



Accelerate your Migration to AWS

May 31st 2023

Upendra V, Enterprise Solutions Architect Ruchi Kapur, Solutions Architect



Agenda

- Migration Tools
- Application Discovery Service
- Migration hub
- Demo



Audience Poll!

What's the primary reason you're attending today's session?

Answer in "POLLS"



Migration tools





AWS Service Catalog



AWS Migration Hub



AWS Prescriptive Guidance

SERVER AND DATABASE MIGRATION





Application





AWS Server VM Import/Export Migration Service Migration Service

AWS Database Migration Service

THIRD-PARTY SOLUTION



AWS Marketplace

HYBRID SOLUTIONS











AWS Direct Connect



VMware Cloud on AWS

DATA AND STORAGE TRANSFER



AWS Datasync



AWS Transfer for SFTP



AWS Snowball



AWS Kinesis Data Firehose



AWS Storage Gateway

Commonly used migration tools

Service Name	Function	Supported Pattern	Supported Platform	Cutover Downtime	Cost
Application Migration Service	Agent-based block level replication	RehostRepurchase	Any platform running x86 operating systems	MinutesLaunch VMSwitch application endpoint	Free* • EC2 replication server
Server Migration Service (SMS)	Agent-less server migration service	RehostRepurchase	Virtualization VMWare HyperV Azure	Minutes/hours • Launch VM • Switch application endpoint	Free* • Appliance connector on-prem
Database Migration Service (DMS) & Schema Conversion Tools (SCT)	Database-level replication and Change Data Capture (CDC)	RehostReplatform	Database Engine Oracle MySQL SQL Server MariaDB PostgreSQL MongoDB DB2 SAP ASE Azure SQL	Minimal • Switch application endpoint	Free* • EC2 replication server
VM Import/Export	Import/Export VM image	RehostRepurchase	Image Format OVA VMDK VHD/VHDX Raw Image	Minutes/hours • Create image • Upload to S3 • Launch instance • Switch application endpoint	Free* • S3 storage



0



AWS Migration Tools

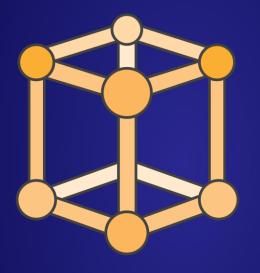
Application Discovery Service (ADS) & Migration Hub

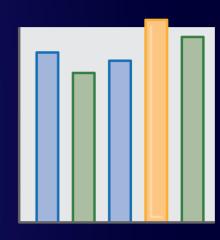


AWS Application Discovery Service (ADS)

Automate data center application discovery







Identify Application Inventory

Map Application Dependencies

Baseline System and Process Performance

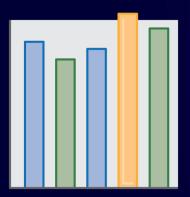


Advantage of ADS

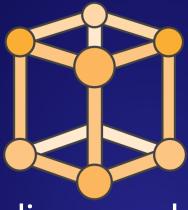


Runs everywhere

- Agent-based discovery
- Agentless discovery



Discover servers in a cost effective manner



Query discovery data

Query using Amazon Athena



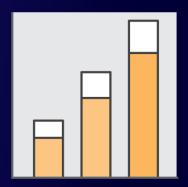
Streamlines migration planning

- Resource mapping
- TCO estimation



Burgeons partner community

Public API/CLI



Application awareness

App identification



AWS Application Discovery Service (ADS)

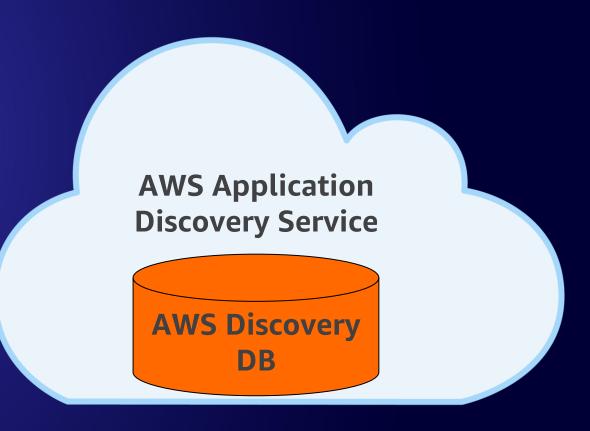
- Agents deployed on source hosts; agentless for VMWare
 - Windows and Linux support
- Capture system inventory, performance, and dependencies
- Capture and store secured data to AWS

On-premises data center or VMware vCenter

Discovery Agents Discovery
Appliance
(Standalone
VM)

Encrypted data (Optional)

- API access to discovered assets
- Application awareness and identification







Data Capture Capabilities by Agent

- Infrastructure and application level information captured from hosts
- Inventory of installed software applications
- Information about running applications and processes
- System and process performance, and resource utilization
- Track network activity on a server to infer dependencies
 - Dependencies between workloads
 - Dependencies with infrastructure services



Data Captured by the Agent

- User information (username, HomeDir)
- Group information (name)
- List of installed packages
- List of Kernel modules
- All Create and Stop Process events
- DNS queries

- NIC information
- TCP/UDP Process listening ports
- TCPV4/V6 Connections
- Operating System info
- System Performance
- Process Performance

11

AWS Migration Hub: Simplifying migration



Migration Hub is the central tool across all phases of migration



Assess

Import existing server inventory

Obtain right-sized EC2 recommendations

Capture and visualize system inventory, performance, and dependencies

Mobilize

Analyze server performance and identify server dependencies

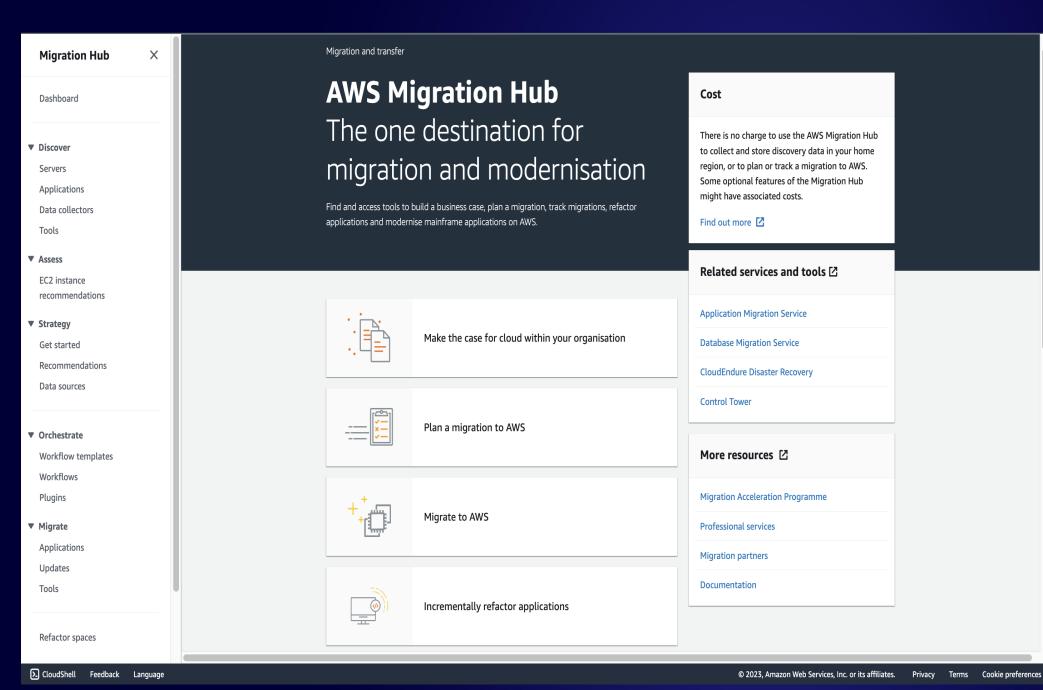
Group applications and build

Group applications and build a migration plan

Migrate and modernize

Track application migrations from multiple tools





AWS Migration Hub

- Migration Hub provides a single location to track the progress of application migrations across multiple AWS and partner solutions
- Using Migration Hub allows you to choose the AWS and partner migration tools that best fit your needs, while providing visibility into the status of migrations across your portfolio of applications

Integrated Migration Tools

With SMS, Import VM images from your existing environment to ready-to-use Amazon EC2 instances



AWS Server Migration Service

DMS helps you migrate databases to AWS easily and securely



AWS Database Migration Service

App Mig service Live Migration provides automated migration to AWS from any physical or virtual infrastructure

Application Migration Service

ATAmotion auto-migrates live workloads directly to your VPC from any physical, virtual or cloud source, without installing agents.



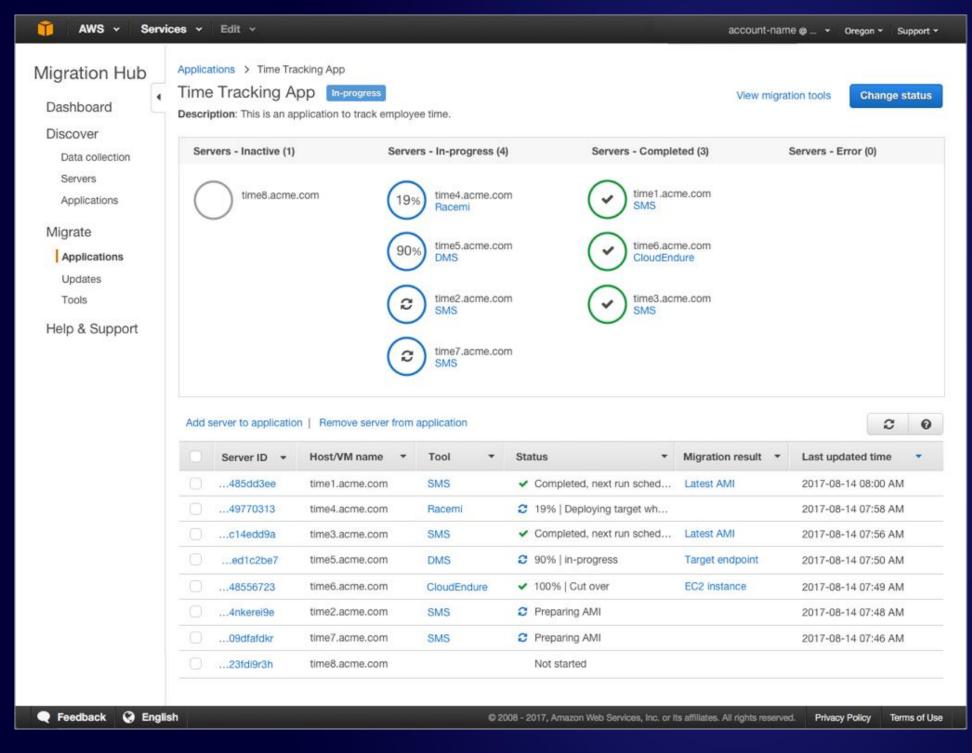
RiverMeadow Server Migration SaaS provides high performance and secure workload migrations into AWS VPC environments.





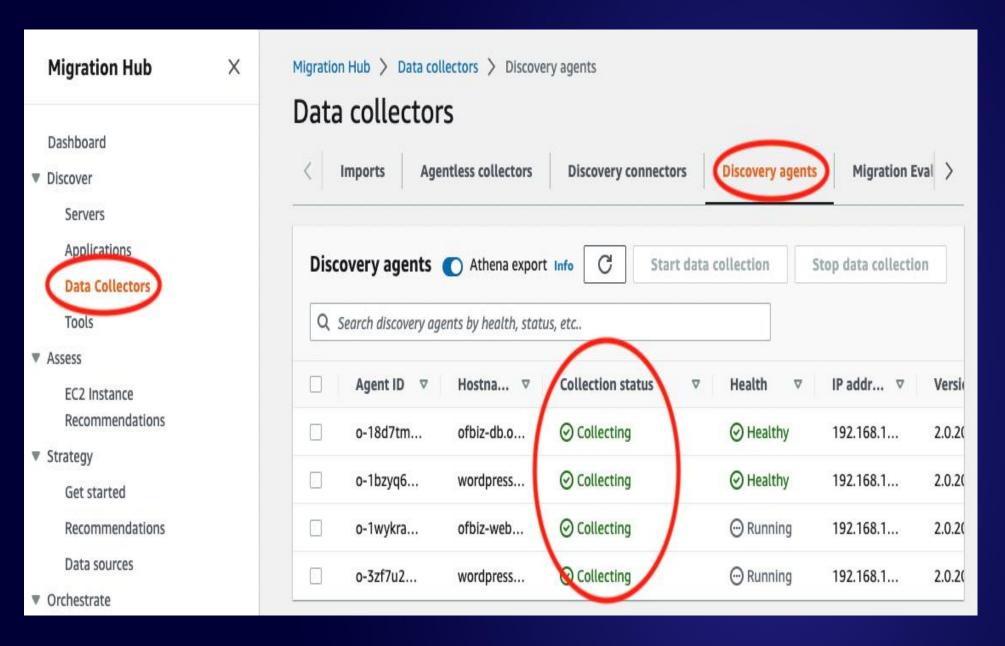
AWS Migration Hub





Migration Tracking

The migration tools, if authorized, automatically send status updates and results back to Migration Hub, for display on the migration status page for the application.



Migration Tracking

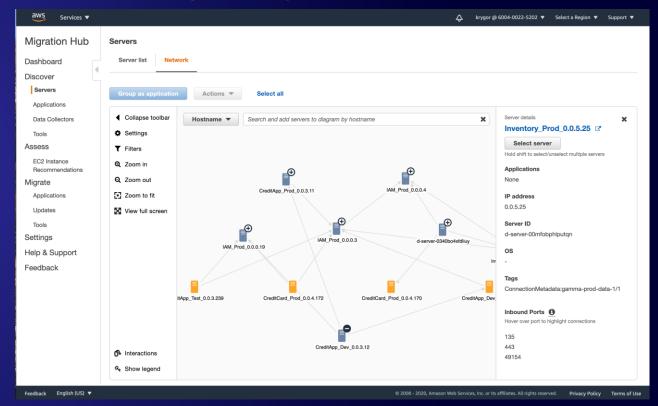
Track the status and key metrics of your application migrations by checking the Migration Hub Dashboard

Visualize on-premises discovery data in Migration Hub

Migration Hub network visualization (AWS Discovery Agent only)

Accelerate planning by making server discovery data planning-ready

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







Demo: Migration Hub





Audience Polls!

Do you plan to use or learn more about today's AWS Service within the next 8 weeks?

Are you working on a current AWS opportunity?

Would you like AWS Expert to reach out to you regarding a question about a current opportunity?

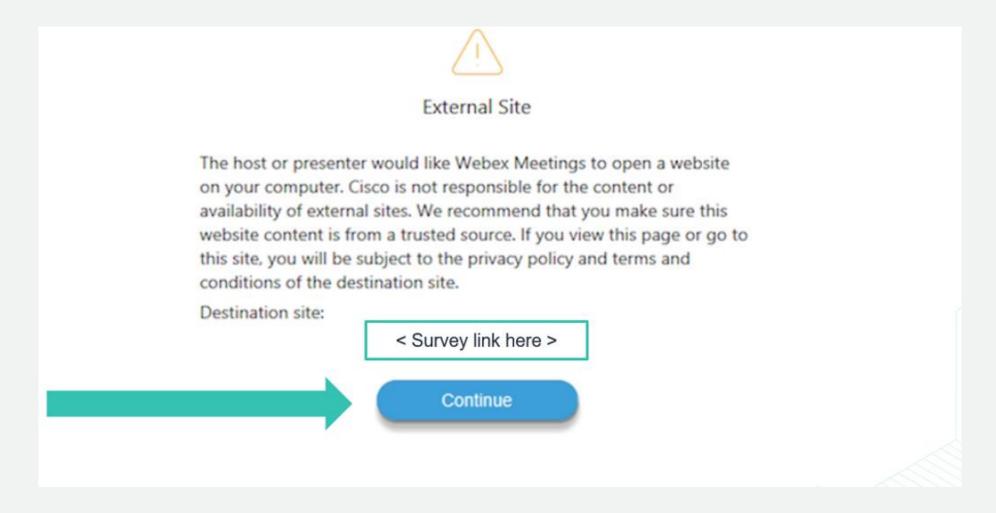
Answer in "POLLS"





Exit Survey

We appreciate your feedback! Please complete the survey at the end of this session. You will be automatically redirected via this screen:



© 2023, Amazon Web Services, Inc. or its affiliates.



Thank you!

Please join us again for another PartnerCast session

https://aws.amazon.com/partners/training/partnercast/