

The background features a vibrant, multi-colored gradient. The top left is a deep blue, transitioning through purple and magenta to a bright orange and yellow in the center, and finally fading into a light blue and white on the right. A diagonal line separates the darker blue on the left from the lighter blue on the right.

AWS
re:Invent

WIN203-R

Learn how to future-proof your Microsoft end-of-support applications

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Agenda

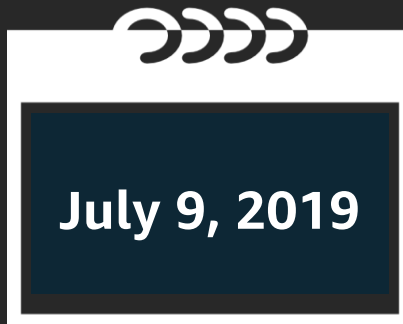
- Background on Microsoft end of support
- Challenges with upgrading Windows Server version for legacy applications
- AWS End-of-Support Migration Program (EMP) for Windows Server
- SQL Server 2008 end-of-support options
- Frequently asked questions and open Q&A

Background on Microsoft End of Support

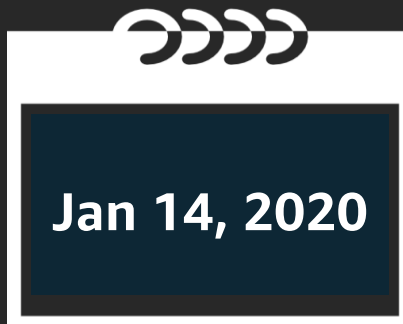
Microsoft support policy

- Microsoft Lifecycle Policy offers five years of mainstream support
 - New features and enhancements
 - Security updates
 - Non-security updates
 - Plus five years of extended support
 - Security updates
 - Non-security updates
-
- Plus a maximum of three years of extended security update (ESU)
 - Critical fixes only
 - Paid for one year at a time

Key end-of-support dates



SQL Server 2008 and 2008 R2 reached end of support



Windows Server 2008 and 2008 R2 will be reaching end of support

What does this mean for customers?

Purchase extended
support

Refactor/Rewrite
applications

Upgrade operating
system version

Challenges with upgrading Windows Server version for legacy applications

Legacy applications present migration challenges

- Lost expertise, code and/or installation media
- High cost and time commitment for refactoring or recoding the application
- High risk of upgrade failure
- Incompatible highly customized commercial-off-the-shelf (COTS) applications
- Dependencies on older runtime versions like Java, .NET, etc.

AWS End-of-Support Migration Program (EMP) for Windows Server

AWS End-of-Support Migration Program (EMP) for Windows Server

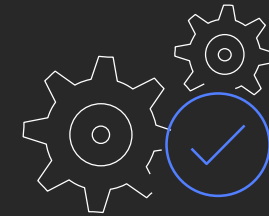
Upgrade your legacy Windows Server applications to newer, supported operating systems without having to refactor



Future-proof your applications



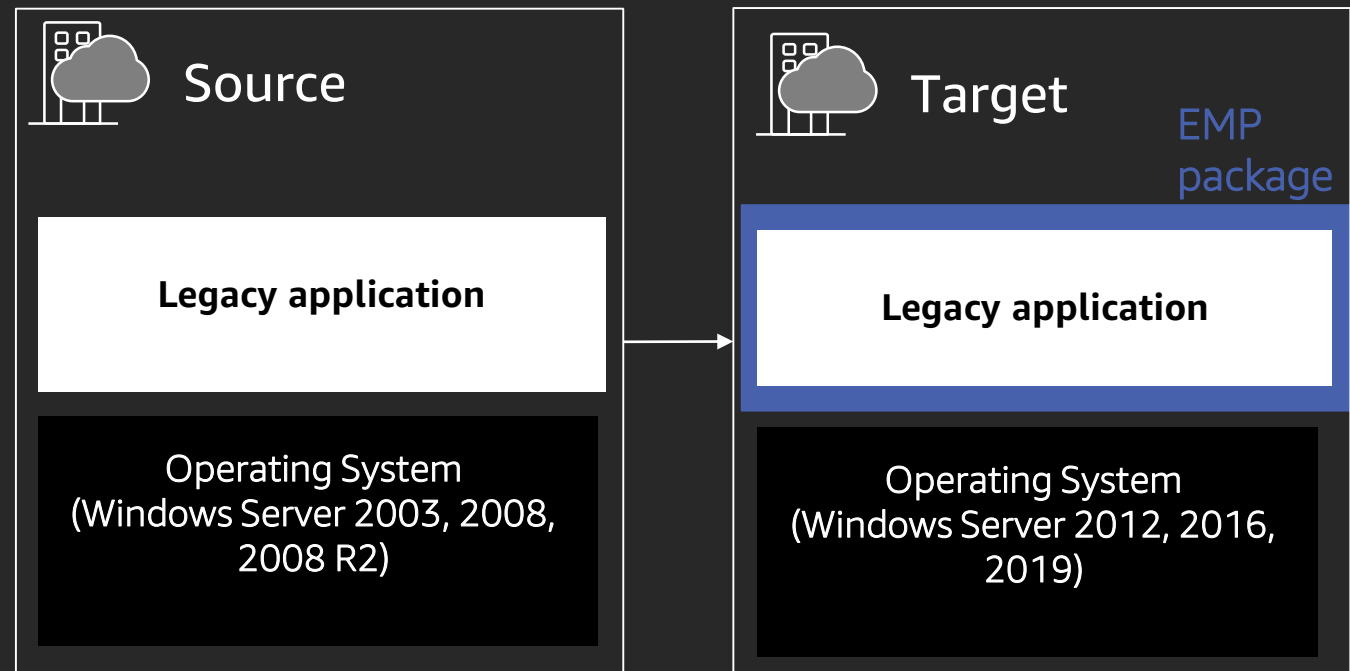
Improve security, performance, and compliance



Technology to package legacy applications

Learn more at: <https://aws.amazon.com/emp-windows-server>

How it works



Packaging process

Packaged on source operating system by capturing resources during application install process and runtime analysis

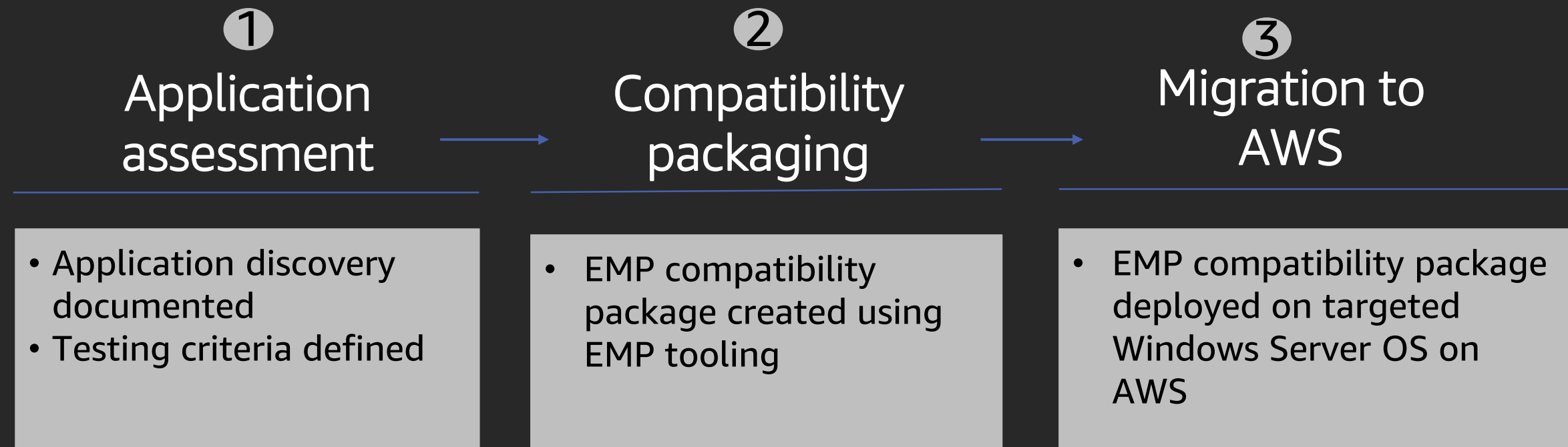
Redirection

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

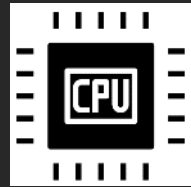
Isolation

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

EMP for Windows Server Process



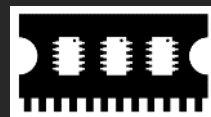
Minimal overhead



< 1% CPU hit



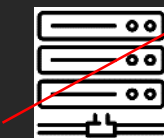
+10MB additional disk space



+20MB RAM overhead per package

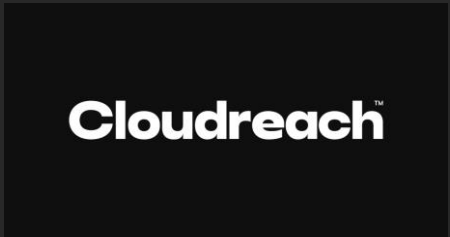


No agent or client, only requirement is .NET 4.0



No backend infrastructure

Featured AWS Partners



Customer references



EMP for Windows Server addresses regulatory requirements by upgrading applications that have no reasonable refactoring path forward



EMP for Windows Server provides the expert help in migrating tactical applications without having to go through any code changes, to address technical debt and uplift security posture



EMP for Windows Server packages legacy Windows Server 2003 and 2008 applications to mitigate risk, modernize estate, and accelerate move to AWS

Demo

Examples for applications supported

- Applications that are incompatible with newer Windows versions
- Legacy Windows workloads that have not yet been migrated into AWS
- Legacy workloads that have been lifted and shifted into AWS but still run on older Windows versions

Examples of technologies supported:

Applications and databases: Apache Tomcat 6.2, SQL Management Studio x86 2008, SQL Management Tools x86 2005, MS-SQL 2000, MS-SQL 2005, MS-SQL 2008, dBase, Oracle 9i, Oracle 10g, Oracle 11g, IBM DB2, Microsoft JET Engine, Access 2003, WebSphere

Runtimes: ActiveX, VB 4, VB 5, VB 6, .NET 1.1, .NET 2.0, .NET 3.5, Java 4, Java 5, Java 6, C++ runtimes CRT

Applications with **no installation media, or source code**

Applications currently out of scope

The following are out of scope:

- Non Windows Server operating systems
- 16-bit Windows applications
- 64-bit device drivers aren't virtualised but can be deployed with the package
- Low level applications e.g., anti-virus, firewall, and VPN applications

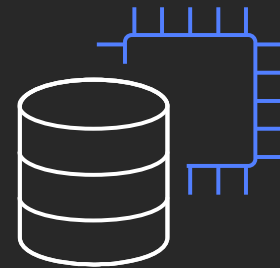
SQL Server 2008 end-of-support options

SQL Server 2008/R2 end of support

Upgrade

Migrate

Modernize



SQL Server
upgrade tool



SQL Server re-
platforming
tool



AWS Database
Migration
Service

SQL Server on Amazon EC2

SQL Server on
Microsoft Windows

Easy 'lift and shift' to the cloud

OS-level control

Flexible licensing*

Migrate

SQL Server on
Linux

Leverage open source to reduce cost

Consistent user experience

No change to apps

Modernize

2019 support launched

* Customers have 2 BYOL options for SQL Server: BYOL SQL Server with SA on EC2 instance with LI Windows or BYOL SQL Server on Dedicated host with BYOL Windows (as long as Windows license is purchased before 10/1/2019)

Frequently asked questions and open Q&A

Frequently asked questions

- How does EOS affect my existing instances and Amazon Machine Images (AMIs) on AWS?
- Can I launch new instances that include EOS software from my custom AMIs?
- Can I import images that contain EOS software into AWS using AWS tools?

Please ask your questions

How does EOS affect my existing instances on AWS?

- There is no direct impact to existing instances. Customers can continue to start, run, and stop instances.
- Microsoft will not provide patches for EOS products unless customers purchase extended security updates.

Can I launch new instances that include EOS software from my custom AMIs?

Yes.

There is no direct impact to existing AMIs registered in customer accounts.

AWS will not publish or distribute managed AWS Windows AMIs that contain EOS software to AWS Management Console, Quick Start, or AWS Marketplace.

Customers with dependencies on managed AWS Windows AMIs impacted by EOS should consider their options, including creating custom AMI(s) within their AWS account(s) to enable new instance launches. Learn more about custom AMI creation [here](#).

Can I import images that contain EOS software into AWS using AWS tools?

Yes, customers can continue to import images to AWS using VM import/export (VMIE), AWS Server Migration Service (SMS), or CloudEndure

Resources

Important links:

EMP for Windows Server: <https://aws.amazon.com/emp-windows-server>

End of support FAQ: <https://aws.amazon.com/windows/faq>

Related sessions:

WIN301: Modernizing Microsoft SQL Server on AWS

WIN302: Migrating Microsoft Applications to AWS like an expert

WIN318: Manage your Microsoft licenses on-premises and in the cloud

Thank you!

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