
AWS
re:Invent
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ENT321-R

Secrets to a successful migration at scale

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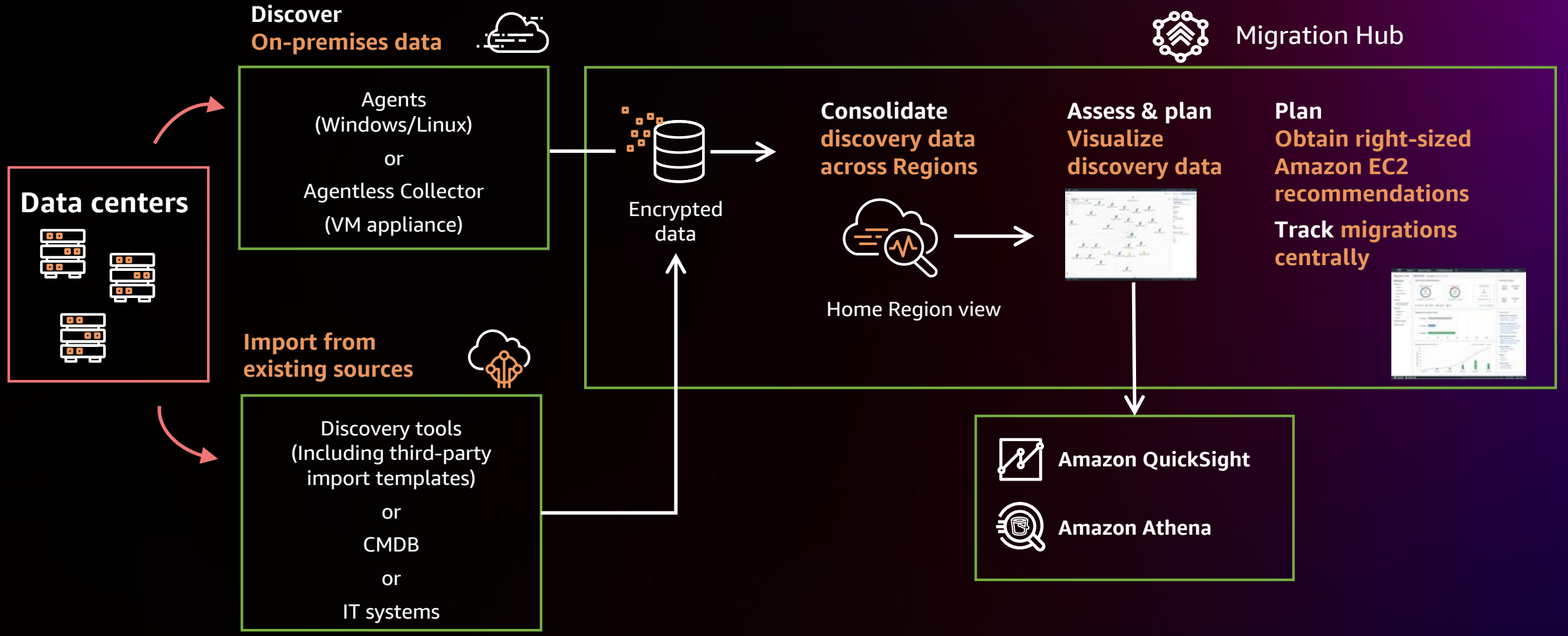
Workshop agenda

1. Discover your on-premises workloads with the AWS Application Discovery Service
2. Create a business case with Migration Evaluator
3. Plan your migration with AWS Migration Hub
4. Execute your migration with the AWS Application Migration Service (AWS MGN)

Migration Hub: Discover, assess, plan & track

CAPTURE AND VISUALIZE SERVER INVENTORY, PERFORMANCE, AND DEPENDENCIES



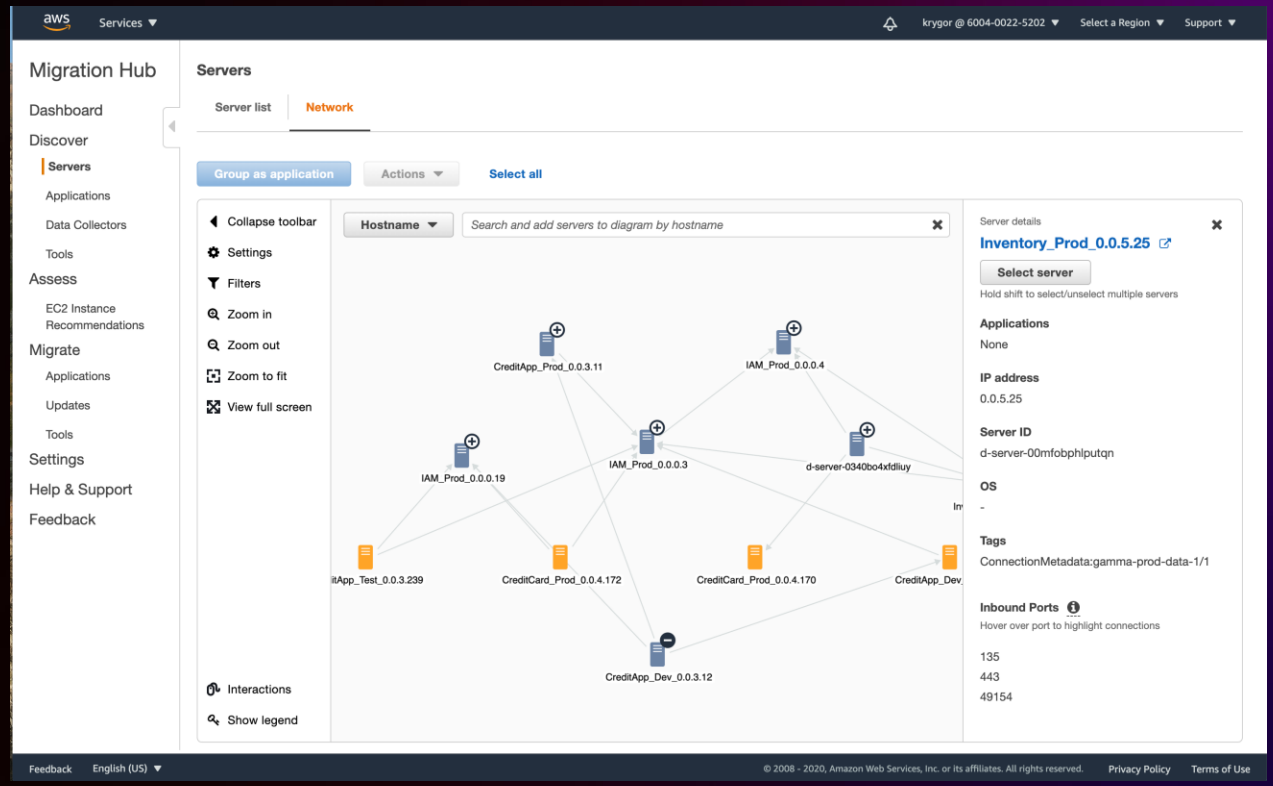
Visualize on-premises discovery data in Migration Hub

Mobilize

MIGRATION HUB NETWORK VISUALIZATION

Accelerate planning by making server discovery data planning-ready

- Visually identify server dependencies
- Identify the role of a server
- Use a data-driven approach to grouping servers as applications
- Use output to plan migration strategies, build migration waves
- Free to use, reducing migration tooling costs



Migrate and modernize using AWS MGN

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

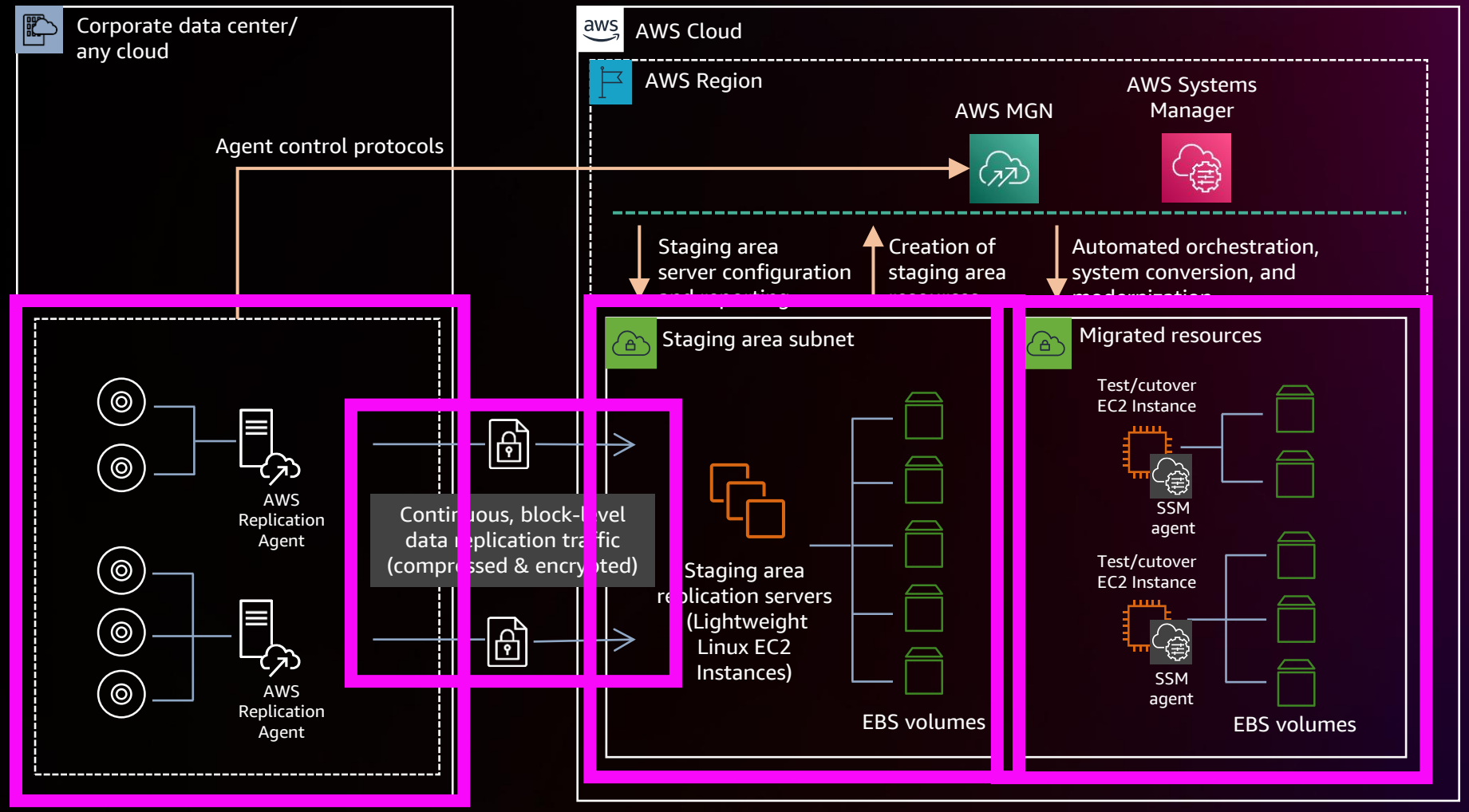
- Migrate applications to AWS with or without changes to applications or workflows
- AWS MGN automates migration to AWS
- You can start modernizing using AWS MGN post-launch actions during cutover
- Access the full range of AWS capabilities to modernize applications running on AWS

AWS MGN wide platform support*

Any application	ORACLE E-BUSINESS SUITE, ORACLE PEOPLESOFT, SAP CRM, SAP Hybris (Y), SAP ERP, Apache, SUGARCRM, Microsoft IIS, Microsoft SharePoint, Microsoft Active Directory, Microsoft Exchange, Microsoft Dynamics CRM
Any database	Microsoft SQL Server, ORACLE DATABASE, SAP HANA, MySQL, cassandra, mongoDB
x86 operating systems	Red Hat, CentOS, ORACLE LINUX, ubuntu, debian, SUSE, Windows Workstations, Windows Server 2003, Windows 10, Windows Server 2008, Windows Server 2012, Windows Server 2016, Windows Server 2019, Windows Server 2022
Source infrastructure	vmware, aws, vmware | aws, Cloud provider, Physical data centers, Microsoft Hyper-V, openstack

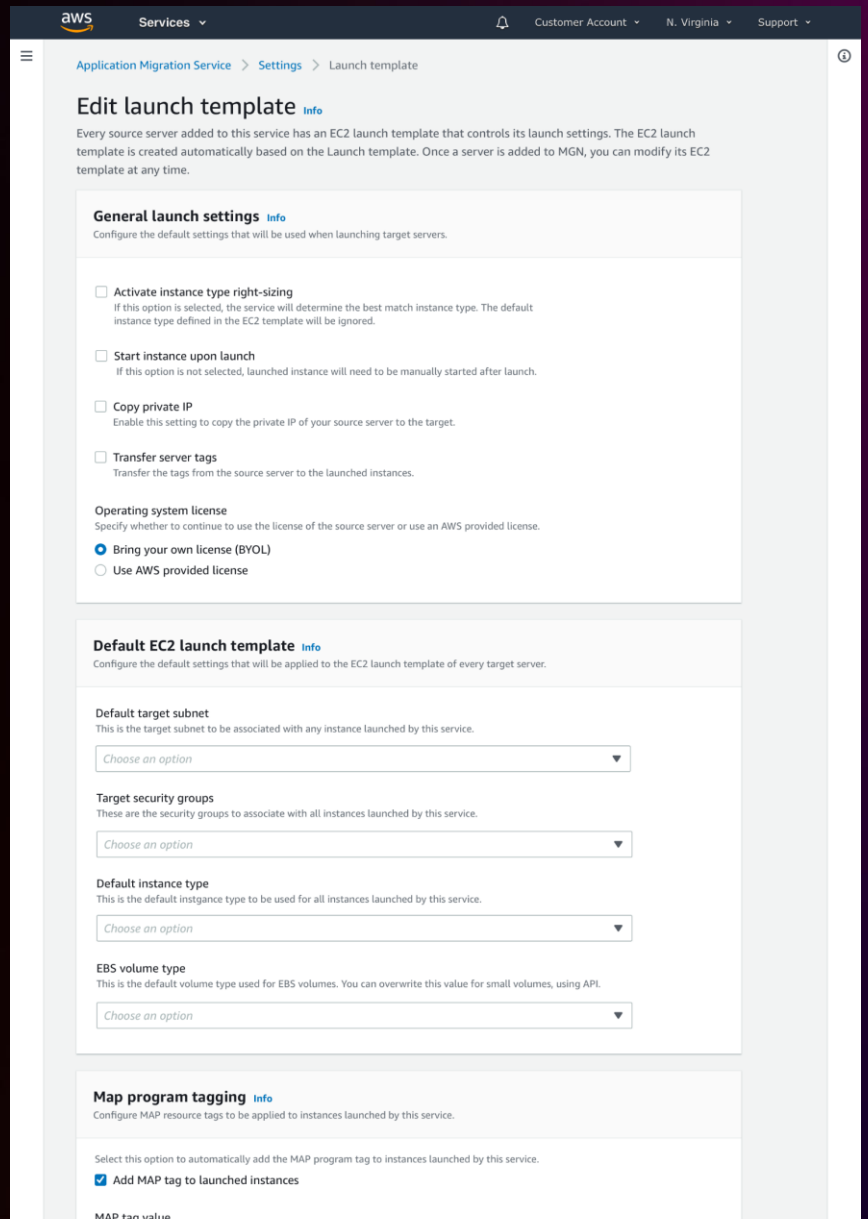
*See documentation for a complete list and supported versions

How does AWS MGN work?



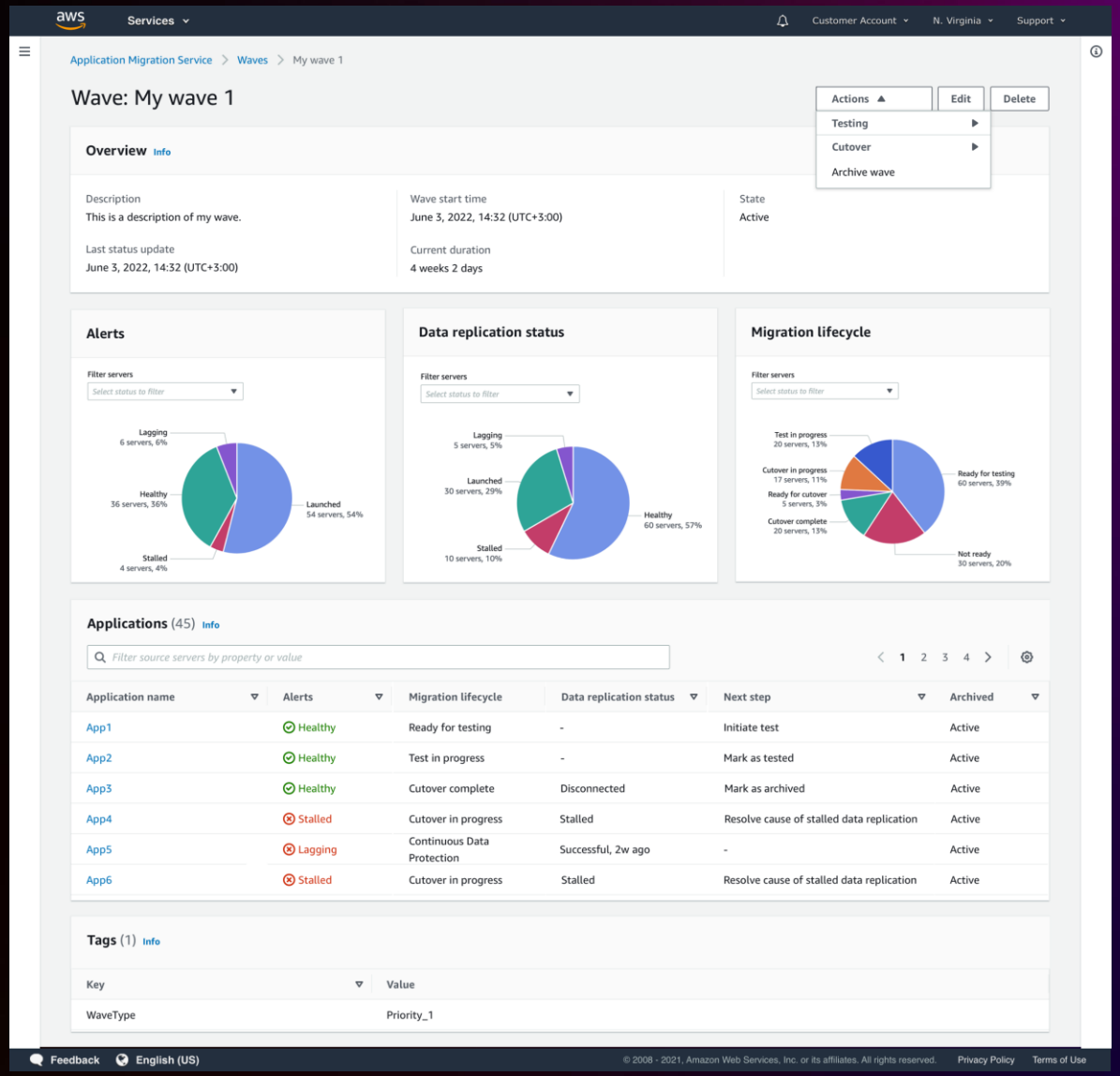
Set up global launch templates

- Configure launch template defaults that suit your needs: right-sizing, instance type, subnet, and more
- Fine-tune settings for each server, in its Amazon EC2 launch template



Plan and monitor your migration process

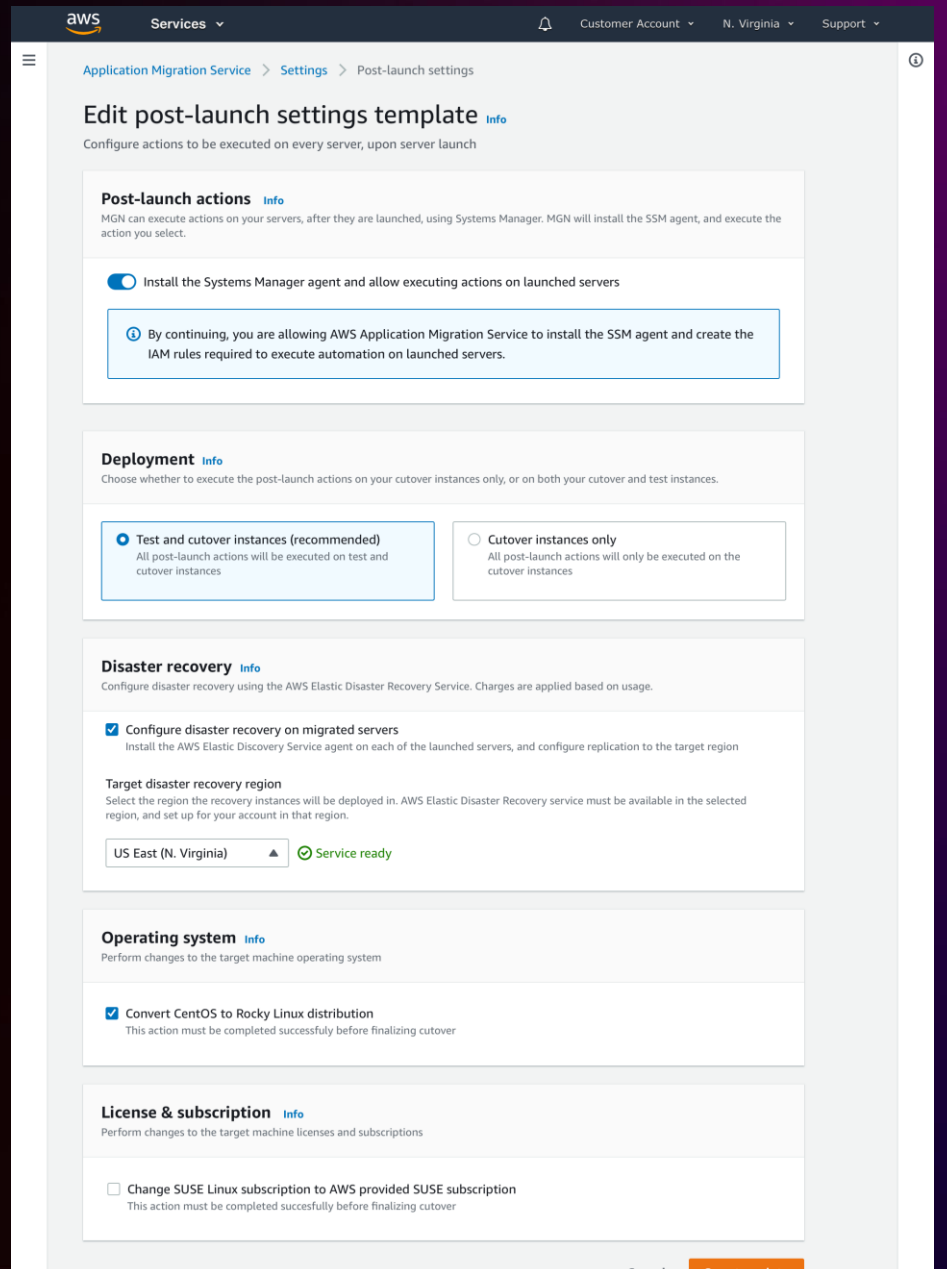
- Group related servers into applications
- Plan your migration waves
- Perform bulk actions across applications and waves: launch test and cutover instances
- Monitor your migration process



Post-migration modernization framework

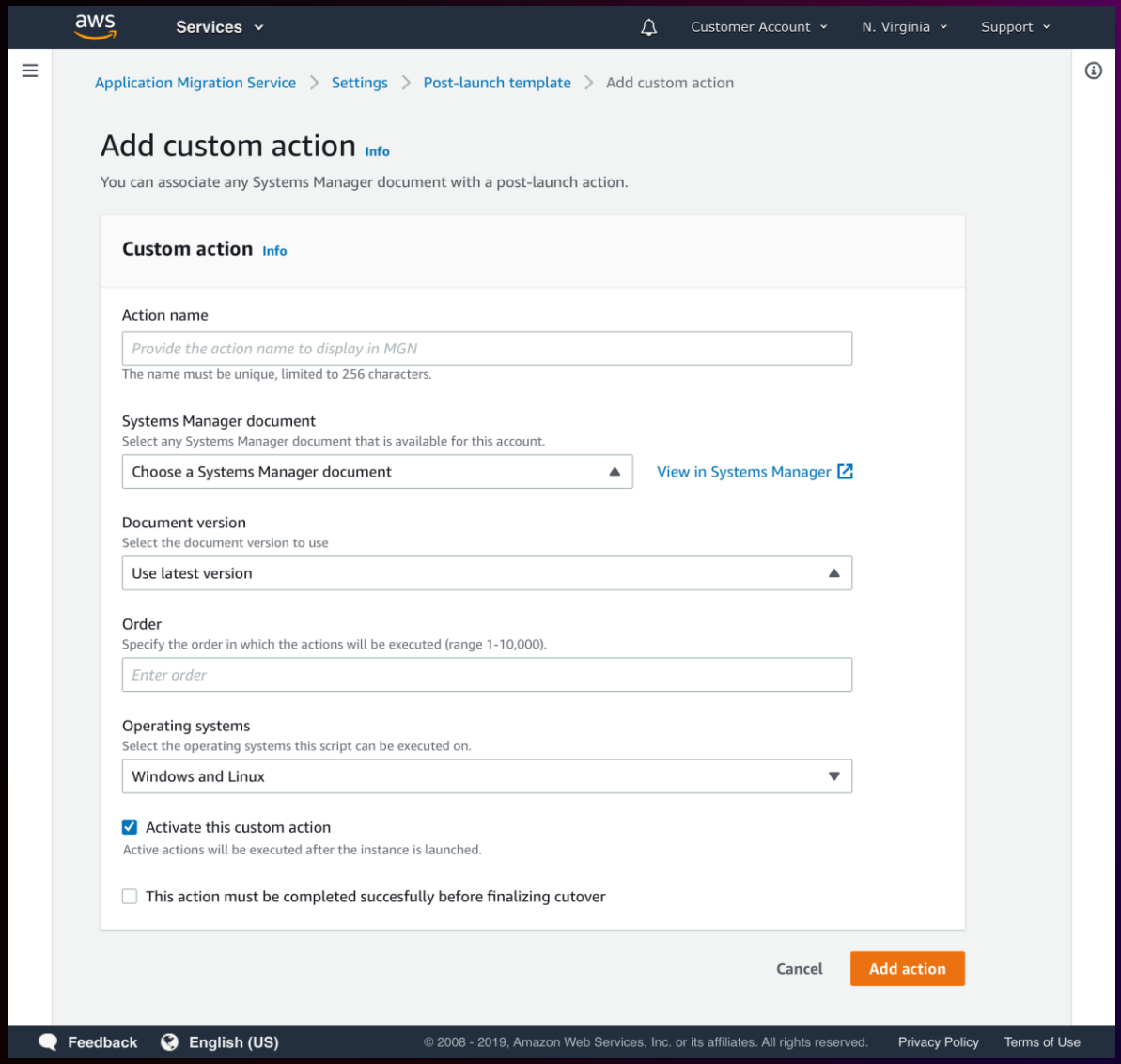
4 pre-configured actions now available:

- Install AWS Systems Manager agent – prerequisite for all other actions
- Configure disaster recovery, using AWS Elastic Disaster Recovery Service
- Convert CentOS to Rocky Linux distribution
- Convert SUSE BYOS to AWS license



Post-migration modernization framework – Custom actions

- Automate process for any AWS Systems Manager document on migrated servers
- Create your own AWS Systems Manager documents, to handle your unique needs
- Supported via account post-launch template and via server settings



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 AWS MGN

Qualify for $250 credit per migrated Windows server

Migrate 80 or more servers per month – including at least 25 Windows servers – with AWS MGN

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

https://s12d.com/PZVZdDpm

https://catalog.us-east-1.prod.workshops.aws/join?access-code=6117-0de186-a2

Summary

- In this session you learned techniques that can help you execute a large-scale migration, including:
  - Discovering On-premises servers with ADS
  - Using Migration Hub to analyze on-premises inventory data and perform dependency mapping, and group on-premises servers into applications.
  - Use AWS Application Migration Service (MGN) to:

    Configure a custom modernization action.

    Launch a migrated instance in AWS, in the process executing the modernization action.

    Create an application and a wave (optional steps).

    Monitor the migration process.

Resources

Learn more about AWS Application Migration Service (MGN)

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

Learn more about Migration Evaluator and AWS Migration Hub

- Request a migration evaluator assessment: https://aws.amazon.com/migration-evaluator/getting-started/
- Migration Hub Product Page: https://aws.amazon.com/migration-hub/
- Auction.com case study: https://aws.amazon.com/solutions/case-studies/auction-case-study/

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