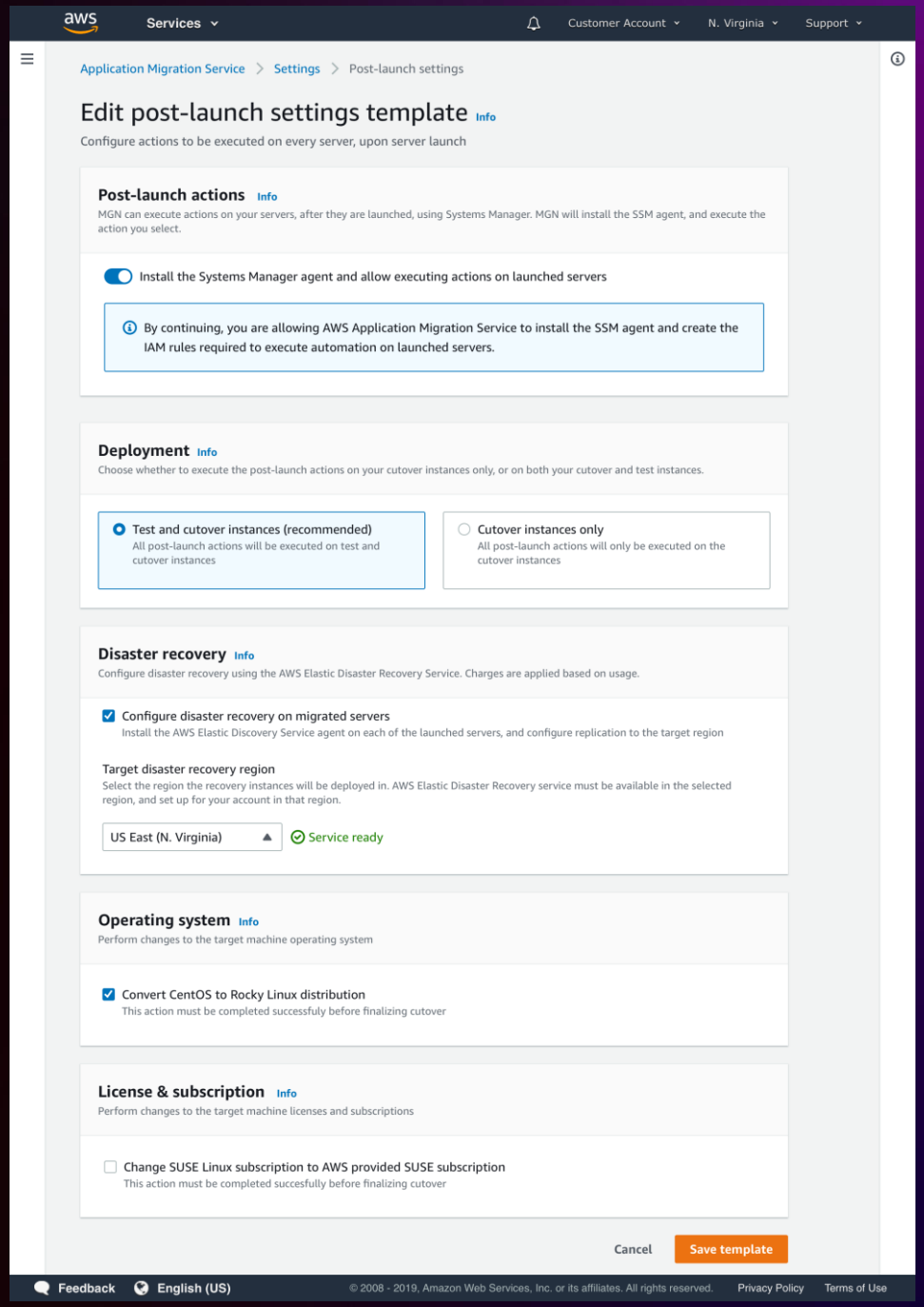


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Post-migration modernization framework

4 preconfigured actions now available

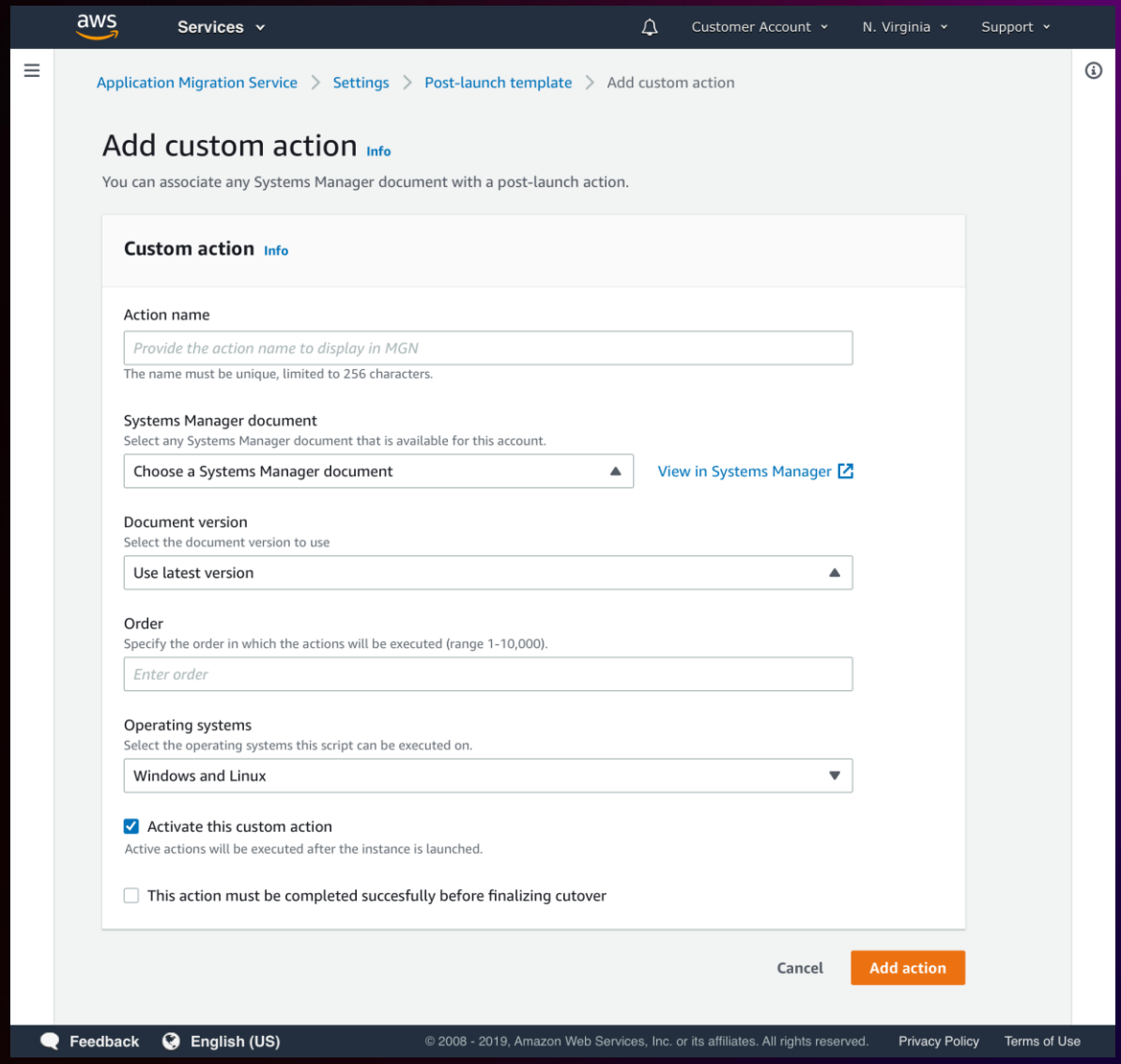
- Install AWS Systems Manager Agent (SSM Agent) – prerequisite for all actions
- Configure disaster recovery using AWS Elastic Disaster Recovery
- Convert CentOS to Rocky Linux distribution
- Convert SUSE BYOS to AWS license



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Post-migration modernization framework: Custom actions

- Automate execution of Systems Manager documents on migrated servers
- Create your own Systems Manager documents to handle your unique needs
- Two configuration options
  - Account post-launch template
  - Server settings



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AWS Windows Migration Accelerator

Accelerate migrations of Windows workloads and earn AWS Promotional Credits

How does it work?

Qualify for $200 credit per migrated Windows server

Migrate 40 or more servers per month – including at least 15 Windows servers – with Application Migration Service

Qualify for $250 credit per migrated Windows server

Migrate 80 or more servers per month – including at least 25 Windows servers – with Application Migration Service

Benefits

Decrease migration costs

Help offset costs of simultaneously running two environments during migration

Complete migration on time and within budget

- Set a more predictable migration schedule
- Better plan for costs

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Call to action

Learn more about AWS Migration Evaluator

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- Visit the Migration Evaluator product page: https://aws.amazon.com/migration-evaluator/

Learn more about AWS Migration Hub

- Visit the Migration Hub product page: https://aws.amazon.com/migration-hub/

Learn more about AWS Application Migration Service

- Visit the Application Migration Service product page: https://aws.amazon.com/application-migration-service/
- Take the free Application Migration Service training: https://docs.aws.amazon.com/mgn/latest/ug/mgn-training.html
- Schedule a Migration Immersion Day: https://migration-immersionday.workshop.aws/
- View AWS Windows Migration Accelerator terms: https://aws.amazon.com/application-migration-service/windows/

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