
AWS
re:Invent

WIN201

Migrating Microsoft workloads to AWS

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AWS

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Agenda

Migration journey

Common Microsoft workload migration patterns

Identity / Active Directory

Microsoft SQL Server workloads

Microsoft .NET workloads

End-of-support migration program for Microsoft workloads

Demo



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Migration journey

Assess

Cloud Adoption Readiness Tool (CART)

Migration readiness assessment (MRA)

Migration evaluator

Rapid migration business case (RMBC)



Rapid discovery



TCO report

Pre-MRP accelerators



Briefings and workshops



Immersion day

Mobilize



Discovery and planning



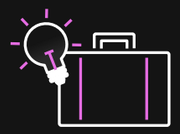
Landing zone



Skills / center of excellence



Migration experience



Business case



Migration plan

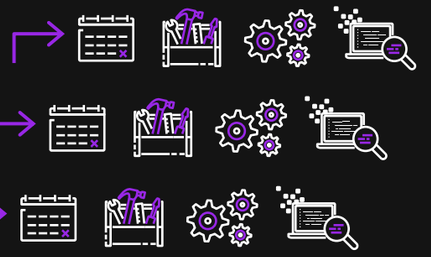


Operating model



Security and compliance

Migrate and modernize



Migrate

Operate and optimize



Modernize

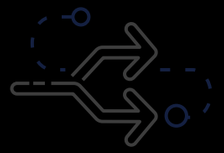


Create a case for change

Mobilization through experiences

Accelerate migration at scale

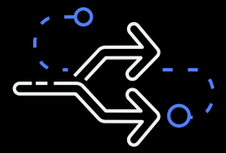
Common Microsoft workload migration patterns



.NET applications

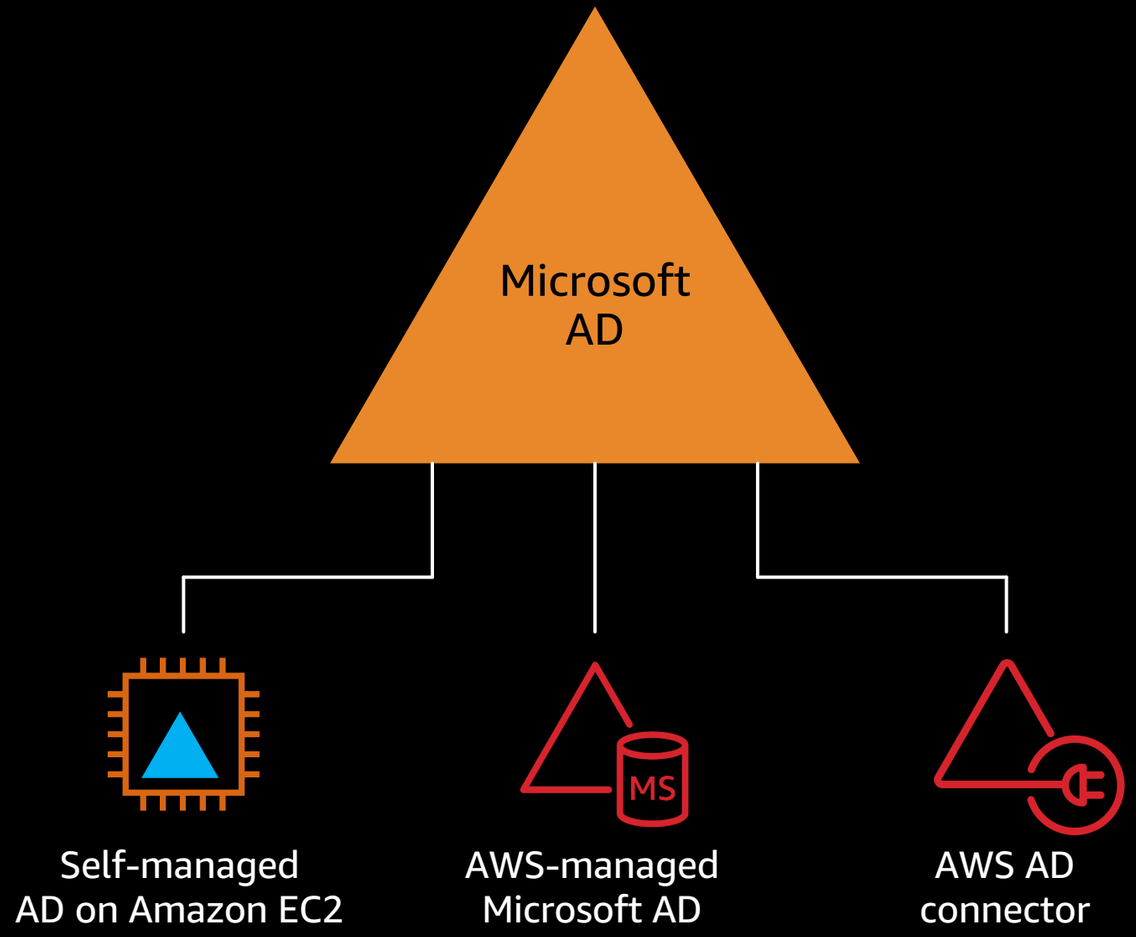


SQL Server

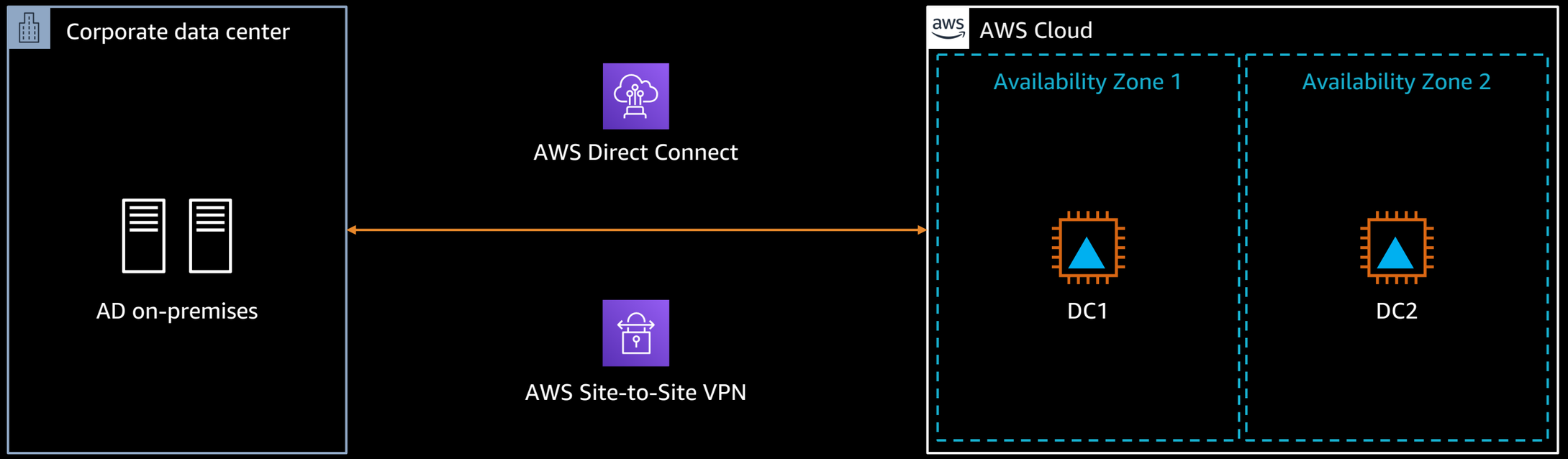


Identity and Active Directory

Microsoft Active Directory (AD) migration patterns



Self-Managed Active Directory on EC2





Self-managed
Build and operate



Full
administrator access

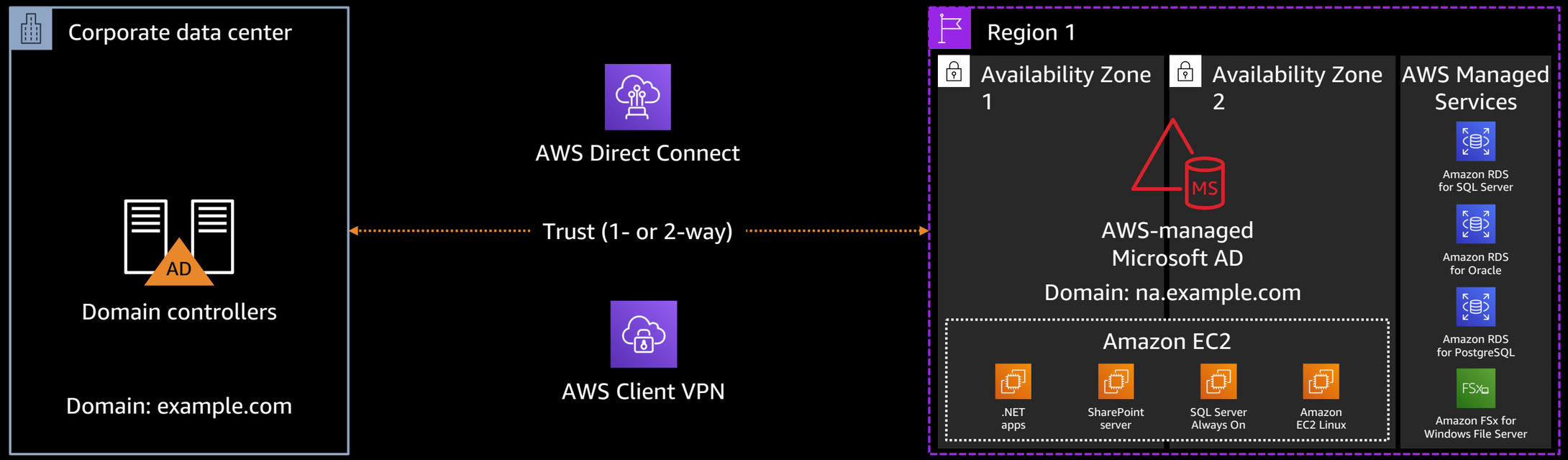


Trust or replication
to premises



Support for workloads
like Microsoft Exchange

AWS-managed Microsoft AD



AWS-managed infrastructure

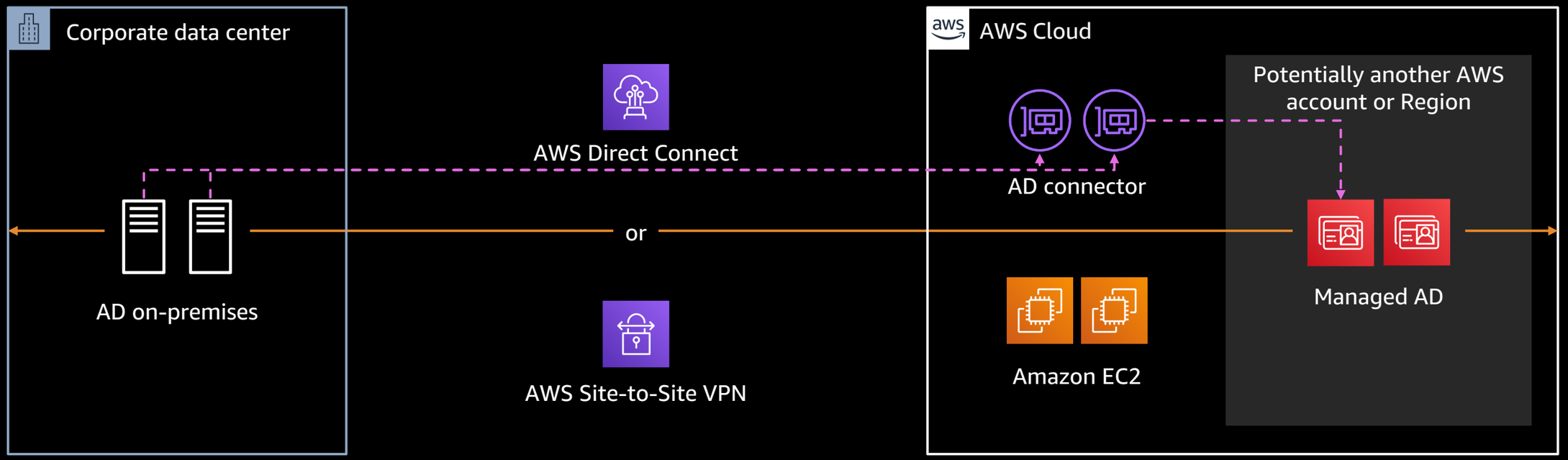
AD trust support

Single sign-on

High availability and daily snapshots

Seamless domain join

AWS AD Connector



Authenticate using on-premises credentials

IAM role-based access to the AWS Management Console

Multifactor authentication

SQL Server migration patterns



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Running SQL Server on AWS

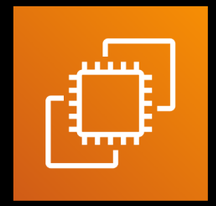
Amazon EC2

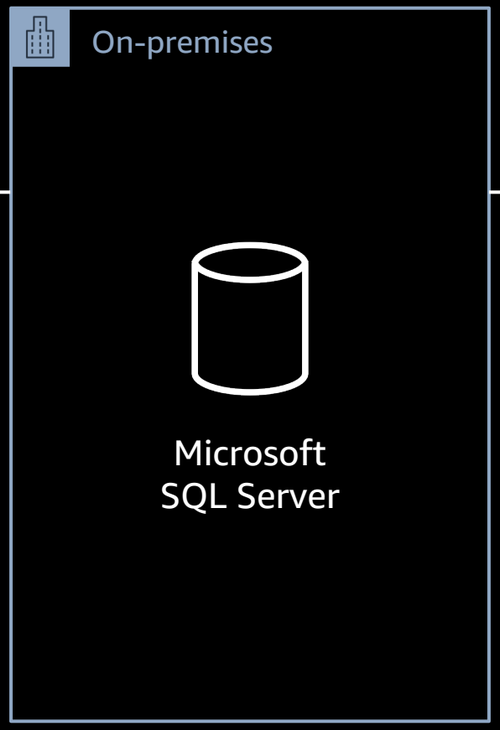
Self-managed

Full access to OS and SQL DB

Self-managed backup and maintenance

Supports BYOL and Linux OS







Amazon RDS for SQL Server

Managed

Built-in high availability

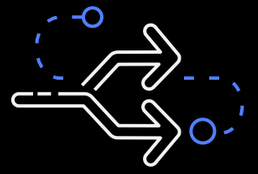
Managed backup and patching

SQL Server migration paths



AWS Database Migration Service (AWS DMS)

EC2/RDS SQL Server



VM migration tools

CloudEndure migration

AWS Server Migration Service (AWS SMS)



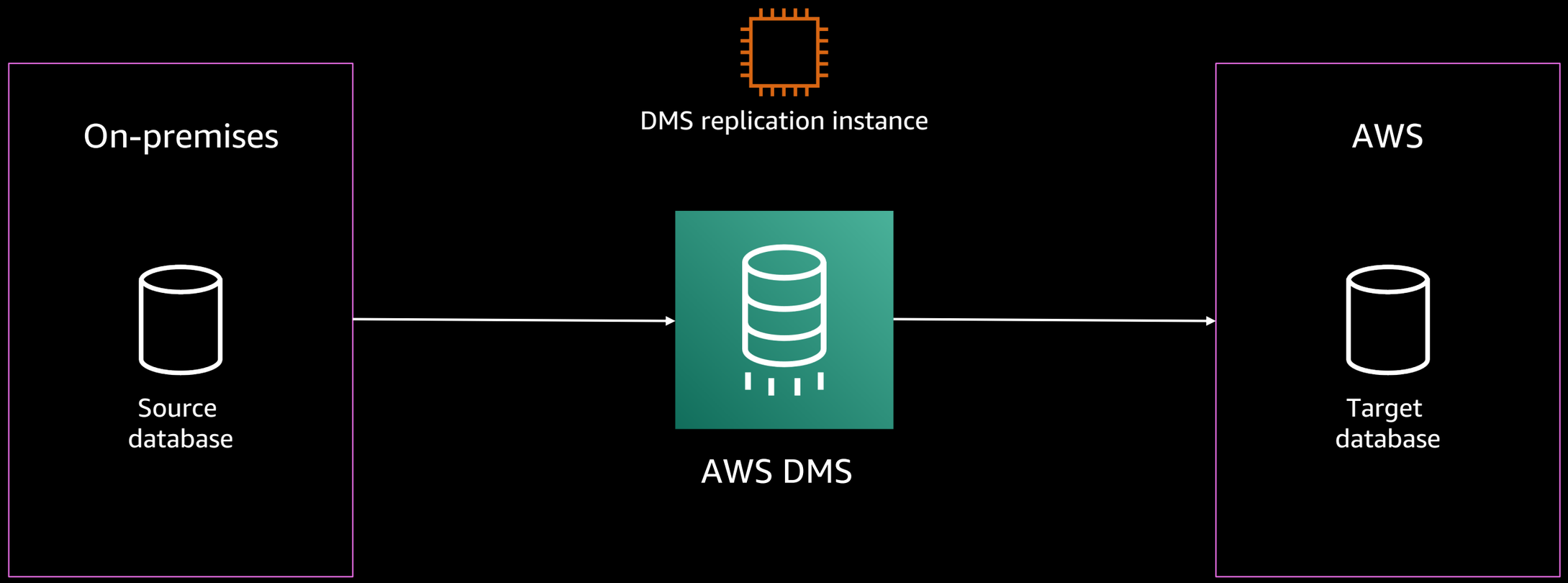
Native SQL server features

Backup and restore

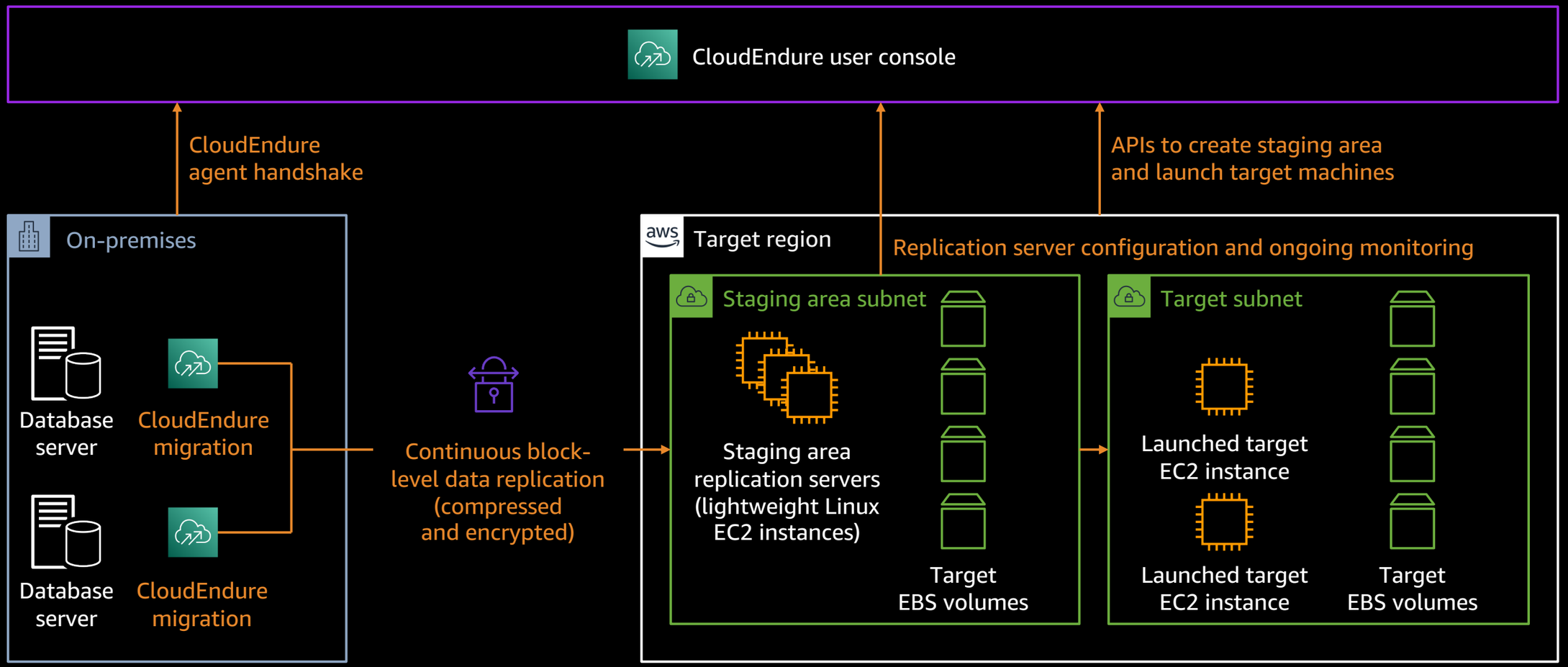
Log shipping

Distributed availability groups (EC2)

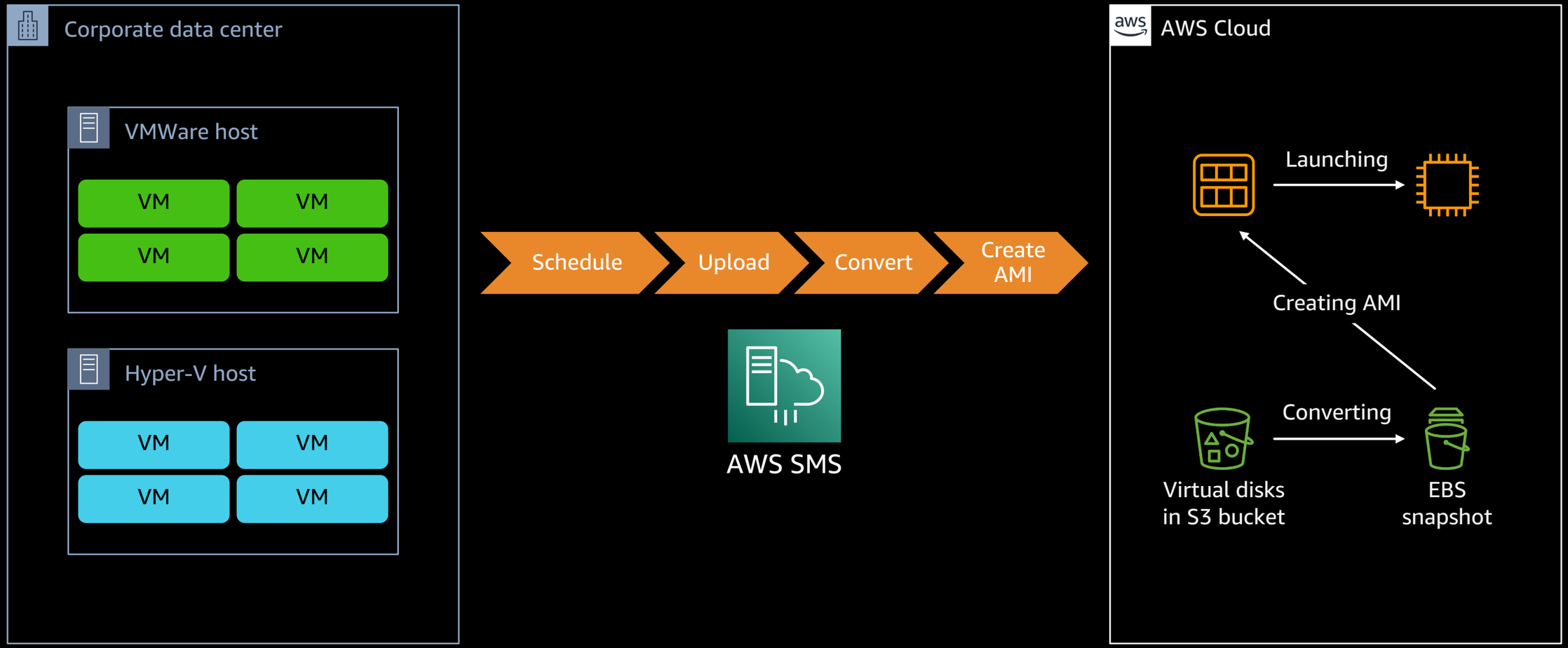
Migrate SQL Server database using AWS DMS



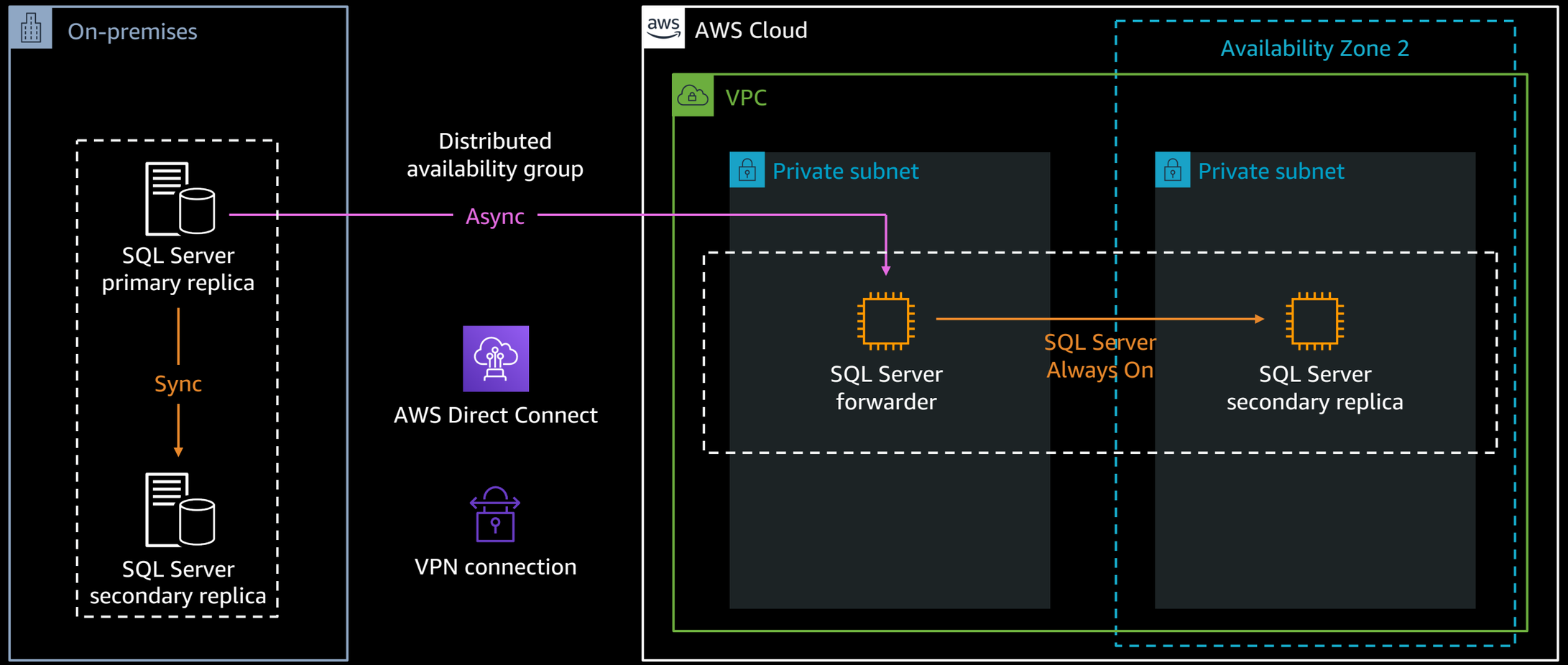
Migrate SQL Servers to Amazon EC2 using CloudEndure



Migrate SQL Servers to Amazon EC2
AWS Server Migration Service (AWS SMS)



Migrate SQL Server database to Amazon EC2 using distributed availability groups



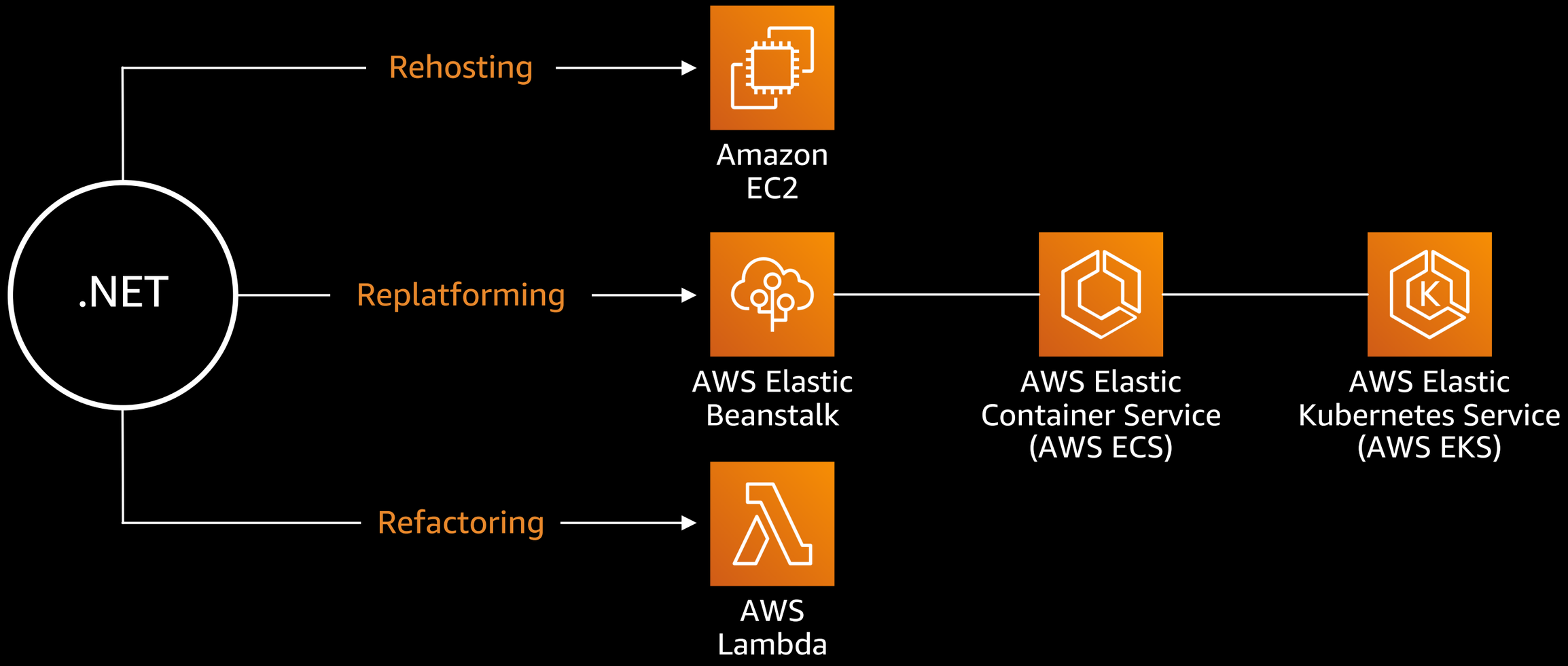
.NET migration patterns



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Platforms to host your .NET application



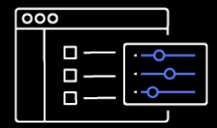
Windows Web Application Migration Assistant for AWS Elastic Beanstalk



Minimal to no code change

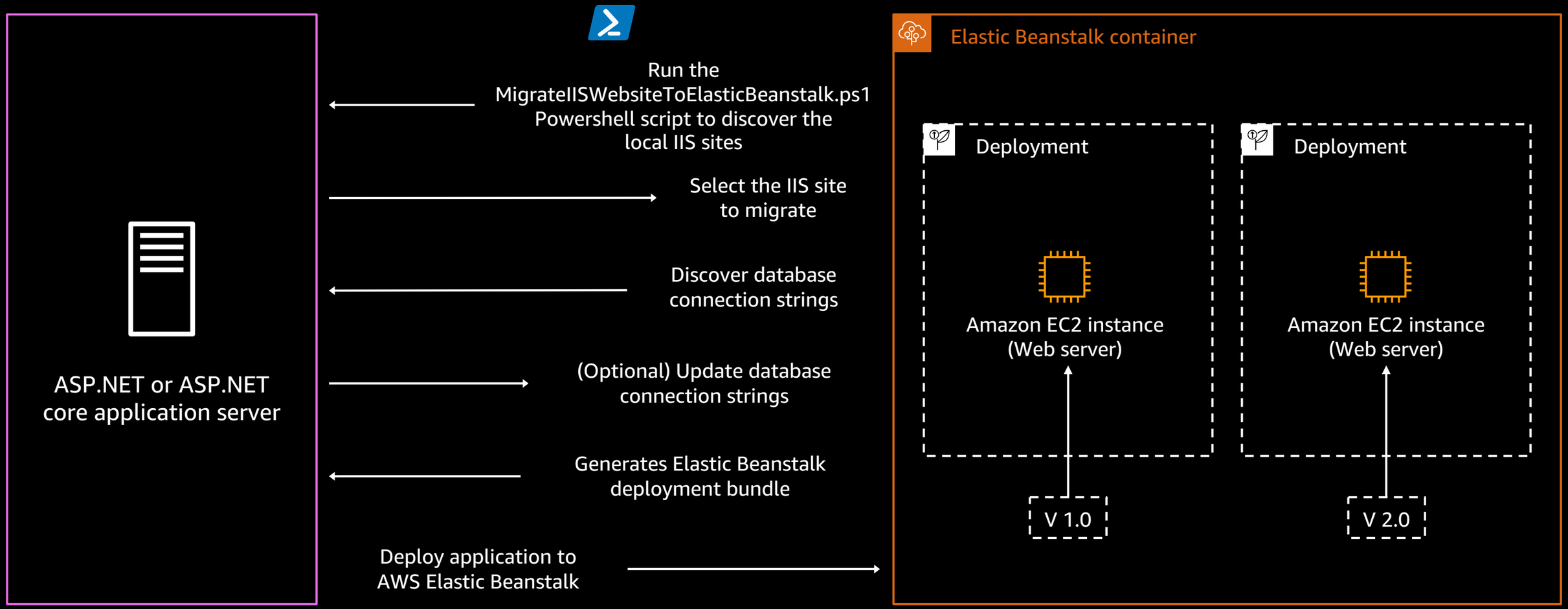


Developer productivity



Reduction of IT operation overhead

Windows Web Application Migration Assistant for AWS Elastic Beanstalk: Under the hood



Replatforming your ASP.NET application using App2Container



Automatically converts into Windows container

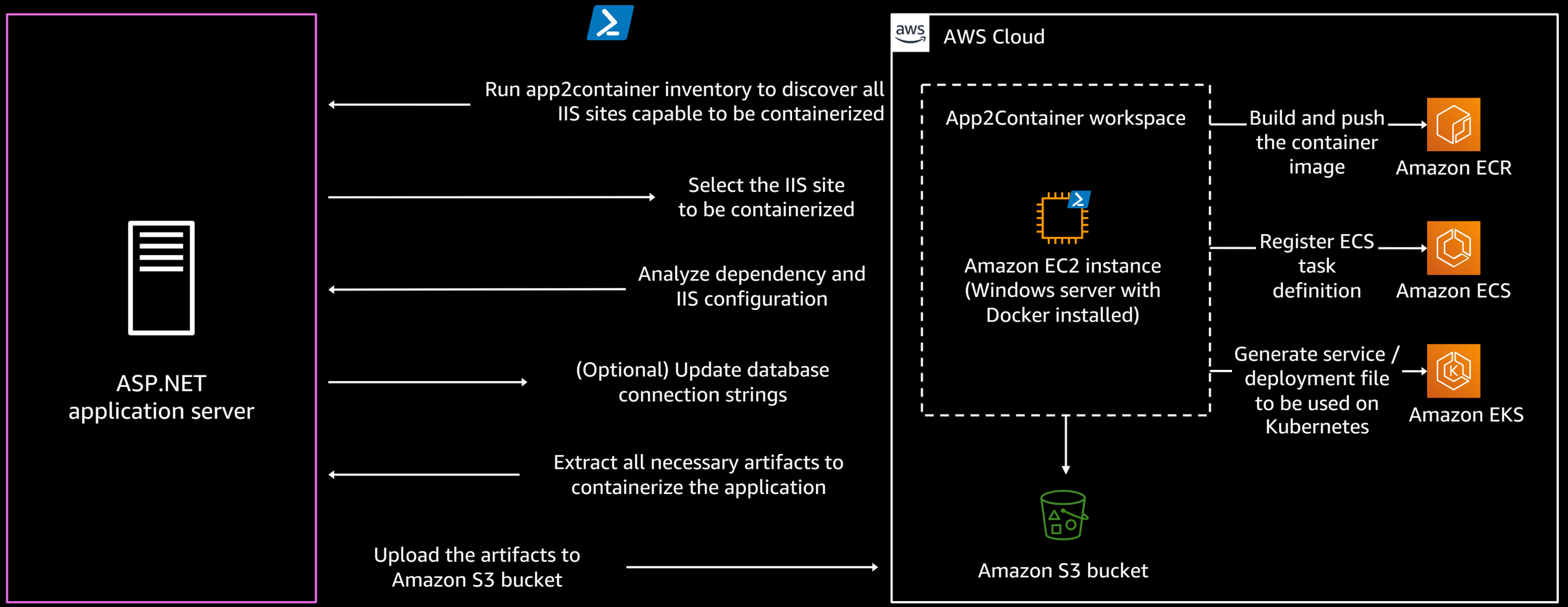


Minimal to no code change

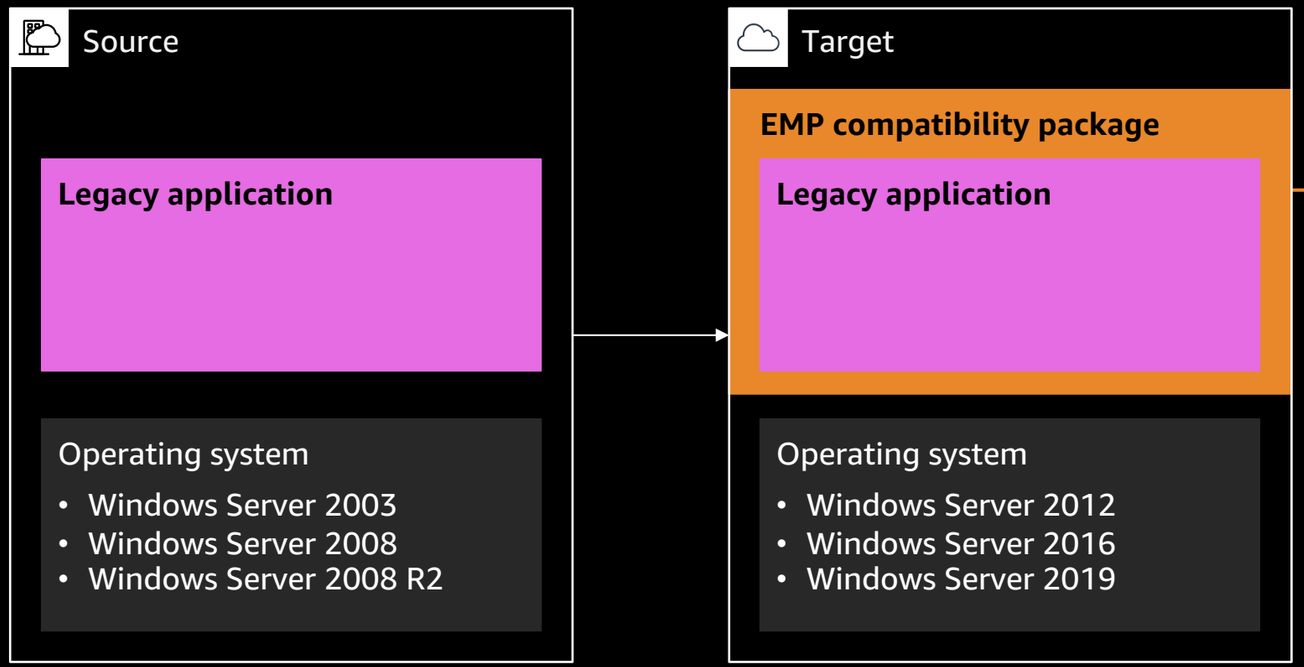


Fast and easy to set up

Replatforming your ASP.NET application using App2Container: Under the hood



End-of-Support Migration Program for Windows Server



Compatibility package features

Redirection

Intercepts Windows API calls as the application interacts with local operating system returning the resources expected by the application regardless of OS

Isolation

Runs older versions of runtimes that can only be accessed by packaged application

Compatibility

Resolves OS incompatibilities while maintaining integration with other applications and services

Calls to action

- Learn more about Windows on AWS at https://aws.amazon.com/windows/
- Establish early wins by leveraging CloudEndure to migrate first workloads
- Revisit your .NET applications and look for opportunities to modernize
- Attend other sessions
  - WIN301 – Best practices for running Microsoft Active Directory on AWS
  - WIN302 – Managing and governing Microsoft Workloads on AWS
  - WIN303 – Cost-optimize SQL Server on AWS
  - WIN304 – Migrate SQL Server to AWS
- Your feedback is important

Thank you!



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