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MIG008

Modernizing Microsoft workloads - Strategies and tools to go cloud native

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Agenda

Modernizing Microsoft workloads: why do it on AWS?

Refactoring strategies & tools, that help you go cloud native

Demo: Microservice extractor for .NET



Modernizing Microsoft workloads: Why do it on AWS?



Why modernize on AWS?











Modernization pathways on AWS

NFT applications

SOL databases Rehost

MIGRATE

Self-managed apps and databases run on virtual machines (VMs) No code changes



Amazon EC2 Windows



Microsoft SOL Server on Amazon EC2 Windows Replatform

CONTAINERIZE

Automation and CI/CD Portability and predictability Minimal code changes







EKS

AWS Amazon ECS Fargate

Amazon

Refactor

NFT 6+

License freedom Performance and security Cross-platform



SERVERLESS

Pay as you go

Build fast

Scale

AWS Lambda

MOVE TO MANAGED

Managed provisioning, backups, patching, monitoring, and scaling No code changes



Amazon RDS for SQL Server

CLOUD NATIVE

High performance and scalability Saves on licensing costs









Amazon Amazon Aurora DynamoDB

Amazon Amazon Neptune Redshift



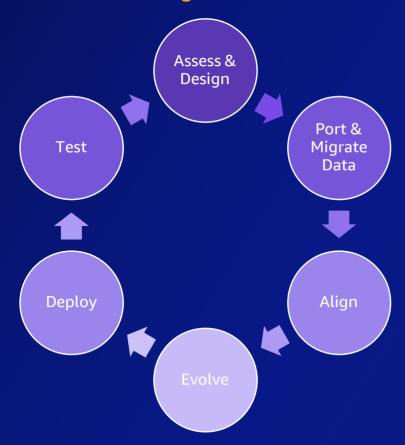
Refactoring strategies & tools: To go cloud native



Refactoring strategies

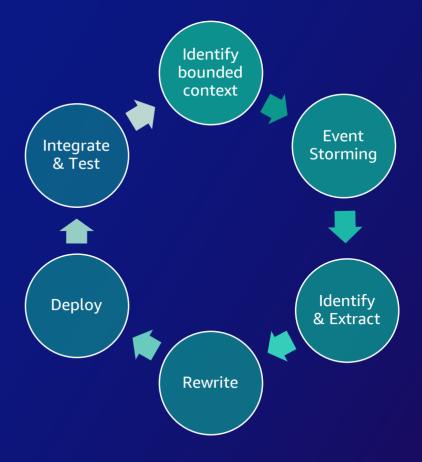
Cloud Optimized

Move to Managed Cloud Services



Cloud Native

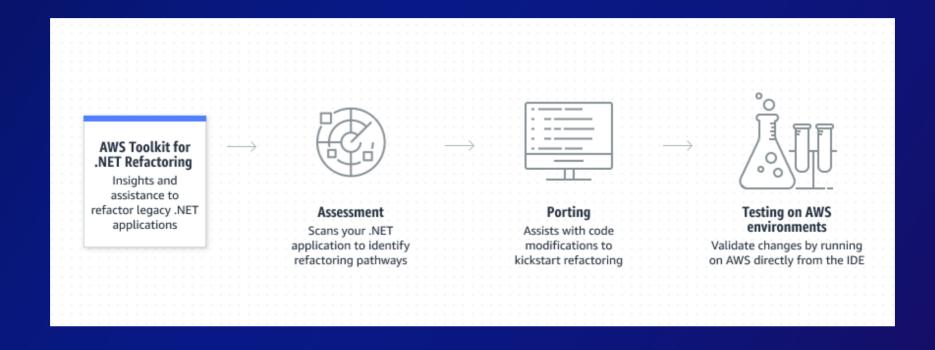
Re-architect to Microservices





AWS Toolkit for .NET Refactoring

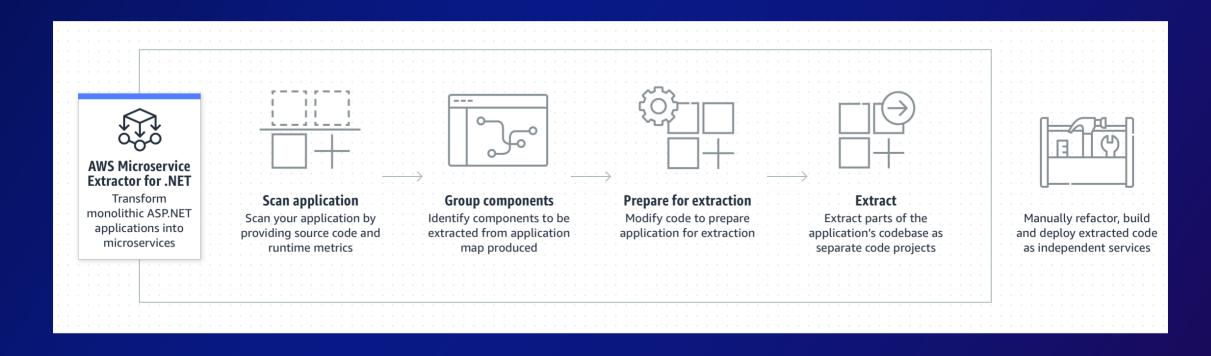
AWS Toolkit for .NET Refactoring is an extension for Microsoft Visual Studio that reduces the time and effort that is required to refactor legacy .NET applications to alternatives on AWS Cloud.





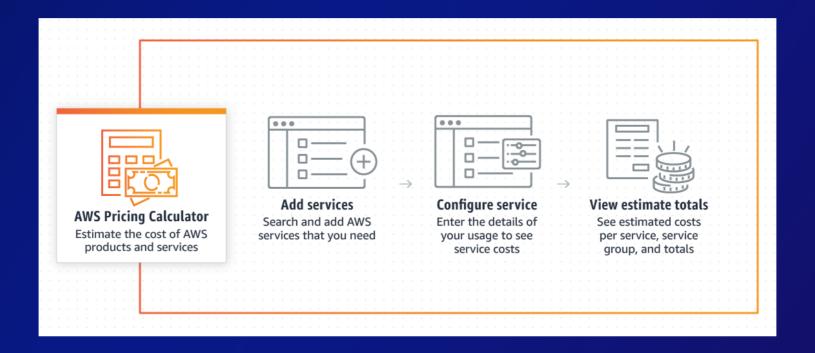
AWS Microservice Extractor for .NET

Microservice Extractor for .NET simplifies the process of refactoring older monolithic applications into smaller code projects to build a microservices-based architecture.



Modernization Calculator for Microsoft Workloads

AWS Modernization Calculator for Microsoft Workloads helps estimate the cost of modernizing your Microsoft workloads to a new architecture that uses open-source software and cloud-based services in the AWS cloud.





ProServe offerings

ALIGN

Application Modernization Assessment



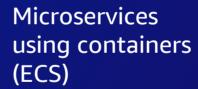
.NET Application Modernization Discovery



Application Modernization Lab (AML) Windows



Monolith To Microservice **Modernization With** Serverless







Demo: Microservice Extractor for .NET



Our Application: Gadgets Online



Mobile Phones Laptops Desktops Audio Accessories



Our best selling Gadgets Online.



Phone 12



Phone 13 Pro



Phone 13 Pro Max



XTS 13'



PC 15.5'



ShoppingCart

Notebook 14



Monolith architecture



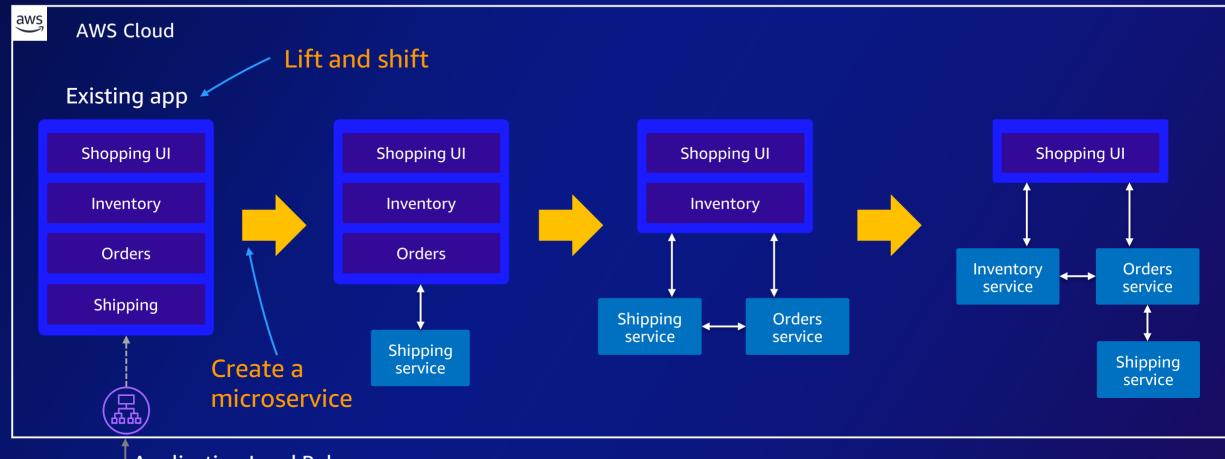


Demo

- Verify the monolith application is running on Amazon EC2
- Use AWS Microservice Extractor for .NET to extract 1 microservice, from monolith application and move it to new Git repository
- Deploy the extracted microservice to Amazon ECS
- Deploy the modified monolith application code to Amazon EC2
- Test application to verify integrity with extracted Microservice



The step-by-step journey

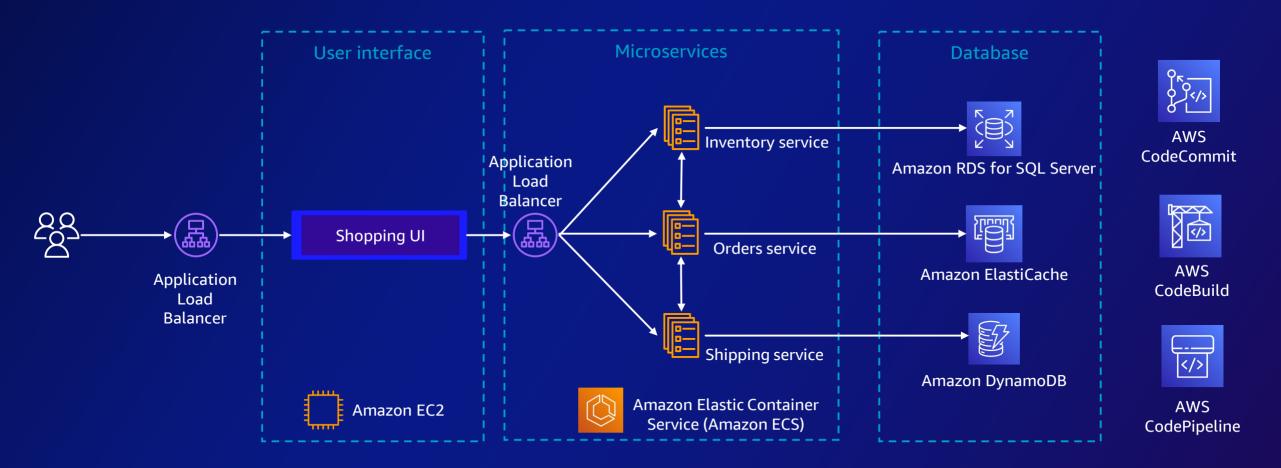








Microservices architecture





Takeaway

- Why & How to modernize Microsoft workloads on AWS
- AWS prescriptive guidance & Tools, to get you going
- Explore AWS Microservice Extractor for .NET
- Port from .NET Framework to .NET, for best results
- Visit https://aws.amazon.com/windows/modernization/ to learn more





Your time is now Build in-demand cloud skills your way



Thank you!

Please complete the session survey

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