.NET CONF KOREA 2025

오프닝

닷넷 개발자들이 알아 두어야 할 AWS 클라우드의 모든 것

윤석찬

수석 테크에반젤리스트

AWS

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왜 AWS를 선택할까요?

지속 가능성

다양한 서비스

productivity

혁신 속도

커뮤니티

글로벌 서비스

신뢰성

민첩성

탄력성

고객 중심

비용

보안

성능 향상

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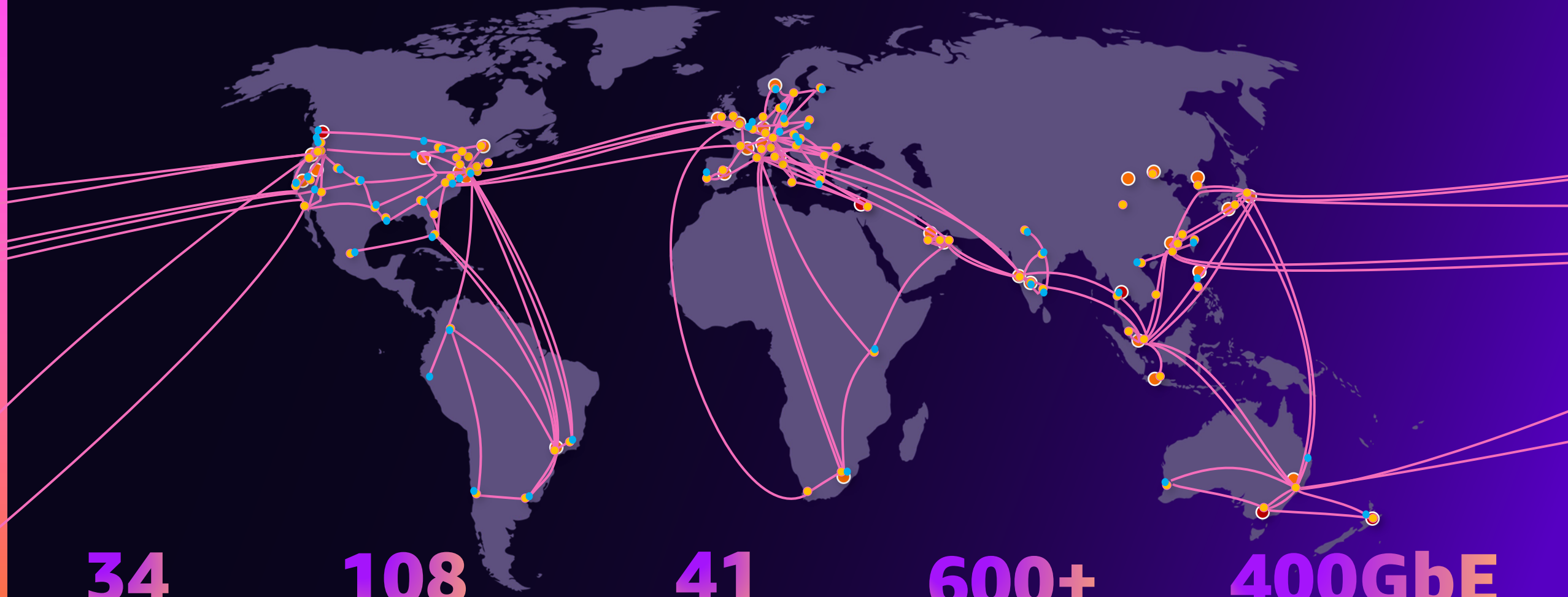
1. 안전하고 안정적인 글로벌 클라우드 인프라 제공



34
리전
6 출시 예정

108
가용 영역 (AZ)

41
로컬 존

600+
콘텐츠 배포 지점

400GbE
파이버 전용망

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https://aws.amazon.com/ko/about-aws/global-infrastructure/ (Jan. 2025)

2. 폭넓고도 깊이 있는 클라우드 서비스 제공

비용 관리	고객 지원	엔드유저 컴퓨팅	사물 인터넷	로봇/블록체인/VR 위성/양자컴퓨팅
3 SERVICES	5 SERVICES	4 SERVICES	9 SERVICES	5 SERVICES
인공 지능	미디어	개발자 도구	애플리케이션 통합	웹/모바일/게임
29 SERVICES	11 SERVICES	14 SERVICES	9 SERVICES	5 SERVICES
데이터 분석	관리 도구	보안 및 규정 준수	마이그레이션	비지니스 앱
19 SERVICES	27 SERVICES	24 SERVICES	9 SERVICES	12 SERVICES
컴퓨팅	컨테이너	스토리지	데이터베이스	네트워킹/CDN
11 SERVICES	4 SERVICES	7 SERVICES	11 SERVICES	11 SERVICES

220+ Services

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2. 폭넓고도 깊이 있는 클라우드 서비스 제공

Amazon EC2
App Runner
Batch
EC2 Global View
EC2 Image Builder
Elastic Beanstalk
Lambda
Lightsail
Outposts
Parallel Computing Service
Serverless Application Repository
SimSpace Weaver

컴퓨팅

11 SERVICES

Instance types (860)

Instance type finder | Actions

Find resources by attribute or tag

1 2 3 4 5 6 7 ... 18

Instance type	vCPUs	Architecture	Memory (GiB)	Storage (GB)		Network performance
u7in-32tb.224xlarge	896	x86_64	32768	-	-	200 Gigabit
u-24tb1.112xlarge	448	x86_64	24576	-	-	100 Gigabit
u7in-24tb.224xlarge	896	x86_64	24576	-	-	200 Gigabit
u-18tb1.112xlarge	448	x86_64	18432	-	-	100 Gigabit
u7in-16tb.224xlarge	896	x86_64	16384	-	-	200 Gigabit
u-12tb1.112xlarge	448	x86_64	12288	-	-	100 Gigabit
u7i-12tb.224xlarge	896	x86_64	12288	-	-	100 Gigabit
u-9tb1.112xlarge	448	x86_64	9216	-	-	100 Gigabit
u7i-8tb.112xlarge	448	x86_64	8192	-	-	100 Gigabit
u-6tb1.56xlarge	224	x86_64	6144	-	-	100 Gigabit

860+ Instance Types

500+ Instance types supporting .NET

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3. 고객 요구에 맞는 다양한 빌딩 블록 제공

PRIMITIVES | FULLY MANAGED | SERVERLESS

On-Premises → Cloud

컴퓨팅	Linux	EC2	Elastic Beanstalk	Elastic Container Service	Fargate	AWS Lambda
데이터베이스	MySQL	MySQL on EC2	RDS MySQL	Aurora	Aurora Serverless	DynamoDB
스토리지	Volume	EBS Volumes	FSx File Server		Elastic File Systems	S3
메시징	Message	RabbitMQ on EC2	Amazon MQ		Kinesis	SQS/SNS
데이터분석	Spark	Hadoop on EC2	EMR	Redshift	Glue	Athena
기계 학습	Generative AI	GPU Instances	SageMaker		Personalize	Bedrock

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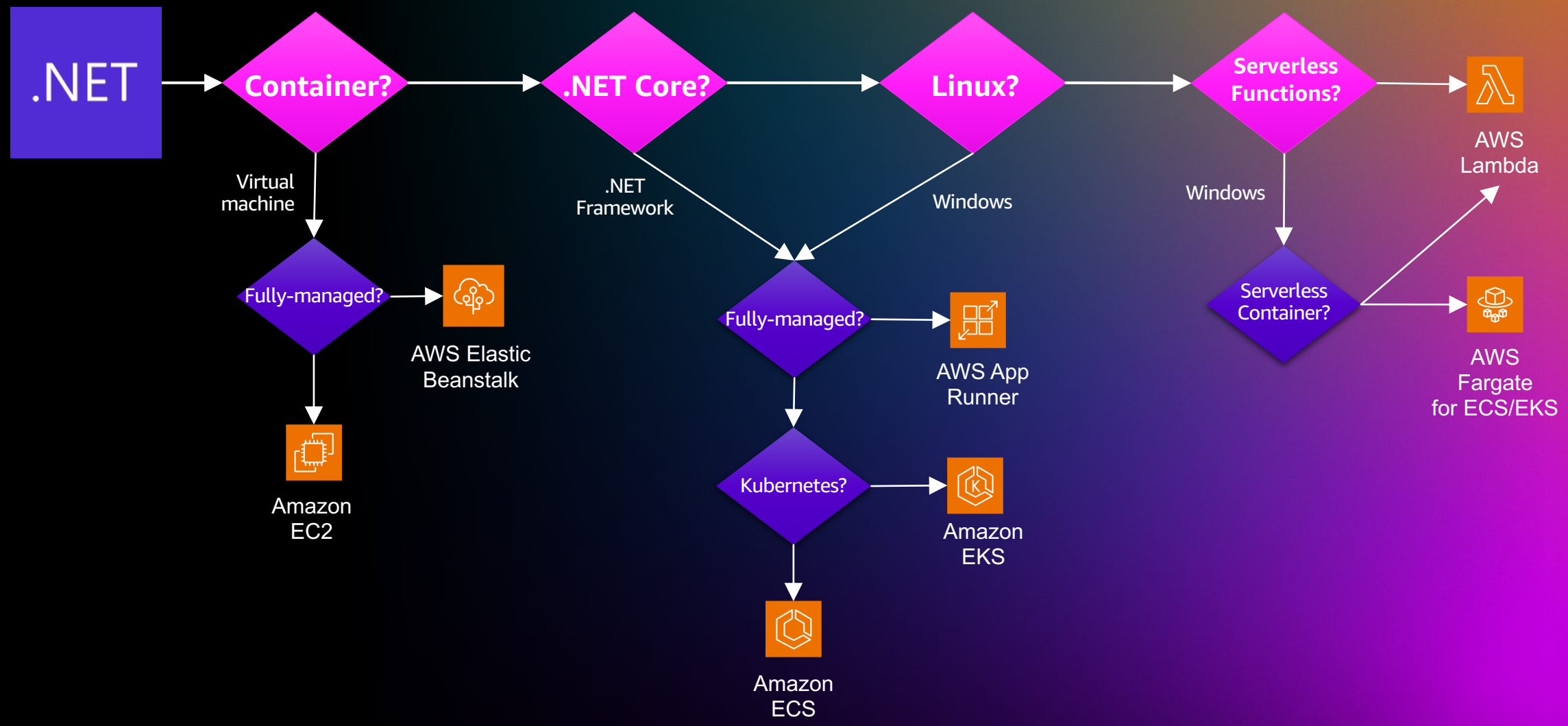
.NET 개발자를 위한 AWS 서비스 선택 방법



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.NET 개발자를 위한 AWS 기반 개발 도구

IDE Integration

- AWS Toolkit for Visual Studio
- AWS Toolkit for Visual Studio Code
- AWS Toolkit for Rider

Programmable SDK

- AWS SDK for .NET
- AWS CDK for .NET

Command Line Tools

- AWS CLI
- 'dotnet' CLI extensions
- AWS Tools for PowerShell
- AWS SAM

CI/CD Integration

- AWS Tools for Azure DevOps
- Amazon CodeCatalyst
- AWS CodePipeline/ CodeBuild

Migration / Modernization

- Amazon Q Developer Transform
- App2Container
- Microservice Extractor for .NET

https://aws.amazon.com/developer/language/net/

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546+

11-12월 총 What's New 항목

422

PRE RE:INVENT

124

RE:INVENT

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생성형 AI 피로감으로부터

1 기본으로 돌아가자!

COMPUTE

STORAGE

DATABASE

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1. 빌딩 블록에 충실한 컴퓨팅 서비스 제공

폭넓은 가격 대비
성능의 인스턴스

다양한 컨테이너
관리 방법 제공

자동화를 통한
관리 편의성

빠른 속도의
서버리스 컴퓨팅

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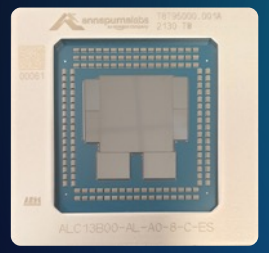
AWS Graviton – Arm 기반 극강의 가격 대비 성능 도전

2018

GRAVITON

2019

GRAVITON2



2021

GRAVITON3/3E

2023

GRAVITON4

+40%

이전 세대 대비
데이터베이스 성능 향상

+30%

이전 세대 대비
웹 애플리케이션 성능 향상

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Amazon EC2 I8g 인스턴스

NEW

스토리지 집약적인 워크로드에 최적화된 Graviton 4 기반의 인스턴스

GRAVITON4

60%

이전 세대 대비
컴퓨팅 성능

65%

이전 세대 대비
스토리지 성능

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Amazon EKS – 손쉬운 Kubernetes 클러스터 관리

NEW

AMAZON EKS

EKS AUTOMODE

싱글 클릭 배포

Kubernetes 클러스터 인프라 운영 자동화

EKS HYBRID NODES

온-프레미스 서버 활용

Kubernetes 클러스터 비용 감소

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Configure cluster

Configuration options - *new* Info

Choose how you would like to configure the cluster.

- (selected) **Quick configuration (with EKS Auto Mode) - *new***
  Quickly create a cluster with production-grade default settings. The configuration uses EKS Auto Mode to automate infrastructure tasks like creating nodes and provisioning storage.
- **Custom configuration**
  To change default settings prior to creation, choose this option. This configuration gives the option to use EKS Auto Mode and customize the cluster's configuration.

Cluster configuration

Name

Use the auto-generated name or enter a unique name for this cluster. This property cannot be changed after the cluster is created.

unique-dance-crow

The cluster name should begin with letter or digit and can have any of the following characters: the set of Unicode letters, digits, hyphens and underscores. Maximum length of 100.

Kubernetes version | Info

Select Kubernetes version for this cluster.

1.31

Cancel Create

AWS Lambda - 빠른 함수 구동 속도

NEW

AWS LAMBDA

SNAPSTART FOR JAVA

10배 이상

기존 대비 람다 함수 초기 구동 속도

SNAPSTART FOR PYTHON AND .NET

1초 미만

기존 대비 람다 함수 초기 구동 속도

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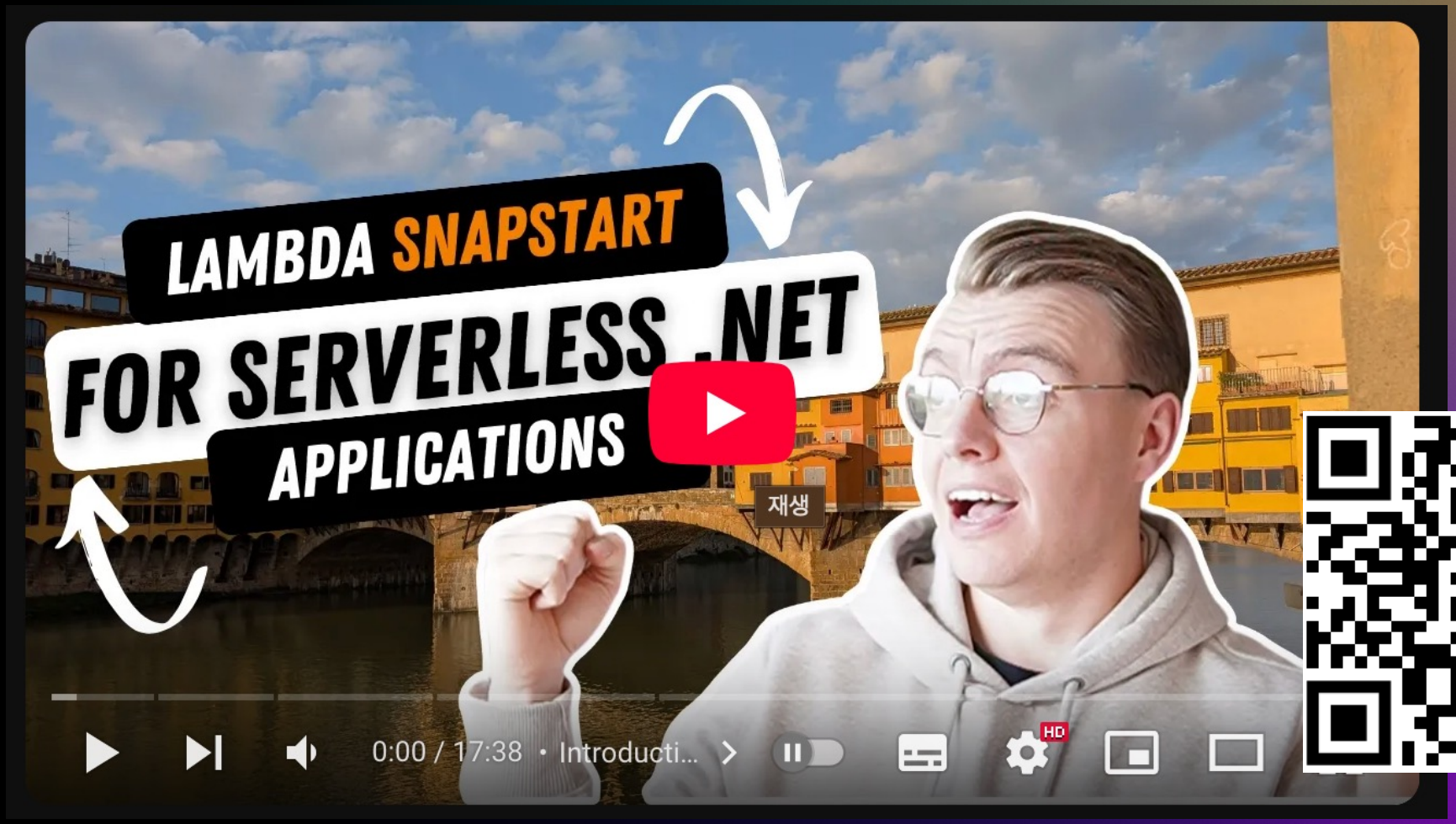
.NET기반 AWS Lambda SnapStart 활용 방법



https://www.youtube.com/watch?v=kKI6deWDkC4

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2. 데이터 저장소에서 분석 도구로 진화

Amazon S3

무제한 스토리지

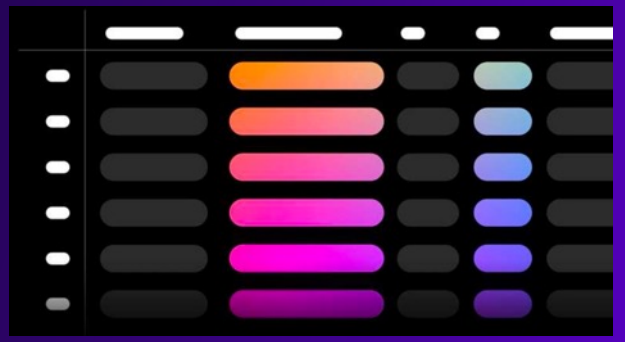
400조+

객체 저장

저장 요구사항에 따른
8개의 스토리지 클래스 제공

```
$ mount-s3 reinvent202022 mntdir/
$ tree mntdir/
mntdir/
├── reInvent_2020
│   ├── reInvent_keynote_2020.mp4
│   └── reInvent_ml_2020.mp4
├── reInvent_2021
│   ├── presentations
│   │   ├── Amazon-S3-performance.pdf
│   │   ├── Best-practices-for-managi
```

읽기 전용 대규모 데이터 세트를 위한
로컬 파일 시스템 마운트 기능



Parquet 데이터 초당 15백만이상 요청 발생
매일 수백 PB 처리

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Amazon S3 Tables

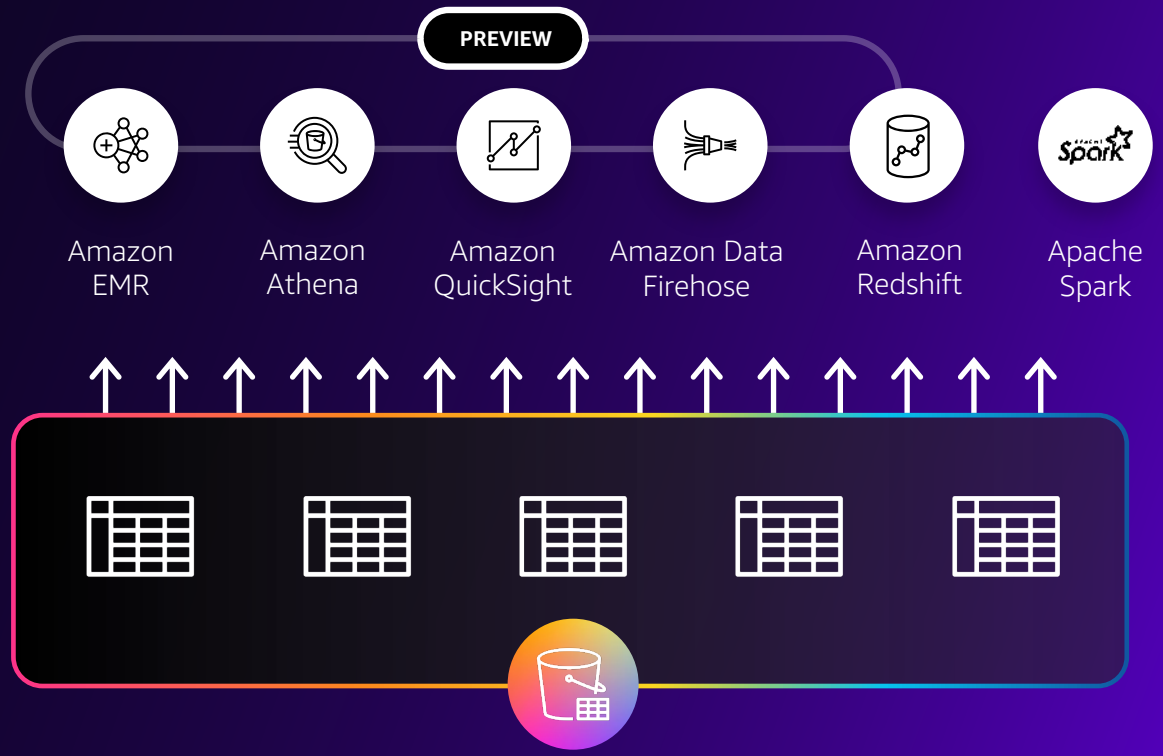
NEW

Apache Iceberg 테이블을 위한 완전 관리형 솔루션

자체 관리 테이블에 비해 최대 3배 빠른 쿼리 처리량과 10배 높은 초당 트랜잭션

Tabular 형식 데이터 저장 Bucket으로 테이블 수준 권한과 표준 SQL 지원

데이터 레이크가 확장에 따라 쿼리 효율성과 비용 최적화 지원



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Amazon S3 Metadata

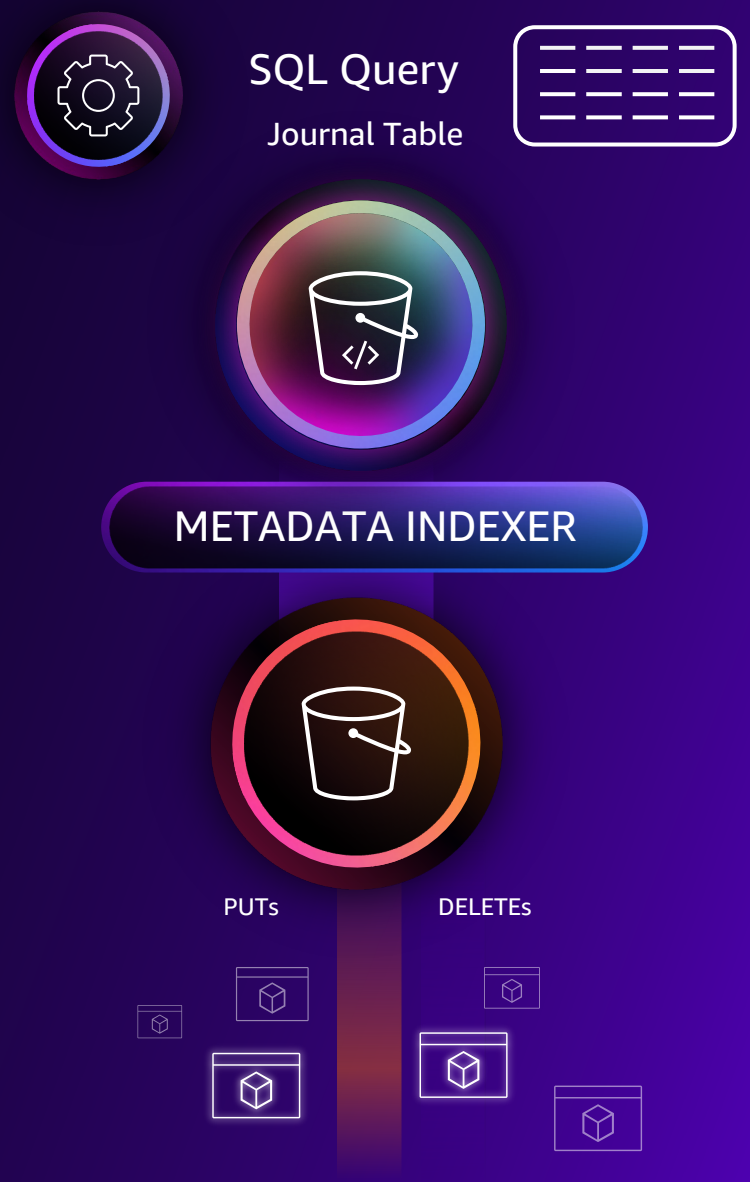
PREVIEW

SQL로 바로 쿼리할 수 있는 자동 객체 메타데이터 생성

시스템 메타데이터, 개체 태그 및 사용자 정의 메타데이터를 자동 생성

테이블 버킷의 완전 관리형 Iceberg 테이블에 저장됨

버킷에 데이터를 추가하면 거의 실시간으로 메타 데이터 생성



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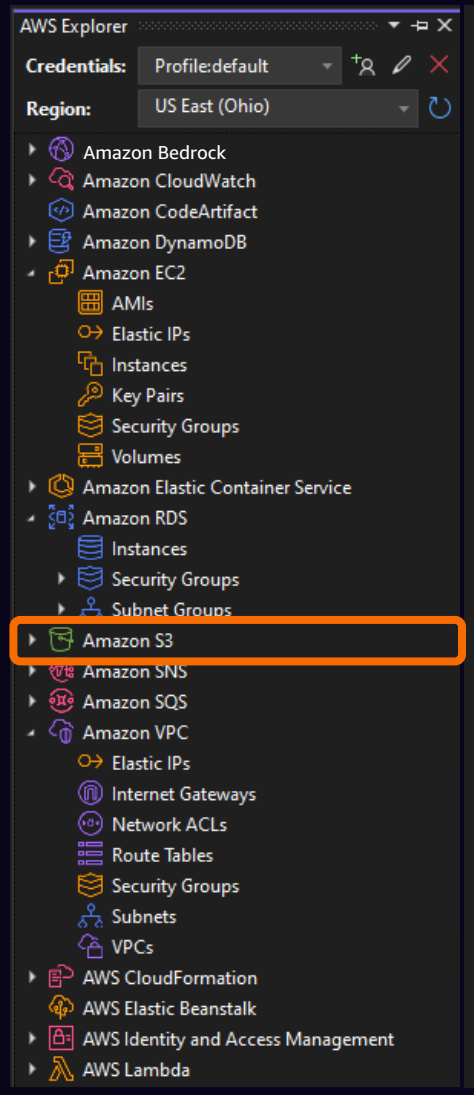
AWS SDK for .NET with Amazon S3




```
using System;
using System.Threading.Tasks;
using Amazon.S3;
using Amazon.S3.Model;

public async Task<string> PutObjectConditional(string objectKey, string bucket, string content)
{
    try
    {
        var putObjectRequest = new PutObjectRequest
        {
            BucketName = bucket,
            Key = objectKey,
            ContentBody = content,
            IfNoneMatch = "*"
        };

        var putResult = await _amazonS3.PutObjectAsync(putObjectRequest);
        _logger.LogInformation($"Successful for key {objectKey} in bucket {bucket}.");
        return putResult.ETag;
    }
    catch (AmazonS3Exception e)
    {
        if (e.ErrorCode == "PreconditionFailed")
        {
            _logger.LogError("Write failed: Precondition failed");
        }
        else
        {
            _logger.LogError($"Unexpected error: {e.ErrorCode}");
            throw;
        }
        return string.Empty;
    }
}
```

AWS SDK for .NET

PutObjectRequest

https://docs.aws.amazon.com/sdk-for-net/v3/developer-guide/csharp_s3_code_examples.html

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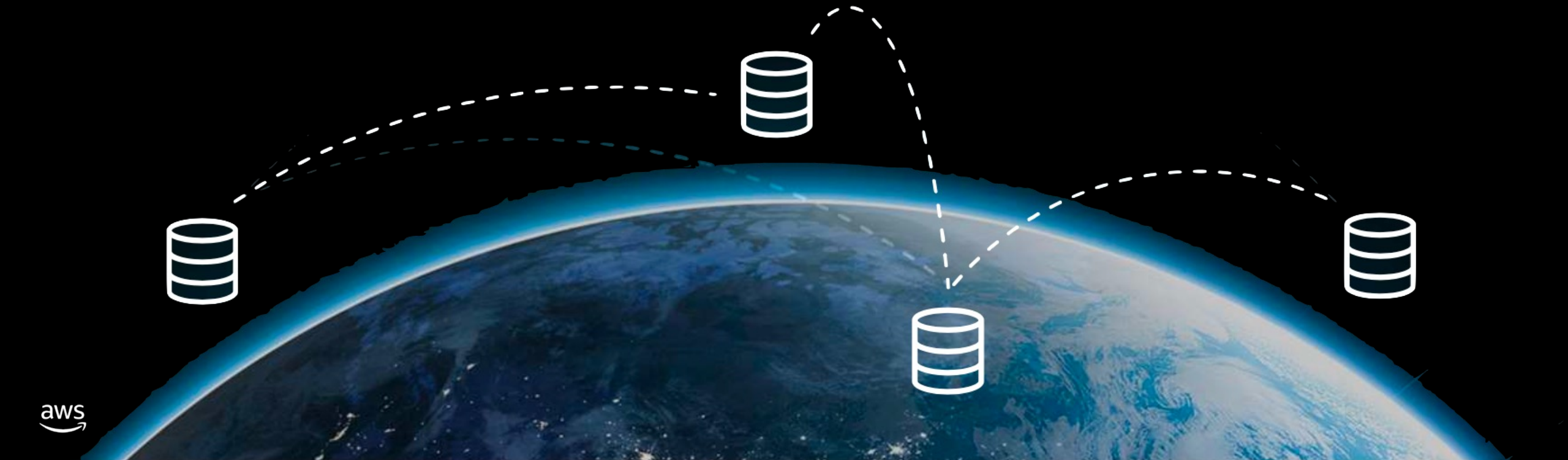
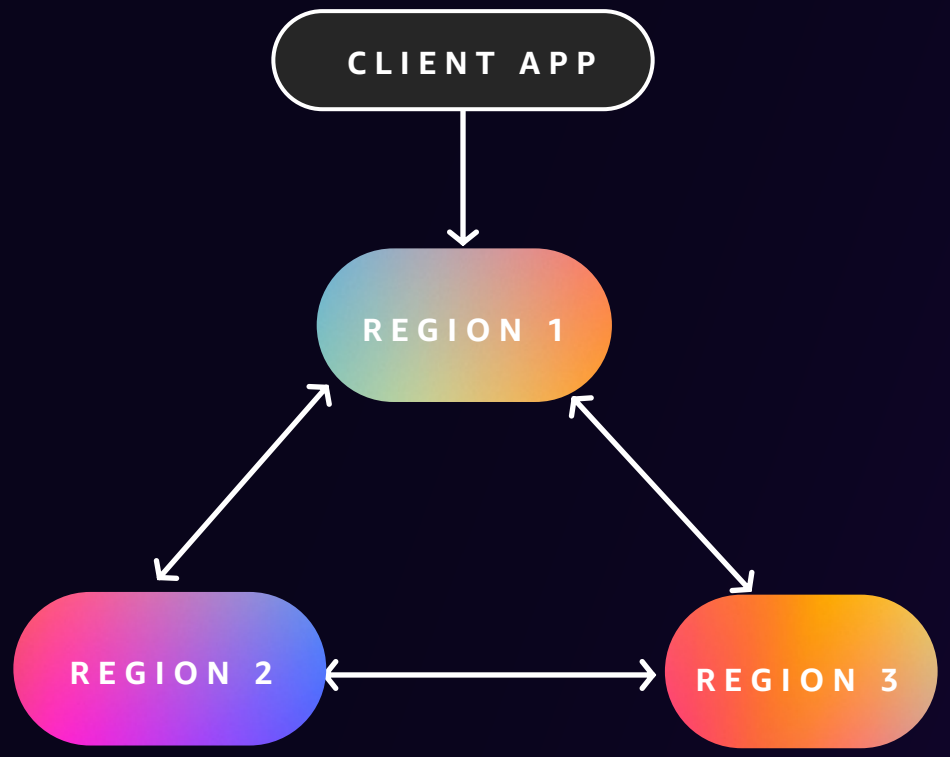
3. 글로벌 기반 고성능 데이터베이스 확대

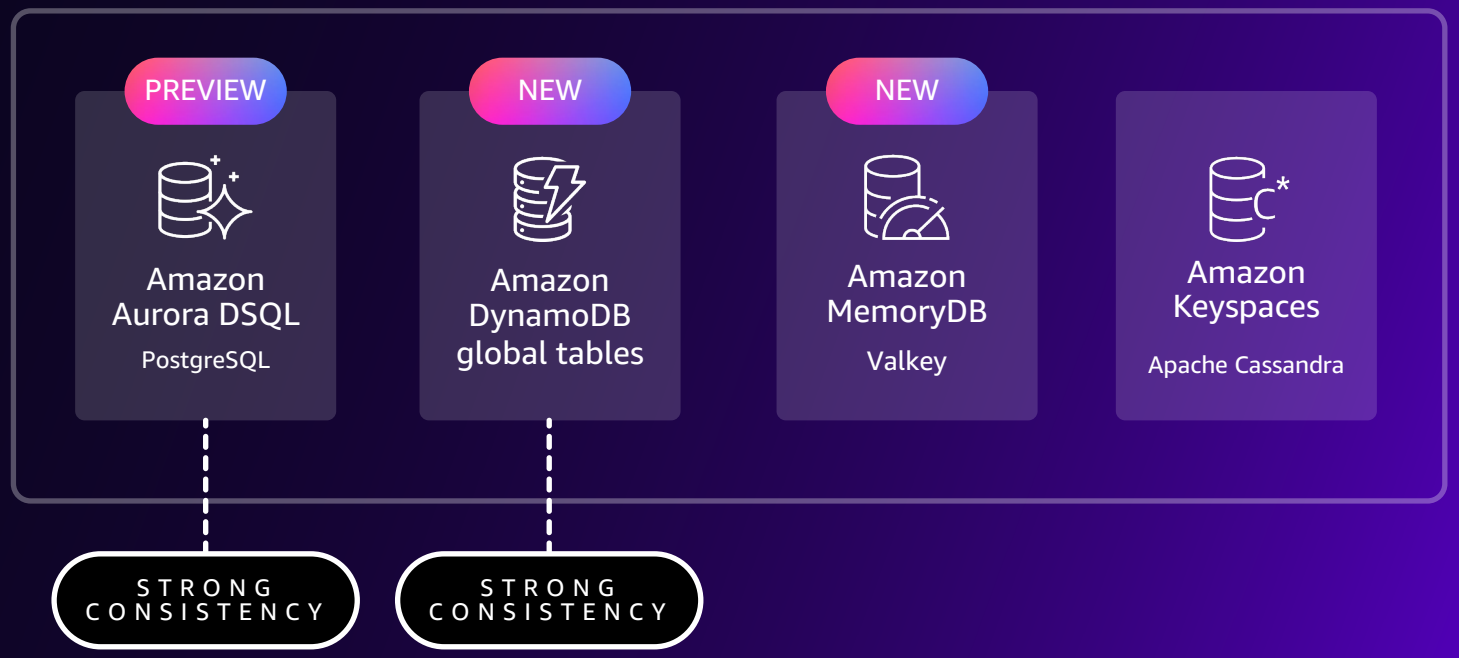
관계형		키-밸류	문서	캐싱	그래프	메모리	컬럼	시계열
Amazon RDS	Amazon Aurora	Amazon DynamoDB	Amazon DocumentDB	Amazon ElastiCache	Amazon Neptune	Amazon MemoryDB	Amazon Keyspaces	Amazon Timestream



aws

Active-active 멀티 리전 데이터베이스





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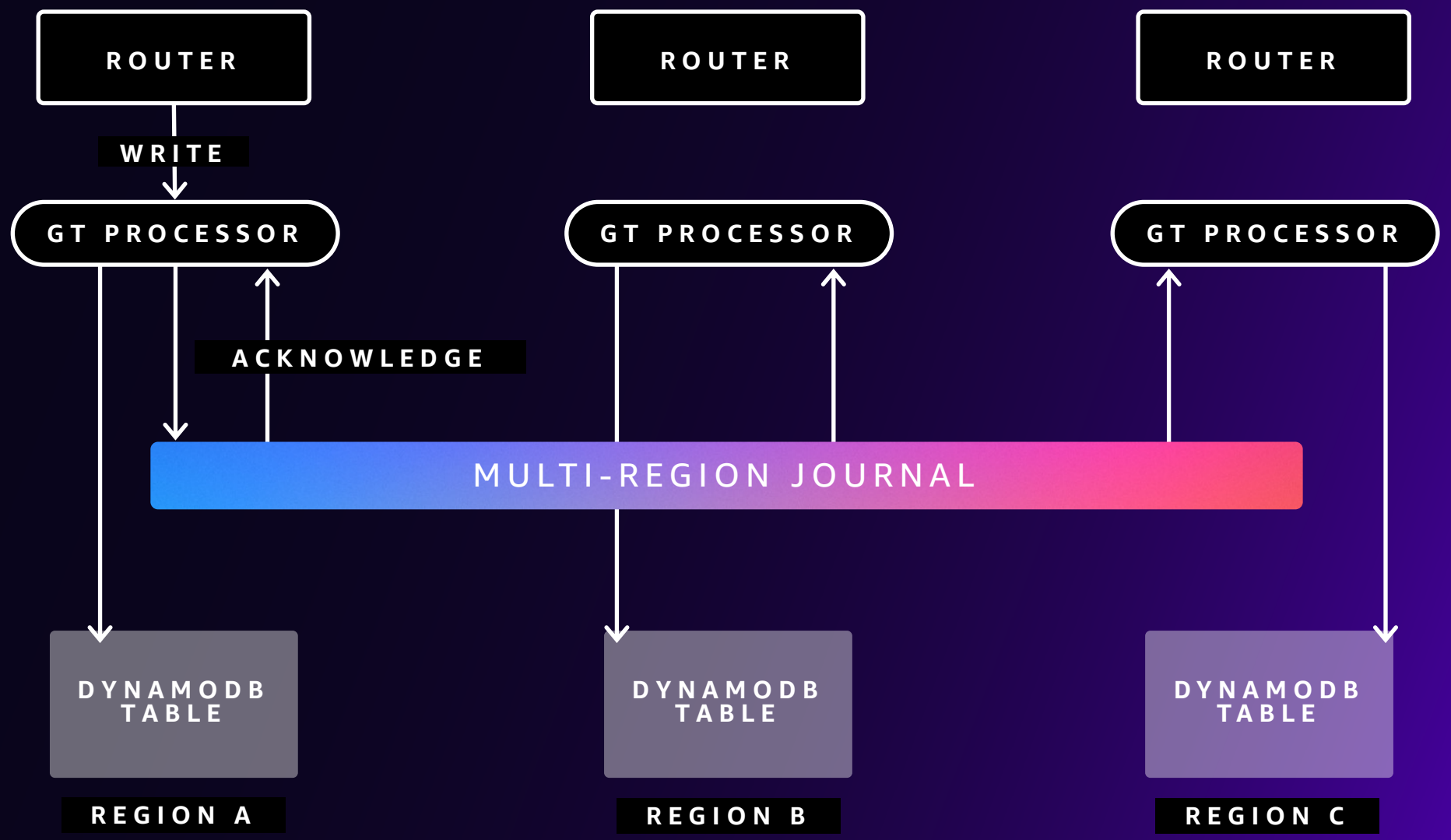
Amazon DynamoDB Global Tables – 쓰기 과정



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분산 관계형 데이터베이스 (RDB)의 경우

PESSIMISTIC LOCKING APPROACH

긴 과정이 필요함

```
SELECT * FROM food WHERE type = 'dog';
UPDATE dog SET hungry = 0 WHERE id = 7;
UPDATE food SET q = q - 1 WHERE id = 3;
COMMIT
```

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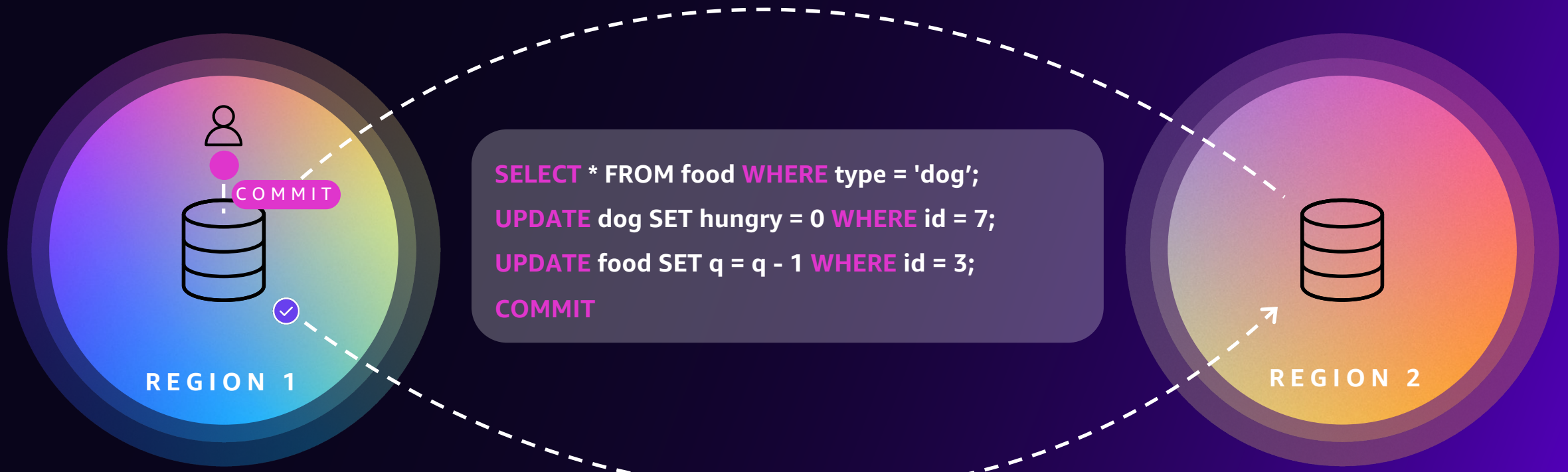
Amazon Aurora DSQL

PREVIEW

OPTIMISTIC “NO LOCK” APPROACH




```
SELECT * FROM food WHERE type = 'dog’;
UPDATE dog SET hungry = 0 WHERE id = 7;
UPDATE food SET q = q - 1 WHERE id = 3;
COMMIT
```

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Create cluster in us-east-1 (N. Virginia) Info

Your cluster is encrypted by default using AWS managed keys.

Cluster settings

Multi-Region Info

By adding linked Regions, any transactions that write data are replicated to all linked Regions you configure.

☐ Add linked Regions

Choose this option to select the Regions you want to link.

Deletion protection

Protects the cluster from accidental deletion. While this option is enabled, you can't delete the cluster. If the cluster is link
cluster because you can delete any of the clusters.

☐ Turn on deletion protection

Multi-Region Info

By adding linked Regions, any transactions that write data are re

☑ Add linked Regions

Choose this option to select the Regions you want to link.

Linked cluster Region

Aurora DSQL creates another cluster in the Region that you choo
Regions, so you can read and write from any linked cluster with

us-east-2 (Ohio)

Witness Region

The witness Region receives all data written to linked clusters. T
transaction logs. Aurora DSQL uses these capabilities to provide

us-west-2 (Oregon)

Tags Info

Tags are labels that you assign to resources. If a cluster has a Name tag and an associated value, Aurora D
help manage or filter for resources.

Key	Value - *optional*	
Name	dsql-cluster-01-06@02:50	Remove

Add new tag

You can add 49 more tags.

Cancel Create cluster

.NET to interact with Amazon Aurora DSQL

1. Aurora DSQL cluster 연결하기

```
using Amazon.Runtime;
using Amazon.Runtime.Internal;
using Amazon.Runtime.Internal.Auth;
using Amazon.Runtime.Internal.Util;

public static class TokenGenerator
{
    public static string GenerateAuthToken(string? hostname, Amazon.RegionEndpoint re
    {
        AWSCredentials awsCredentials = FallbackCredentialsFactory.GetCredentials();

        string accessKey = awsCredentials.GetCredentials().AccessKey;
        string secretKey = awsCredentials.GetCredentials().SecretKey;
        string token = awsCredentials.GetCredentials().Token;

        const string DsqlServiceName = "dsql";
        const string HTTPGet = "GET";
        const string HTTPS = "https";
        const string URISchemeDelimiter = "://";
        const string ActionKey = "Action";
        const string ActionValue = "DbConnectAdmin";
        const string XAmzSecurityToken = "X-Amz-Security-Token";

        ImmutableCredentials immutableCredentials = new ImmutableCredentials(accessKe
        ArgumentNullException.ThrowIfNull(region);

        hostname = hostname?.Trim();
        if (string.IsNullOrEmpty(hostname))
            throw new ArgumentException("Hostname must not be null or empty.");

        GenerateDsqlAuthTokenRequest authTokenRequest = new GenerateDsqlAuthTokenRequ
        IRequest request = new DefaultRequest(authTokenRequest, DsqlServiceName)
        {
            UseQueryString = true,
            HttpMethod = HTTPGet
        };
        request.Parameters.Add(ActionKey, ActionValue);
        request.Endpoint = new UriBuilder(HTTPS, hostname).Uri;
```

2. SQL문 실행하기

```
using Npgsql;
using Amazon;

class Example
{
    public static async Task Run(string clusterEndpoint)
    {
        RegionEndpoint region = RegionEndpoint.USEast1;

        // Connect to a PostgreSQL database.
        const string username = "admin";
        // The token expiration time is optional, and the default value 900 seconds
        string password = TokenGenerator.GenerateAuthToken(clusterEndpoint, region);
        const string database = "postgres";
        var connString = "Host=" + clusterEndpoint + ";Username=" + username + ";Password=

        var conn = new NpgsqlConnection(connString);
        await conn.OpenAsync();

        // Create a table.
        using var create = new NpgsqlCommand("CREATE TABLE IF NOT EXISTS owner (id UUID PI
        create.ExecuteNonQuery();

        // Create an owner.
        var uuid = Guid.NewGuid();
        using var insert = new NpgsqlCommand("INSERT INTO owner(id, name, city, telephone
        insert.Parameters.AddWithValue("id", uuid);
        insert.Parameters.AddWithValue("name", "John Doe");
        insert.Parameters.AddWithValue("city", "Anytown");

        insert.Parameters.AddWithValue("telephone", "555-555-0190");

        insert.ExecuteNonQuery();

        // Read the owner.
        using var select = new NpgsqlCommand("SELECT * FROM owner where id=@id", conn);
        select.Parameters.AddWithValue("id", uuid);
        using var reader = await select.ExecuteReaderAsync();
        System.Diagnostics.Debug.Assert(reader.HasRows, "no owner found");
```

Npgsql 8.0.5

Prefix Reserved

.NET 6.0 | .NET Standard 2.0

https://docs.aws.amazon.com/aurora-dsql/latest/userguide/SECTION_program-with-net.html

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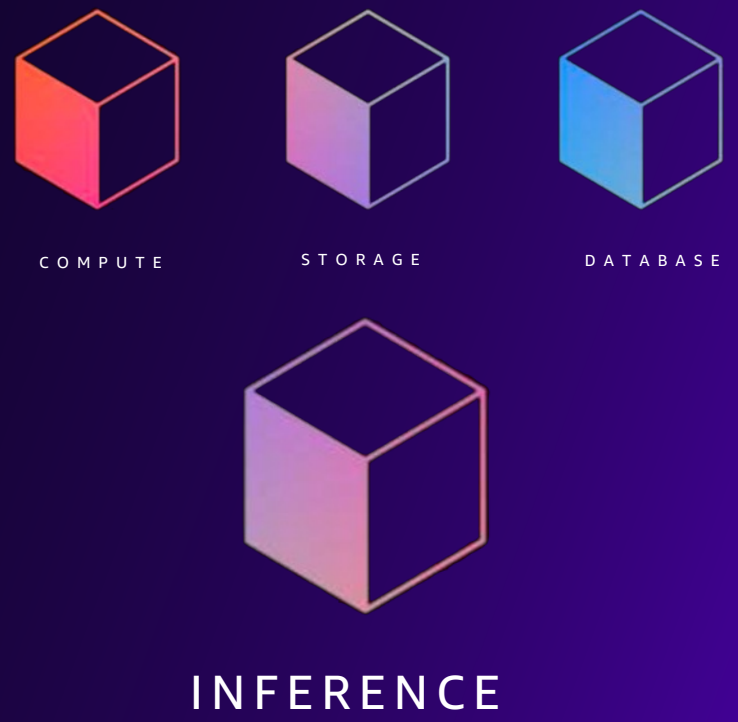
새로운 앱 빌딩 블록으로서

2 생성형 AI 가치 실현



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생성형 AI를 위한 3가지 서비스 계층

일반 개발자 및 비 개발자

생성형 AI 앱 개발자

대규모 언어 모델 개발자

파운데이션 모델을 활용한 애플리케이션

Amazon Q Business | Amazon Q Developer | Amazon Q in Quicksight
in Connect
In SupplyChain

파운데이션 모델을 이용한 애플리케이션 개발 도구

Amazon Bedrock

Foundation models | Agents | Knowledge Base | Guardrails | Fine tuning

파운데이션 모델 훈련 및 추론을 위한 인프라

GPUs | Trainium | Inferentia | SageMaker

UltraClusters | EFA | EC2 Capacity Blocks | Nitro | Neuron

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1. 생성형 AI를 위한 가속 컴퓨팅 성능 향상

하드웨어 가속기를 사용하는 생성형 AI 워크로드에 최적화된 Amazon EC2 인스턴스

생성형 AI 모델 훈련 및 추론

포괄적이고 안전하며 가격 대비 성능이 뛰어난 컴퓨팅 제공

P4d NVIDIA A100-40GB	**P4de** NVIDIA A100-80GB	**P5** NVIDIA H100	**P5e** NVIDIA H200	**P5en** NVIDIA H200 NEW
G5 NVIDIA A10G	**G6** NVIDIA L4	**G6e** NVIDIA L40s	**Trn1** AWS Trainium	**Trn2** AWS Trainium2 NEW
Inf1 AWS Inferentia	**Inf2** AWS Inferentia2	**DL1** Intel Gaudi1	**DL2q** Qualcomm AI100	

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Amazon EC2 Trn2 인스턴스

NEW

생성형 AI 훈련과 추론을 위한 가장 강력한 인스턴스

- 수천억에서 수조 개 이상의 매개변수 가진 모델을 훈련 및 추론
- GPU 기반 EC2 P5e 및 P5en 인스턴스보다 30~40% 더 나은 가격/성능

16 Trainium2 칩	**20.8** FP8 페타플롭스
3.2 Tbps EFA 네트워킹	**1.5** TB HBM 용량
46 TB/s 메모리 대역폭	

Apple | Adobe | poolside | databricks | Qualcomm

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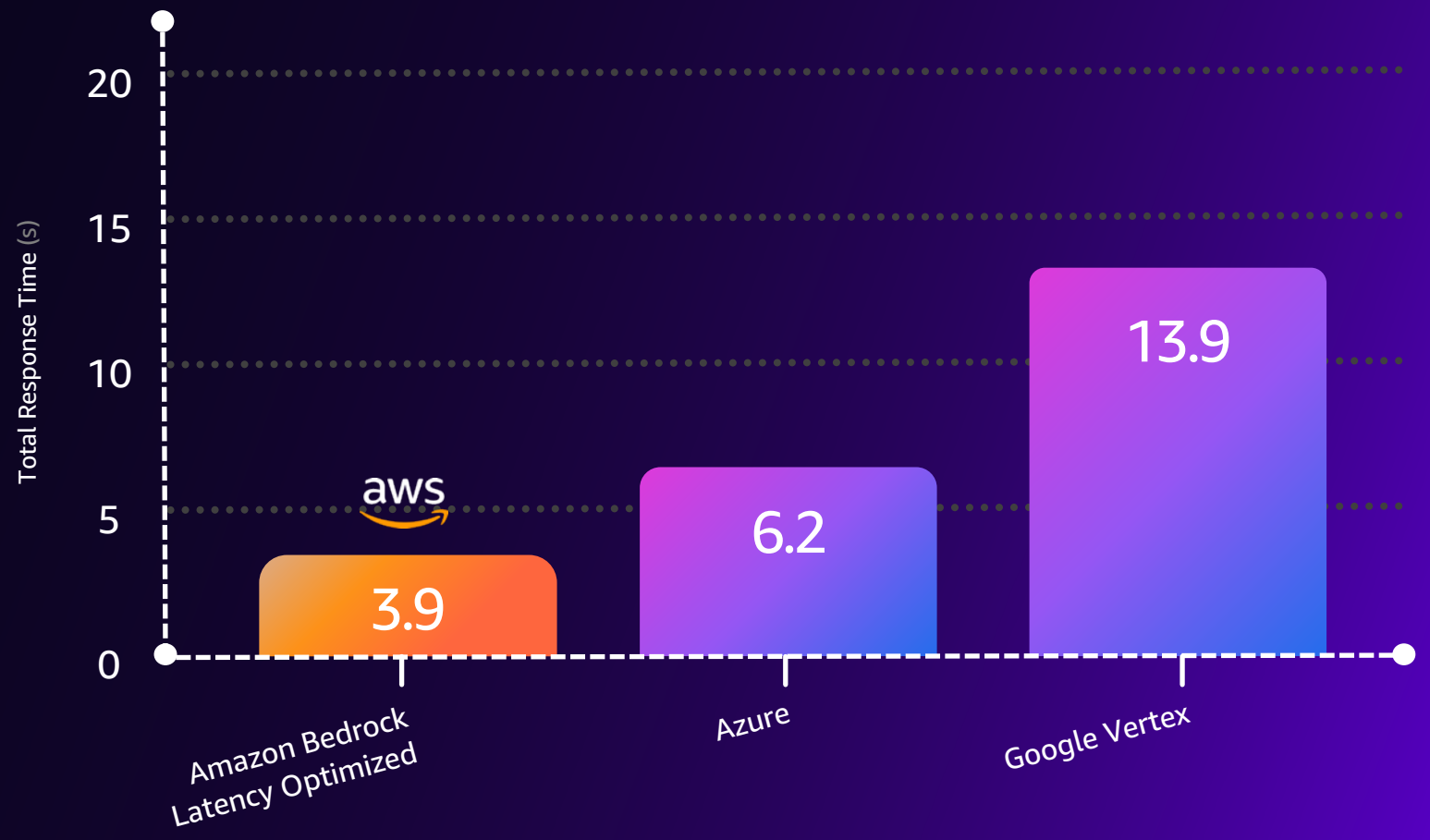
Llama 3.1 405B
on Trn2 Instances

3.9s

TIME TO OUTPUT 100 TOKENS
(10K INPUT TOKENS)



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Amazon EC2 Trn2 Ultra Servers

PREVIEW

딥러닝 및 생성형 AI 를 위한 획기적인 성능 제공

4 대의 Trn2 인스턴스를 NeuronLink-v3 로 연결

64
Trainium2
칩

83
PFLOPS
DENSE COMPUTE

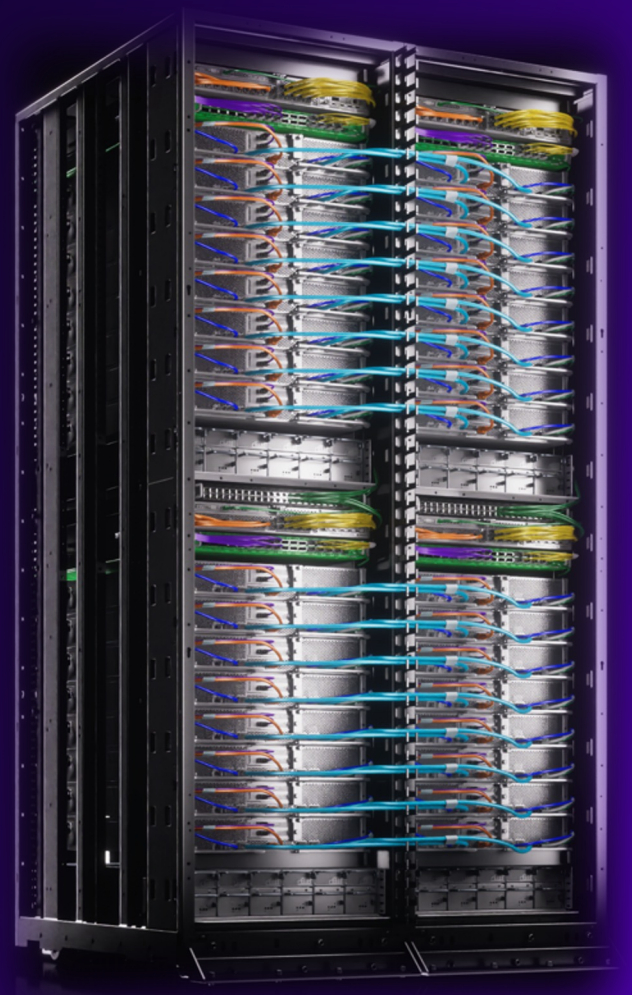
185
TB/s
HBM 대역폭

6
TB
HBM 용량

2
TB/s
NEURONLINK
대역폭

12.8
Tb/s
네트워크 대역폭

ANTHROP\C



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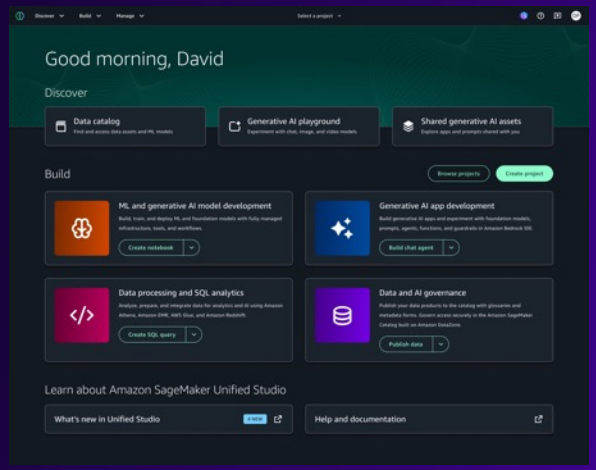
2. 데이터 ·분석 ·인공지능 통합 솔루션 제공

차세대 Amazon SageMaker 플랫폼

Unified Studio

Data 처리	SQL 분석	Model 개발	Gen AI 앱 개발	스트리밍	검색	비즈니스 인텔리전스
				coming soon	coming soon	coming soon



Data & AI Governance

Centralized permission, guardrails, monitoring

DataZone 기반 SageMaker Catalog를 통해 단일 권한 모델을 제공하고, Bedrock의 가드레일로 AI 모델을 보호하고 책임 있는 AI 정책 구현

Lakehouse

Zero-ETL, Federation, Sharing

단일 데이터 복사본을 사용하여 데이터 웨어하우스, 데이터 레이크, 운영 데이터베이스 및 애플리케이션 전반의 데이터 통합

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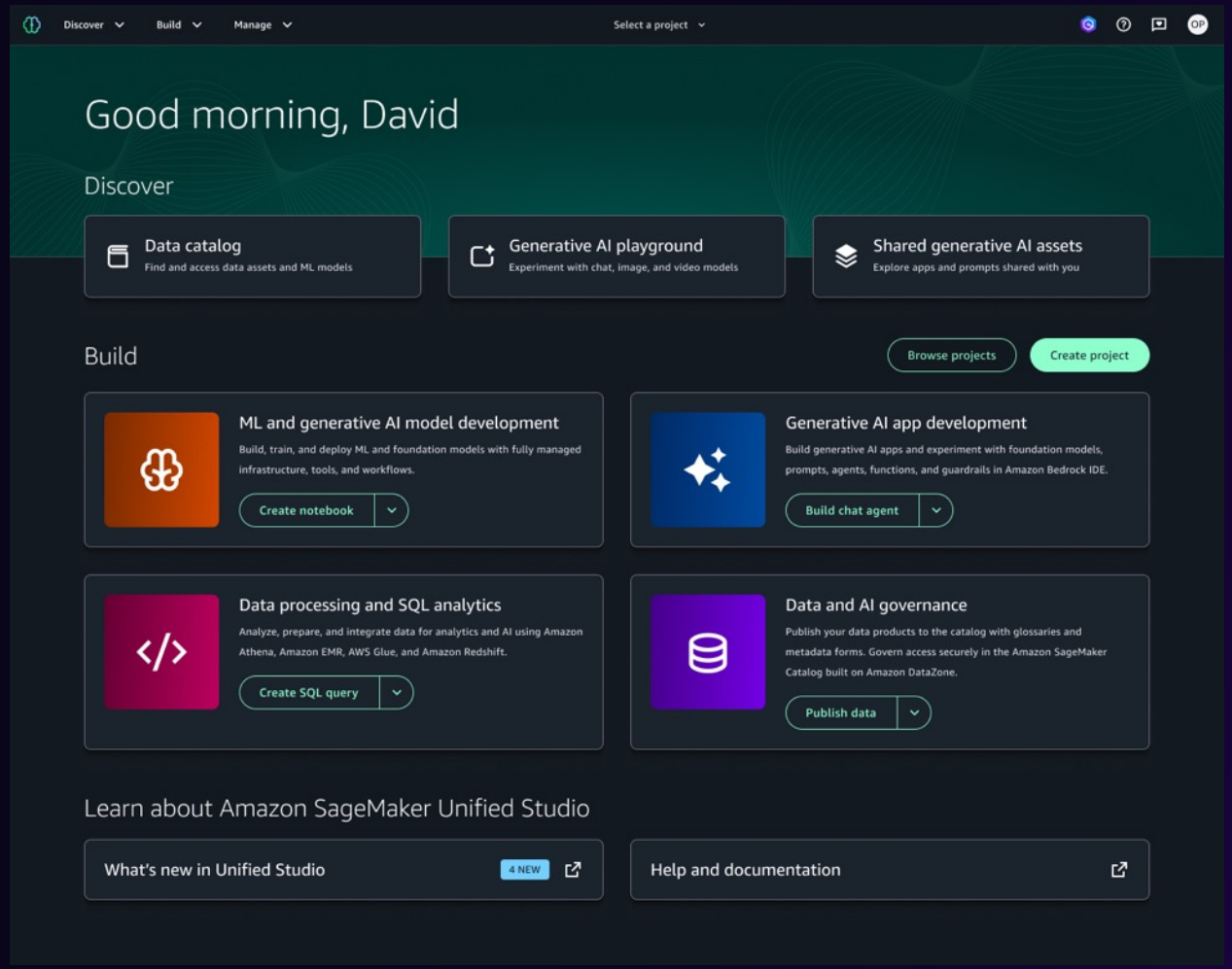
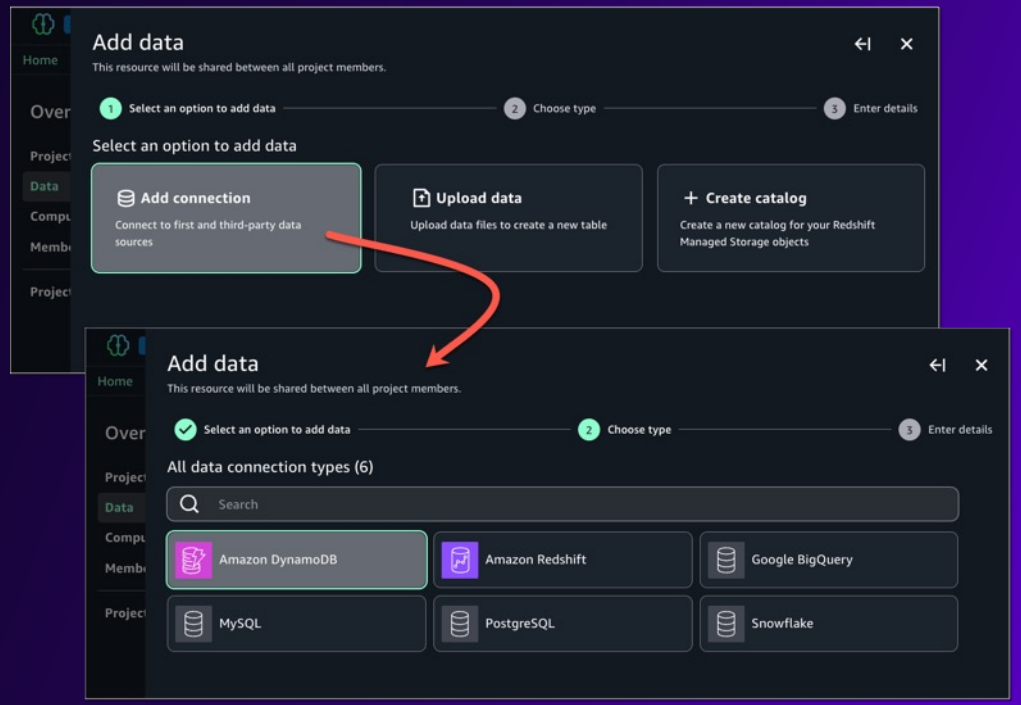
Amazon SageMaker Unified Studio

PREVIEW

통합된 데이터 처리, 분석 및 AI 개발 환경 제공





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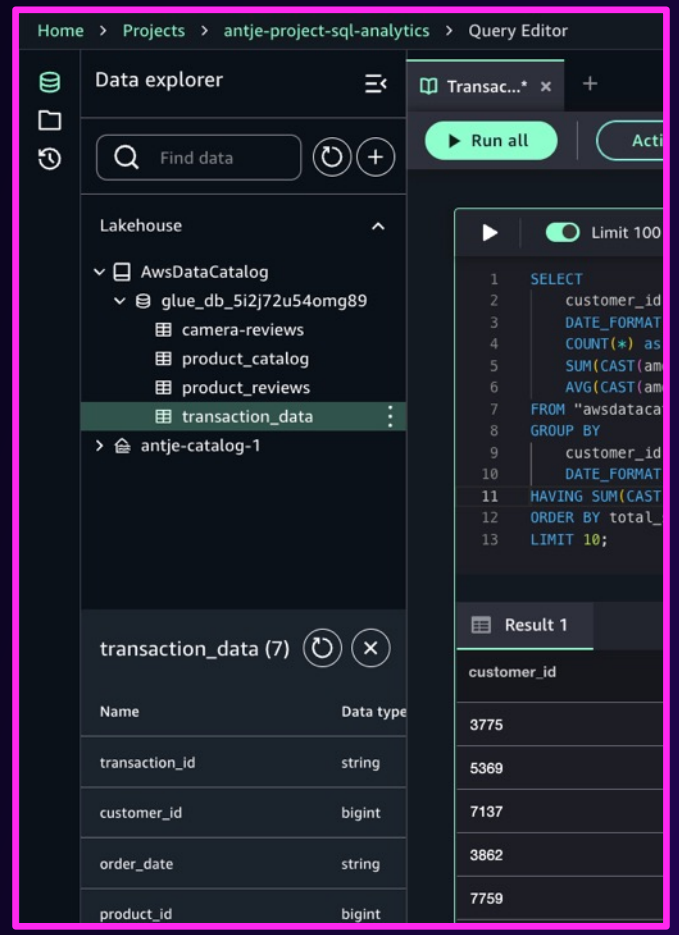
Amazon SageMaker Unified Studio

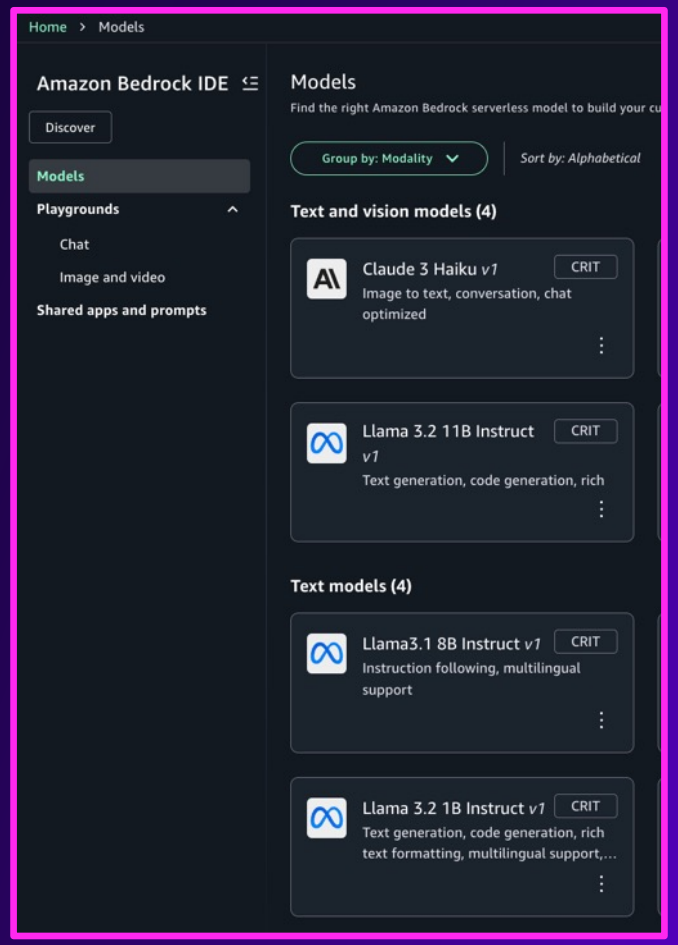
PREVIEW

모든 데이터에 접근 가능한 다양한 도구 제공

JUPYTER NOTEBOOKS



LAKEHOUSE SQL EDITOR



BEDROCK IDE (preview)

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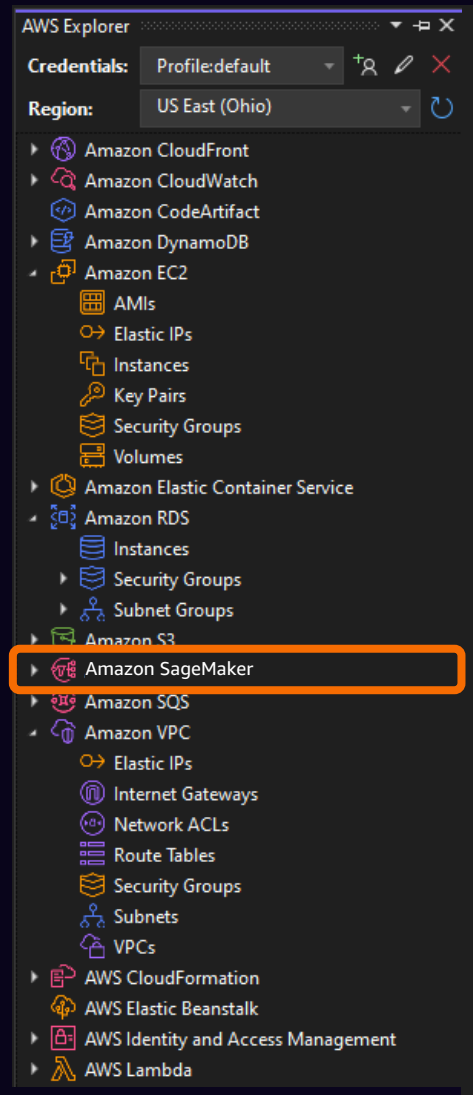
AWS SDK for .NET with Amazon SageMaker AI




```
// Hello World for Amazon SageMaker AI

using System;
using System.Collections.Generic;
using Amazon.SageMaker;
using Amazon.SageMaker.Model;

namespace SageMakerActions;

public static class HelloSageMaker
{
    static async Task Main(string[] args)
    {
        var sageMakerClient = new AmazonSageMakerClient();

        Console.WriteLine($"Hello Amazon SageMaker! List your notebook instances:");
        Console.WriteLine();

        // You can use await and any of the async methods to get a response.
        // Let's get the first five notebook instances.
        var response = await sageMakerClient.ListNotebookInstancesAsync(
            new ListNotebookInstancesRequest()
            {
                MaxResults = 5
            });

        if (!response.NotebookInstances.Any())
        {
            Console.WriteLine($"No notebook instances found.");
        }

        foreach (var notebookInstance in response.NotebookInstances)
        {
            Console.WriteLine($"\tInstance: {notebookInstance.NotebookInstanceName}");
            Console.WriteLine($"\tArn: {notebookInstance.NotebookInstanceArn}");
            Console.WriteLine($"\tCreation Date: {notebookInstance.CreationTime.ToShortDateString()}");
            Console.WriteLine();
        }
    }
}
```

Client

Request object

Process Result

AWS SDK for .NET

https://docs.aws.amazon.com/sdk-for-net/v3/developer-guide/csharp_sagemaker_code_examples.html

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3. 폭넓은 크기 및 기능별 파운데이션 모델 선택 제공

Amazon Bedrock

AI21labs

긴 컨텍스트 윈도우에 대한 효과적인 추론 및 신속한 분석

JAMBA

amazon

지연 시간이 짧은 프론티어 멀티모달 인텔리전스, 에이전트 및 RAG 애플리케이션, 고품질 이미지 및 비디오 생성

AMAZON NOVA

ANTHROP\C

컴퓨터 사용 기술을 포함한 고급 추론 및 코딩 능력

CLAUDE

cohere

다국어 지식 에이전트를 지원하는 멀티모달 검색 및 고급 검색 기능

COMMAND

EMBED

RERANK

Luma

텍스트와 이미지로 고품질 동영상 생성

LUMA RAY 2

Meta

고급 이미지 및 언어 추론

LLAMA

MISTRAL AI_

지식 요약, 전문가 에이전트 및 코드 완성

MISTRAL

MIXTRAL

poolside

대규모 엔터프라이즈를 위한 소프트웨어 엔지니어링 AI

MALIBU

POINT

stability.ai

대규모로 쉽게 배포할 수 있는 고품질 AI 이미지 생성

STABLE DIFFUSION

STABLE IMAGE

NEW

COMING SOON

COMING SOON

aws

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Amazon Nova

NEW

업계 최고 수준 지능과 가격 대비 성능을 제공하는 파운데이션 선택 옵션 제공

Amazon Nova Micro

매우 낮은 비용으로 낮은 지연 시간 응답을 제공하는 텍스트 전용 모델

Amazon Nova Lite

이미지, 비디오, 텍스트 입력 처리에 매우 빠른 초저가 멀티 모달 모델

Amazon Nova Pro

다양한 작업을 위한 정확성, 속도, 비용의 최상의 조합을 갖춘 고성능 멀티 모달 모델

Amazon Nova Premier

복잡한 추론 작업 및 맞춤형 모델 도출을 위한 티처모델로 가장 적합한 멀티 모달 모델

COMING SOON

낮은 비용 및 레이턴시 ← → 높은 지능 제공

75% 비용 효율적 | Bedrock 지식 기반 (RAG) 및 에이전트에 최적화 | 파인튜닝 및 모델 증류 기능 제공

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Amazon Nova

NEW

업계 최고 수준 성능을 제공하고, 업계 최고의 가격 대비 성능을 자랑하는 최신 기반 모델 (Foundation Model)

Amazon Nova Canvas

광고, 마케팅, 이커머스 등을 위한 스튜디오급 이미지 제작 및 편집 가능한 모델

Prompt: A confident male model striding down a sleek runway, showcasing an avant-garde designer suit with bold geometric patterns.

Amazon Nova Reel

이미지 입력이나 자연어 프롬프트를 통한 간단한 비디오 제작 가능

Prompt: Cinematic dolly shot of a juicy cheeseburger with melting cheese, fries, and a condensation-covered cola on a worn diner table. Natural lighting, visible steam and droplets. 4k, photorealistic, shallow depth of field.

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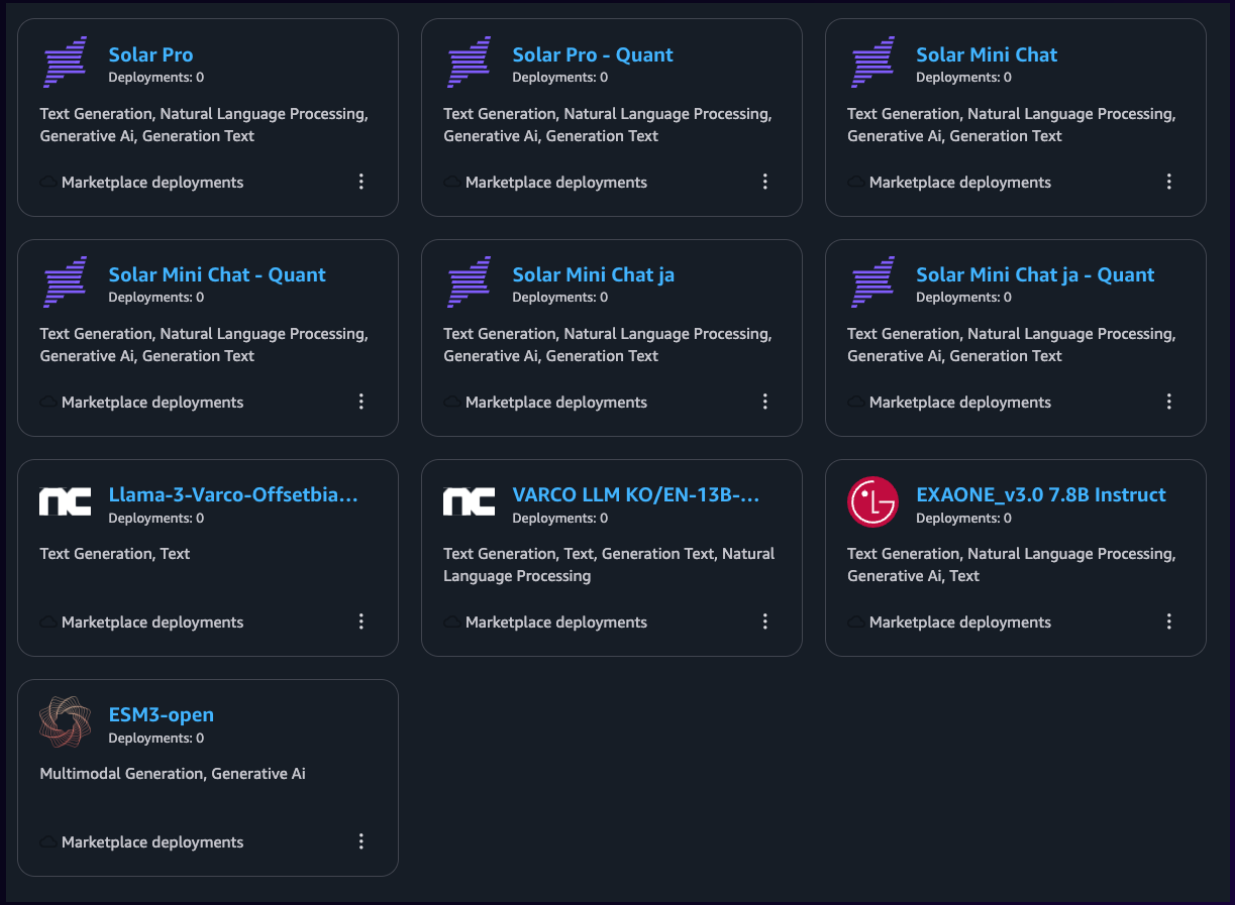
Amazon Bedrock Marketplace

NEW

100개 이상의 LLM 모델 제공사의 다양한 모델을 고객에게 바로 전달 가능



- 통합된 콘솔 환경으로 개발 워크플로우 간소화
- 맞춤형 확장 정책을 통해 관리형 엔드포인트에 모델 배포
- Amazon Bedrock의 API, 도구 및 보안 기능 활용

다양한 모델을 쉽게 구독 후 배포 가능

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생성형 AI 서비스 개발을 위해 “새로 출현하는 기술 세트”

PROMPT + CONTEXT + MODEL = OUTPUT

프롬프트 엔지니어링

Zero-shot Learning
One-shot Learning
Few-shot Learning
Chain of Thought (CoT)

검색 증강 생성 (RAG)

텍스트 임베딩
벡터 검색
시맨틱 검색
지식 그래프

벡터 데이터베이스

파운데이션 모델 (FM)

Amazon **Nova**
Anthropic **Claude**
Meta **Llama**
Stable **Diffusion XL**

앱 구현 및 배포

지식 기반 챗봇
SW 코딩 도우미
콘텐츠 생성 도구
가상 인간
고객 센터

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Amazon Bedrock: 생성형 AI 서비스 개발을 위한 깊이 있는 기능

PROMPT + CONTEXT + MODEL = OUTPUT

프롬프트 엔지니어링

Prompt Management & Flows

Prompt Routing

Prompt caching

검색 증강 생성 (RAG)

Knowledge Bases

KB GraphRAG

Data Automation

파운데이션 모델 (FM)

Model Evaluation

Fine-tuning

Continued pretraining

Model Distillation

앱 구현 및 배포

Bedrock Agents

Multi-agent capability

Bedrock Inference

On-demand | Provisioned throughput| Batch

벡터 데이터베이스

Amazon OpenSearch Serverless |Amazon Aurora PostgreSQL
Pinecone | Redis Enterprise Cloud | MongoDB Atlas

책임감 있는 AI

Bedrock Guardrails

Automated Reasoning

Multi-modal toxicity detection

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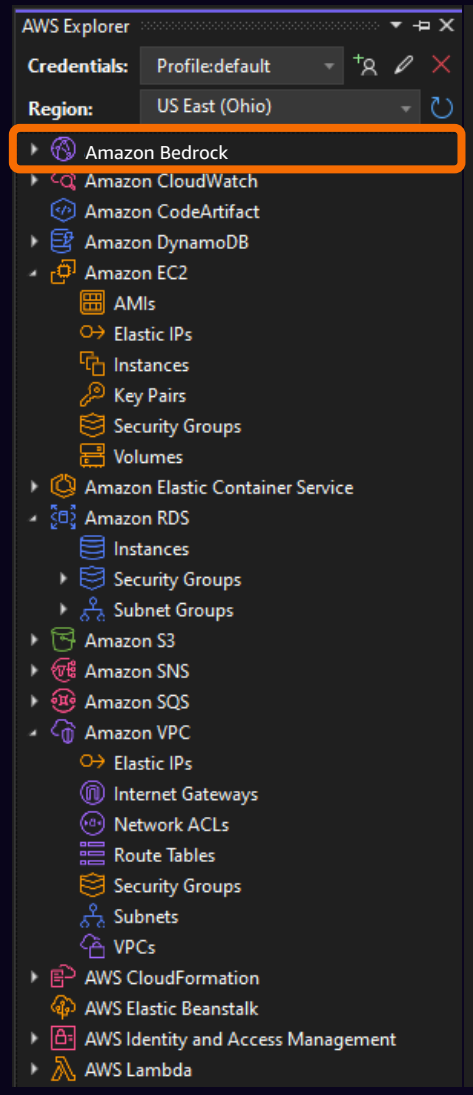
AWS SDK for .NET with Amazon Bedrock Runtime




```
// Use the Converse API to send a text message to Anthropic Claude.
using System;
using System.Collections.Generic;
using Amazon;
using Amazon.BedrockRuntime;
using Amazon.BedrockRuntime.Model;

// Create a Bedrock Runtime client in the AWS Region you want to use.
var client = new AmazonBedrockRuntimeClient(RegionEndpoint.USEast1);
var request = new ConverseRequest
{
    ModelId = "anthropic.claude-3-haiku-20240307-v1:0";,
    Messages = new List<Message>
    {
        new Message
        {
            Role = ConversationRole.User,
            Content = new List<ContentBlock> { new ContentBlock { Text = userMessage } }
        }
    },
    InferenceConfig = new InferenceConfiguration()
    {
        MaxTokens = 512,
        Temperature = 0.5F,
        TopP = 0.9F
    }
};

try
{
    // Send the request to the Bedrock Runtime and wait for the result.
    var response = await client.ConverseAsync(request);
    string responseText = response?.Output?.Message?.Content?[0]?.Text ?? "";
    Console.WriteLine(responseText);
}
catch (AmazonBedrockRuntimeException e)
{
    Console.WriteLine($"ERROR: Can't invoke '{modelId}'. Reason: {e.Message}");
    throw;
}
```

Client

Configuration

Request object

Process Result

AWS SDK for .NET

https://docs.aws.amazon.com/sdk-for-net/v3/developer-guide/csharp_bedrock-runtime_code_examples.html

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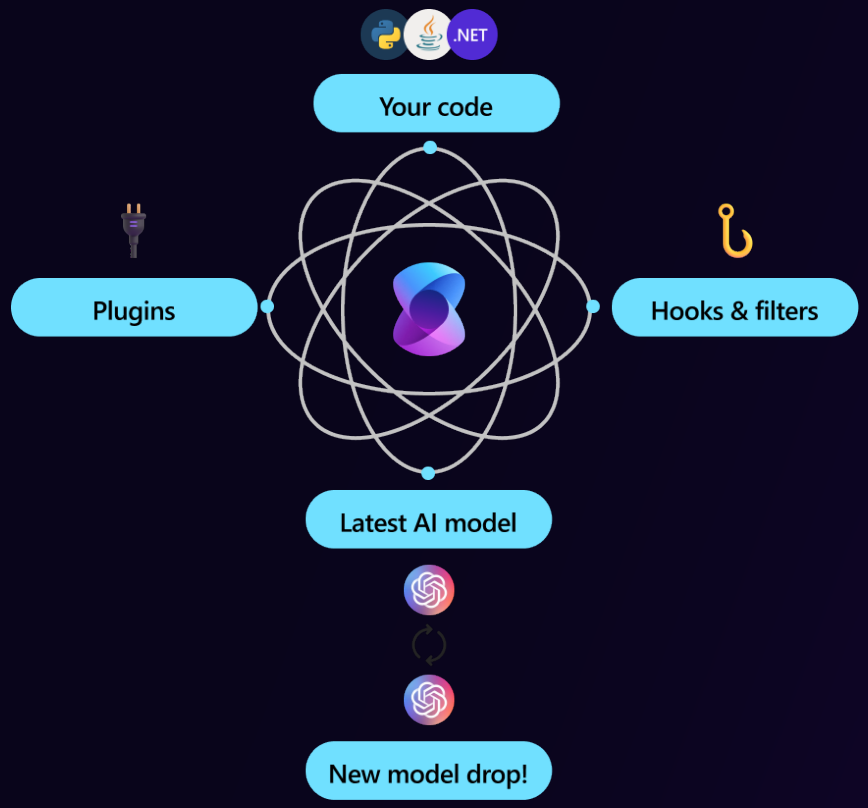
Semantic Kernel with Amazon Bedrock




```
// Use the Converse API to send a text message to Anthropic Claude.
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using Microsoft.SemanticKernel;
using Microsoft.SemanticKernel.ChatCompletion;
using Microsoft.SemanticKernel.TextGeneration;

var kernel = Kernel.CreateBuilder()
    .AddBedrockChatCompletionService("anthropic.claude-3-haiku-20240307-v1:0")
    .Build()

do
{
    Console.Write("Enter a prompt (or leave empty to quit): ");
    userInput = Console.ReadLine() ?? string.Empty;

    if (!string.IsNullOrEmpty(userInput))
    {
        chatHistory.AddMessage(AuthorRole.User, userInput);
        var result = await chatCompletionService
                                .GetChatMessageContentsAsync(chatHistory)
                                .ConfigureAwait(false);
        string output = "";
        foreach (var message in result)
        {
            output += message.Content;
            Console.WriteLine($"Chat Completion Answer: {message.Content}");
            Console.WriteLine();
        }
        chatHistory.AddMessage(AuthorRole.Assistant, output);
    }
} while (!string.IsNullOrEmpty(userInput));
```

Kernel

ChatHistory

https://github.com/microsoft/semantic-kernel/tree/main/dotnet/samples/Demos/AmazonBedrockModels

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생성형 AI 비지니스 가치 실현을

3 SW 개발 생산성 향상

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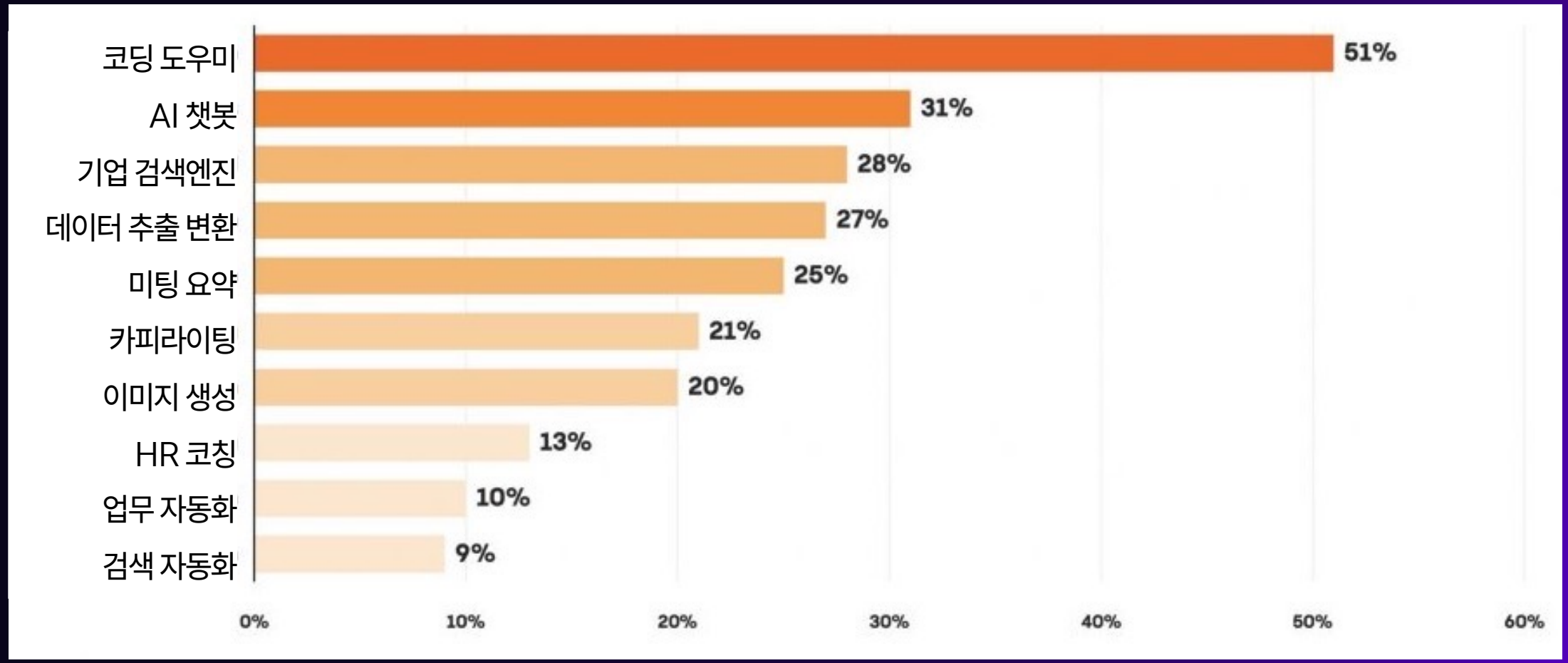
생성형 AI의 킬러 앱은 SW 개발 생산성이다!

미국 IT 의사결정권자 600명 (50명 이상 고용회사) 대상으로 한 설문 조사



https://menlovc.com/2024-the-state-of-generative-ai-in-the-enterprise/ © Menlo Ventures, 2024

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기업 생산성을 위한 생성형 AI 서비스

Amazon Q Business

Amazon Q Developer

사용 대상	
일반 직원, 비지니스 분석가	개발자, 데이터 과학자

활용 이점

- 사내 보안 및 개인 정보 보호를 고려한 설계
- 비즈니스 목적에 맞게 맞춤화 가능

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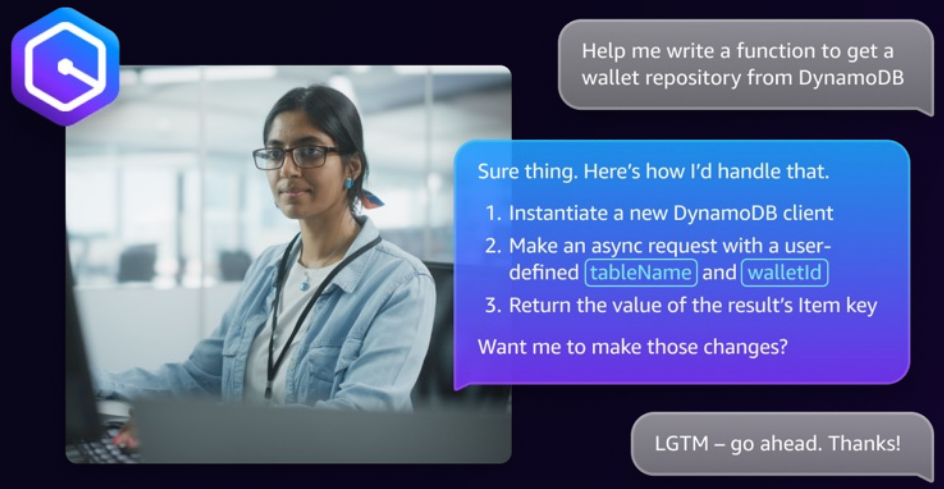
Amazon Q Developer



AWS 콘솔

통합 개발 도구 (IDE)

AWS 문서 사이트

AWS 콘솔 모바일앱

Slack 및 MS Teams (AWS Chatbot 활용)

Amazon CodeCatalyst

- **17년**의 AWS 지식을 바탕으로 훈련된 데이터
- 콘솔, IDE, 문서 등 AWS를 사용하는 **모든 곳**에서 활용
- 신규 소스 코드 생성 뿐만 아니라 **레거시 코드 변환**
- **인프라 코드** 를 위한 커맨드 라인 (CLI) 및 테라폼 템플릿 생성
- 사내 데이터에 대한 안전하고 **책임감 있는 AI 가드레일** 제공

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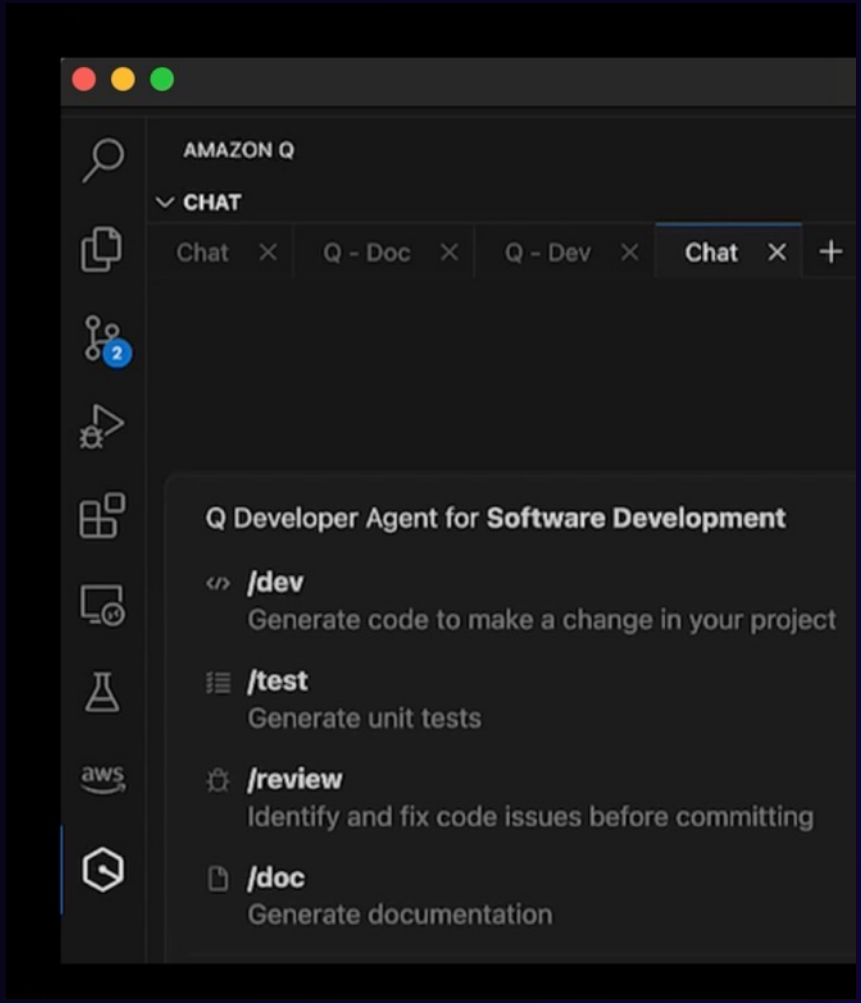
Amazon Q Developer 신규 기능

NEW

기획 → 설계 → 코드 구현 → 테스트 → 배포 → 개선



- 프로젝트 제안 개발 – /dev
- 유닛 테스트 – /test
- 문서화 – /doc
- 코드리뷰 – /review

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my_project

AMAZON Q

CODE ISSUES

CHAT

Q - Dev

S3에 이미지 업로드 하는 AWS lambda 함수를 닷넷프로젝트로 만들어줘

Okay, I'll generate code for that.

This might take a few minutes. You can navigate away from this chat, but please keep this tab open. I'll notify you when I'm done.

Generating code...

I'll share updates here as I work on this.

Summary of changes

1. First let's create necessary files for a .NET AWS Lambda function that handles image uploads to S3. I'll create a new Lambda function project with required AWS SDK NuGet packages.

2. I have created a complete .NET AWS Lambda function project that handles image uploads to S3, including the main function code, project file with required dependencies, configuration file, and documentation. Since all necessary files are created and properly configured, we can mark this task as complete.

Files used

These fields can change throughout code generation

- Reviewed: 0
- Created: 4
  - ImageUploaderFunction.cs
  - ImageUploader.csproj
  - aws-lambda-tools-defaults.json
  - README.md
- Changed: 0
- Deleted: 0

Code suggestions 4 file(s)

Changes 4 file(s)

- ImageUploaderFunction.cs
- ImageUploader.csproj
- aws-lambda-tools-defaults.json
- README.md

Accept all changes

Provide feedback & regenerate

empty ↔ ImageUploaderFunction.cs

```
1+ using Amazon.Lambda.Core;
2+ using Amazon.Lambda.APIGatewayEvents;
3+ using Amazon.S3;
4+ using Amazon.S3.Model;
5+ using System;
6+ using System.IO;
7+ using System.Threading.Tasks;
8+
9+ [assembly: LambdaSerializer(typeof(Amazon.Lambda.Serial
10+
11+ namespace ImageUploader
12+ {
13+     public class Function
14+     {
15+         private readonly IAmazonS3 _s3Client;
16+
17+         public Function()
18+         {
19+             _s3Client = new AmazonS3Client();
20+         }
21+
22+         public async Task<APIGatewayProxyResponse> Func
23+         {
24+             try
25+             {
26+                 // Check if the request contains a file
27+                 if (string.IsNullOrEmpty(request.Body))
28+                 {
29+                     return new APIGatewayProxyResponse
30+                     {
31+                         StatusCode = 400,
32+                         Body = "No file data provided"
33+                     };
34+                 }
35+
36+                 // Convert base64 string to bytes
37+                 byte[] imageBytes = Convert.FromBase64S
```

my_project

AMAZON Q

CODE ISSUES

CHAT

Q - Doc

Welcome to doc generation!

I can help generate documentation for your code. To get started, choose what type of doc update you'd like to make.

Create a README

Create a README for this project?

my_project

Yes | Change folder | Cancel

Choose an option to continue

Amazon Q Developer uses generative AI. You may need to verify responses. See the AWS Responsible AI Policy.

Yes

Okay, I'm creating a README for your project. This may take a few minutes.

- ☑ Scanning source files
- ☑ Summarizing source files
- ☑ Generating documentation

Documents ready 1 file(s)

Documentation 1 file(s)

README.md

I've created a README for your code. You can accept the changes to your files, or describe any additional changes you'd like me to make.

Accept | Make changes | Reject

Choose an option to continue

Amazon Q Developer uses generative AI. You may need to verify responses. See the AWS Responsible AI Policy.

empty ↔ README.md

```
1  -
1+ # Django Note-Taking Application with AWS Lamb
2+
3+ This project is a Django-based note-taking app
   + S3.
4+
5+ The application allows users to create, read,
   + It features a Django web interface for managin
   + uploads to an S3 bucket.
6+
7+ The note-taking functionality includes a list
   + forms for creating and editing notes. The appl
   + ensure efficient storage and transfer.
8+
9+ On the AWS side, the Lambda function processes
   + encoded image data. It generates unique filena
   + specified S3 bucket.
10+
11+ ## Repository Structure
12+
13+ - `lambda_function.py`: AWS Lambda function fo
14+ - `urls.py`: Main URL configuration for the Dj
15+ - `my_app/`: Main application directory
16+   - `forms.py`: Form definitions for the note-
17+   - `models.py`: Data models for the Note enti
18+   - `views.py`: View functions for CRUD operat
19+   - `urls.py`: URL patterns for the note-takin
20+   - `templates/my_app/`: HTML templates for re
21+     - `note_confirm_delete.html`: Template for
22+     - `note_detail.html`: Template for display
23+     - `note_form.html`: Template for note crea
24+     - `note_list.html`: Template for displayin
25+
26+ ## Usage Instructions
27+
28+ ### Installation
29+
```

PROBLEMS | OUTPUT | DEBUG CONSOLE | TERMINAL | PORTS

⊗ 0 ⚠ 2 | 0 | Amazon Q | -- NORMAL --

my_project

AMAZON Q

CODE ISSUES

CHAT

Chat | Q - Review

/review
Included in your Q Developer subscription

I can review your workspace for vulnerabilities and issues.

After you begin a review, I will:

1. Review all relevant code in your workspace or your current file
2. Provide a list of issues for your review

You can then investigate, fix, or ignore issues.

To learn more, check out our user guide.

Which type of review would you like to run?

Project Review | File Review

Project Review

Waiting on your inputs...

Amazon Q Developer uses generative AI. You may need to verify responses. See the AWS Responsible AI Policy.

CODE ISSUES

- Critical 1 issues
- High 1 issues
- Medium 3 issues
- Low 0 issues
- Info 0 issues

CHAT

Chat | Q - Review

Sure. Reviewing your project for code issues.

This may take a few minutes. I'll share updates here as I work on this.

- ☑ Initiating code review
- ☑ Waiting for review to finish
- ☑ Processing review results

Reviewing your project is complete. Here's what I found:

- Critical: `1 issue`
- High: `1 issues`

Ask a question or enter "/" for quick actions

Amazon Q Developer uses generative AI. You may need to verify responses. See the AWS Responsible AI Policy.

Code Issue Details

CWE-94 - Unsanitized input is run as code Critical

Passing user-provided input to `eval` and `exec` functions without sanitization makes your code vulnerable to code injection. Make sure you implement input validation or use secure functio
Learn more

Common Weakness Enumeration (CWE)
CWE-94

Detector library
Unsanitized input is ru
code

File path
main.py [Ln 3]

Suggested code fix preview

```
1  def main():
2  sum = 0
3  numbers = ast.literal_eval(input("E
4  #import ast
```

Open

Accept Fix | Regenerate Fix | Explain | Ignore | Ignore All

AMAZON Q

CODE ISSUES

CHAT

Chat | Q - Test

/test
Included in your Q Developer Agent subscription

I can generate unit tests for your active file.

After you select the functions or methods I should focus on, I will:

1. Generate unit tests
2. Place them into relevant test file

To learn more, check out our user guide.

Sure. This may take a few minutes. I'll share updates here as I work on this.

Generating unit tests for the following methods in `lambda_function.py`

`lambda_handler`

Select View diff to see the generated unit tests.

CODE ISSUES

CHAT

Chat | Q - Test

Please see the unit tests generated below. Click "View diff" to review the changes in the code editor.

READY FOR REVIEW 1 file(s)

my_project 1 file(s)

test 1 file(s)

test_lambda_function.py

View diff

Select View diff to see the generated unit tests.

test_lambda_function.py (Generated by Amazon Q) 2

tmp > aws-toolkit-vscode > q-testgen > resultArtifacts > test > test_lambda_fu

```
1+ from my_project.lambda_function import lambda_handler
2+ from unittest.mock import MagicMock, patch
3+ from unittest.mock import patch, MagicMock
4+ import base64
5+ import json
6+ import os
7+ import pytest
8+
9+ class TestLambdaFunction:
10+
11+     @pytest.fixture
12+     def mock_context(self):
13+         context = MagicMock()
14+         context.aws_request_id = 'test_request_id'
15+         return context
16+
17+     @pytest.fixture
18+     def mock_s3(self):
19+         with patch('my_project.lambda_function.boto3.cli
20+             yield mock_client.return_value
21+
22+     def test_lambda_handler_2(self):
23+         """
24+         Test lambda_handler with non-base64 encoded imag
25+         """
26+         # Mock the AWS Lambda context
27+         mock_context = MagicMock()
28+         mock_context.aws_request_id = "test-request-id"
29+
30+         # Mock the S3 client
31+         mock_s3 = MagicMock()
32+
33+         # Mock environment variable
34+         mock_env = {"S3_BUCKET_NAME": "XXXXXXXXXXX"}
35+
36+         # Prepare test event data
37+         event = {
```

PROBLEMS 3 | OUTPUT | DEBUG CONSOLE | TERMINAL | PORTS

Other diff options

Amazon Q Developer Customization

사내 코드 및 문서를 검색 증강
생성(RAG) 방식으로 벡터 데이터 저장

IDE에서 채팅을 사용하여
내부 코드에 대해 질문

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Amazon Q Developer Customization 도입 후…

"

새로운 엔지니어를 온보딩하거나 회사 내부의 다른 코드베이스에 익숙해지는 데 도움이 됩니다.

nab
National Australia Bank

50%
코드 채택 비율

40%+
생산성 향상

Q Developer 사용자 수가 한 달 사이에
450명에서 **1000**명으로 증가

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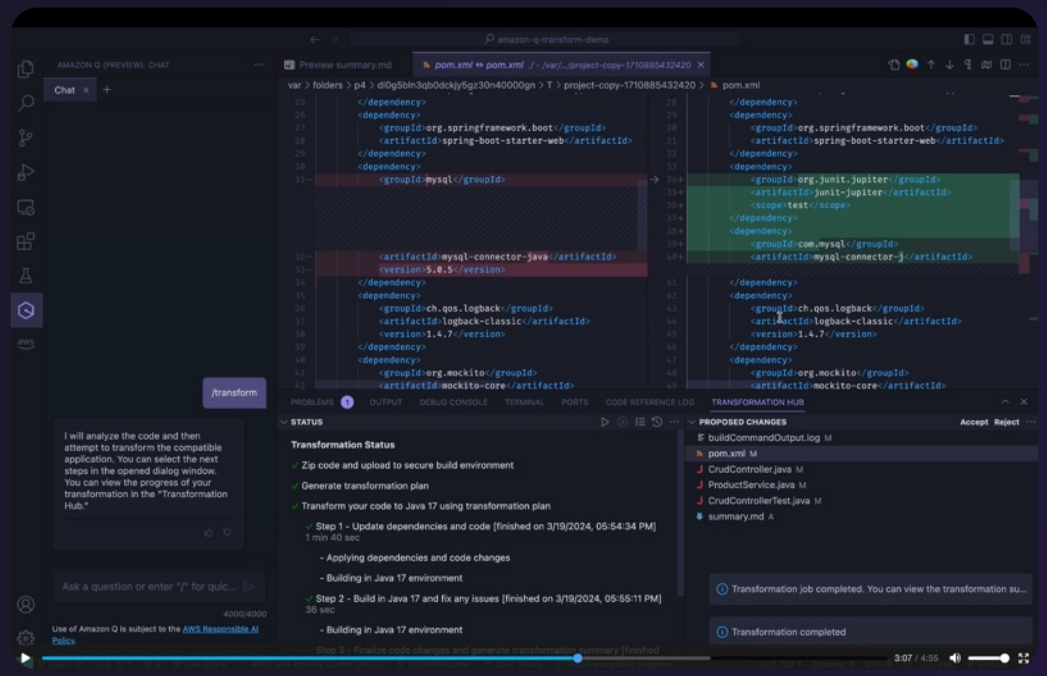
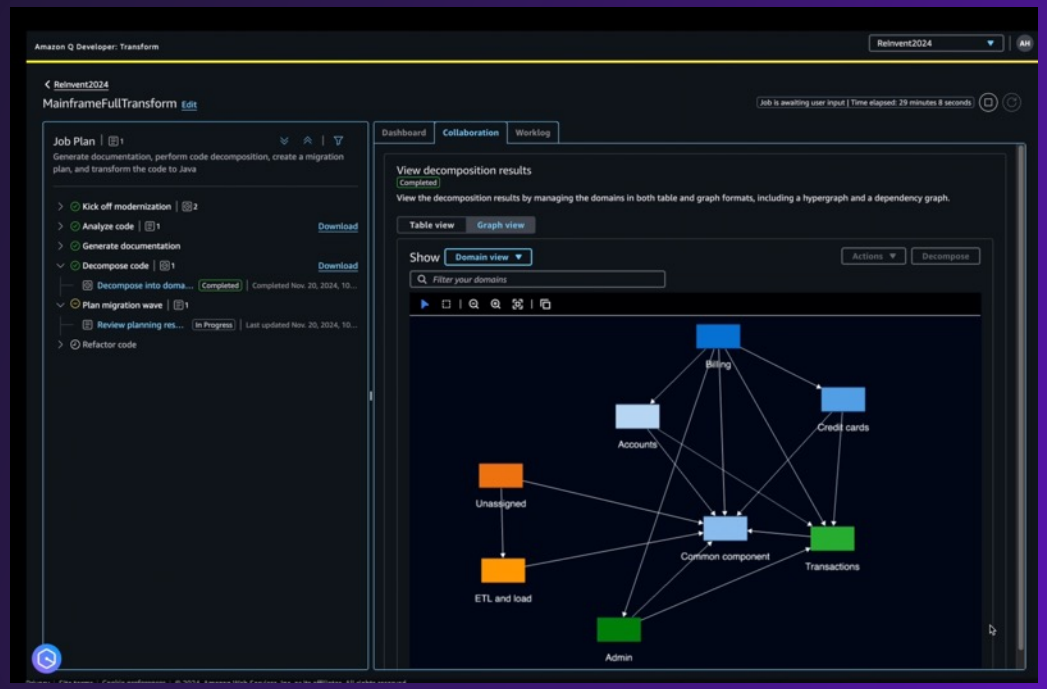
Amazon Q Developer Code Transformation



IDE 기반 Java 8/11 코드 17으로 자동 변환 기능 제공
닷넷 프레임워크 지원 (리눅스 마이그레이션 포함)



웹 기반 메인프레임 및 VMware 워크로드의
대규모 앱 현대화 기능 제공

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Agent for Code Transformation 도입 후…

5명으로 구성된 팀에서 레거시 앱당
평균 10분, 가장 오래 걸린 앱도 1시간
미만으로 변환하였습니다

amazon

1,000
Java 애플리케이션

2 days
전환 기간

3만개의 레거시 애플리케이션 코드 변환 (2024)

Java 8/11 에서 **17** 로 업그레이드

연간 **2억 6천만** 달러 (3500억원) 절감

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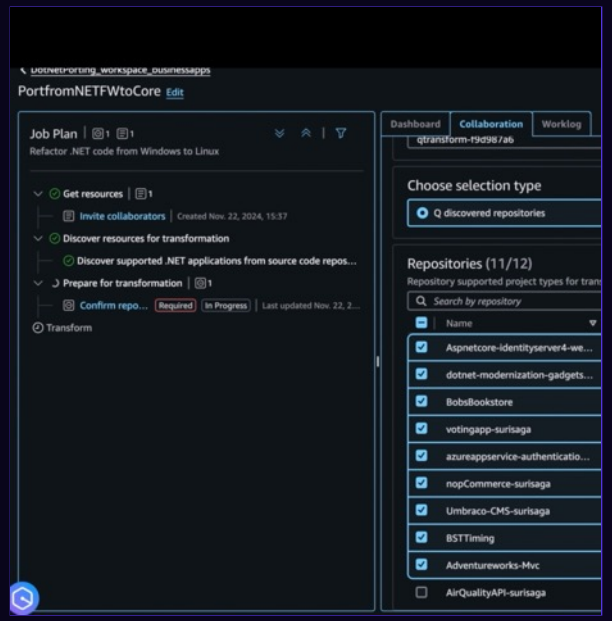
Code Transformation for .NET

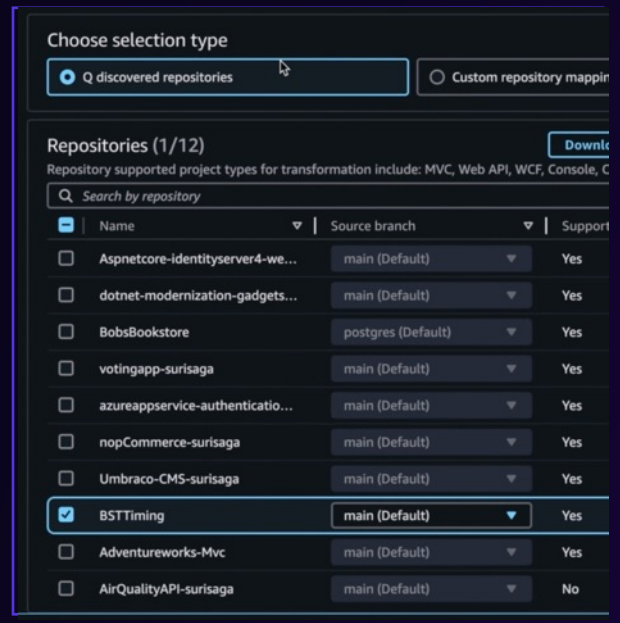
NEW

윈도에서 리눅스로 닷넷 프로젝트 전환 시, 최대 4배 이상 빠르고 40% 라이센스 비용 절감

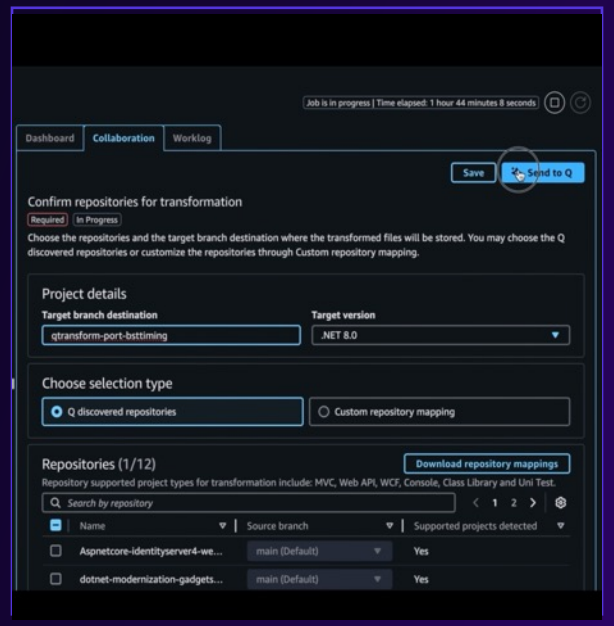
① 소스 레포지터리 연결



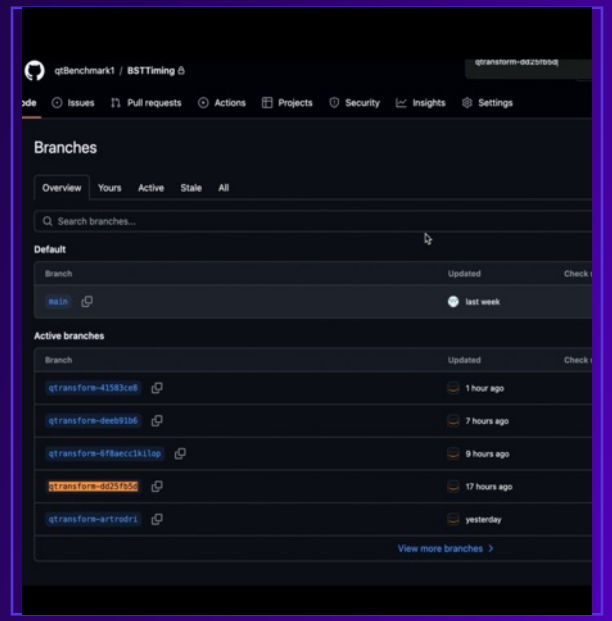
② 변환할 프로젝트 선정



③ 자동 변환



④ 리뷰 및 커밋



Source versions:

- .NET Framework versions 3.5+
- .NET Core 3.1
- .NET 5, .NET 7

Target versions:

- .NET 8

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Amazon Q Developer 기능별 언어 지원 현황

Inline suggestions	Code Review	Unit test	Documentation	Transformation
C/C++ **C#/PowerShell** Dart Go Java/Kotlin/Scala JavaScript Lua PHP Python TypeScript R Rust SQL Swift YAML/Terraform/CDK	C (>C11)//C++ (>C17) **C# (.NET 6.0+)** Go (1.18) Java (>Java 17) / Kotlin (>2.0.0) / Scala (>3.2.2) JavaScript (>ECMA2021) PHP (>8.2) Python (>3.11) TypeScript Ruby (2.7, 3.2) JSX (>React 17) YAML/Terraform/CDK	Python (Pytest, Unnittest) Java (JUnit, Mockito)	Java Python JavaScript TypeScript	JetBrains IDEs and Visual Studio Code – Java and SQL **Visual Studio – C# in .NET applications**

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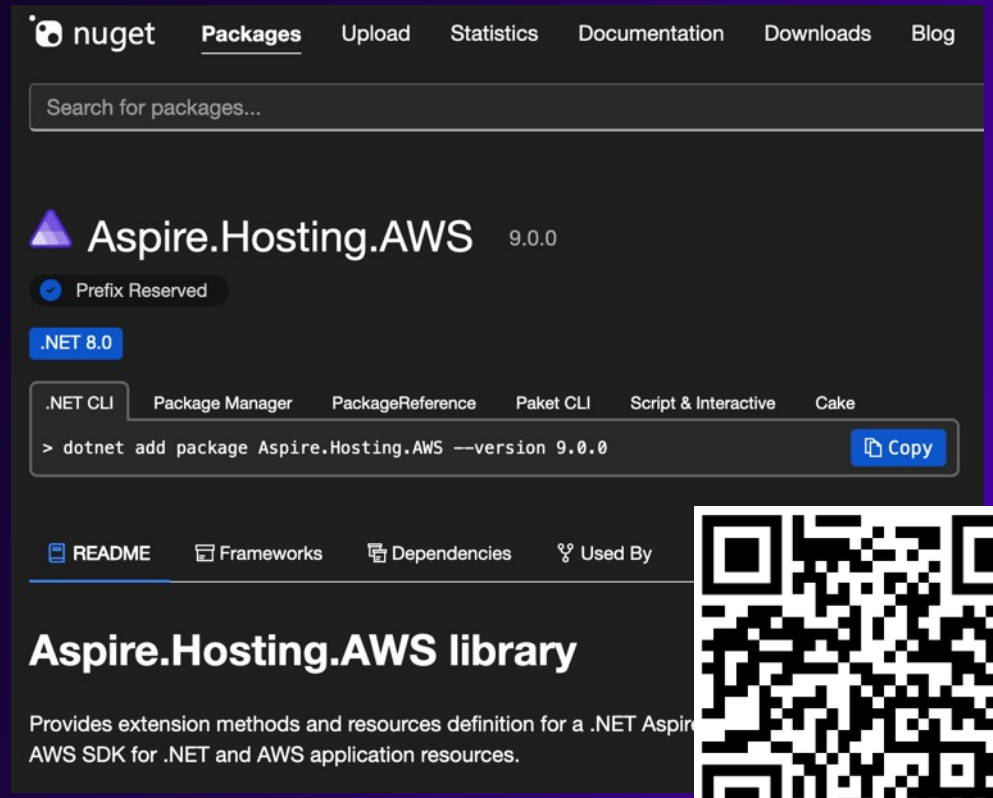
.NET Aspire for AWS

NEW

https://www.youtube.com/watch?v=yVgr6cRYOPk



https://www.nuget.org/packages/Aspire.Hosting.AWS

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.NET Aspire for AWS

NEW

AWS SDK for .NET

```
var awsConfig = builder.AddAWSSDKConfig()
                       .WithProfile("dev")
                       .WithRegion(RegionEndpoint.USWest2);

builder.AddProject<Projects.Frontend>("Frontend")
       .WithReference(awsConfig)
```

AWS Cloudformation

```
var awsResources = builder.AddAWSCloudFormationTemplate("AspireSampleDevResources", "app-resources.template")
                          .WithParameter("DefaultVisibilityTimeout", "30")
                          .WithReference(awsConfig);

builder.AddProject<Projects.Frontend>("Frontend")
       .WithEnvironment("ChatTopicArnEnv", awsResources.GetOutput("ChatTopicArn"))
```

AWS CDK for .NET

```
var stack = builder.AddAWSCDKStack("Stack");
var constuct = stack.AddConstruct("Construct", scope => new CustomConstruct(scope, "Construct"));

builder.AddProject<Projects.Frontend>("Frontend")
       .WithReference(construct, c => c.Url, "Url");
```

https://github.com/aws/integrations-on-dotnet-aspire-for-aws/

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.NET for AWS 실습 정보

aws workshop studio

.NET Immersion Day

- Prerequisites
- Using the AWS Toolkits
- Deploy .NET Apps on AWS
- Developing .NET Applications Using DynamoDB
- Adding innovation with AI/ML
- Storing Credentials and Parameters Outside of Source Code
- Using AWS X-Ray in .NET Applications
- Storing and Caching Data in S3, DynamoDB & DynamoDB Accelerator
- Integrate Amazon Cognito with an ASP.NET Core Web Application
- Infrastructure Automation

.NET Immersion Day

.NET Immersion Day

Welcome to the .NET on AWS Immersion Day. T
and exercises is to introduce you to tools and se
develop, build and deploy .NET applications on

Some of the services and techniques that you c
using on AWS in your .NET applicaions include:

- Using the AWS Toolkits
- AI/ML services
- Secret and configurati
- Securing ASP.NET Web
- Infrastructure as Code
- Purpose built databas
  ElastiCache for Redis

https://catalog.us-east-1.prod.workshops.aws/workshops/02696107-09ac-4313-a6cb-3798048b07d7/en-US

aws workshop studio

.NET Developer Dojo

Prerequisites

- Lab 1: Serverless compute with AWS Lambda
- Lab 2: Amazon API Gateway
- Lab 3: Securely store your secrets
- Lab 4: Authentication with Amazon Cognito
- Lab 5: Infrastructure Automation with CDK .NET
- Lab 6: Adding innovation with AWS AI Services
- Lab 7: .NET 8 on AWS Graviton

Cleanup

.NET Developer Dojo

.NET Developer Dojo

This workshop is for .NET developers who have little to no exp
basics of the platform by building series of .NET 8 applications

You will learn:

- Familiarize with AWS Toolkit for Visual Studio 2022
- Familiarize with AWS SDK for .NET
- Develop cloud native applications with .NET on AWS
- Add AI capabilities to .NET applications
- Define cloud infrastructure using .NET

You are going to use the following AWS

- Amazon S3
- AWS Lambda
- Amazon API Gateway
- AWS Systems Manager Parameter Sto
- Amazon Cognito
- Amazon CloudWatch

https://catalog.us-east-1.prod.workshops.aws/workshops/c36ccd6e-9145-4e97-b1b5-1069d6d68ed0/en-US

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더 자세한 것은…

Amazon Q Developer로 .NET 앱 현대화하기

김순근 (AWS)

트랙 1 10:40 ~ 11:20

About .NET on AWS: 클라우드 네이티브 개발을 위한 AWS 도구

류동철 (AWS)

트랙 1 15:10 ~ 15:50

후원사 부스에서 AWS를 알아보세요!

AWS 전문가 상담
AWS 공인 인증 자격증 안내

라운지 10:40 ~ 17:20

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Thank you!

Please complete the session survey in the mobile app

윤석찬

channyun@amazon.com

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