

AWS RE:INVENT

re:Cap

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Join a re:Invent re:Cap community event!

Join one of the free-to-attend
Community re:Cap events organized by
volunteers from AWS User Groups
around the world.

Dive into technical discussions, gain
insights from community experts, and
network with your peers!

[Check upcoming events!](#)

Upcoming Community re:Cap events

Date	Country	City	Link to Event
Dec 16	Germany	Darmstadt	AWS User Group Bergstraße & AWS User Group Frankfurt
Dec 16	Germany	Munich	AWS User Group Munich
Dec 16	Canada	Vancouver	AWS User Group Vancouver
Dec 17	Canada	Montreal	AWS User Group Montréal
Dec 17	Italy	Milan	AWS User Group Milan
Dec 17	Japan	Tokyo & Virtual	JAWS-UG IoT
Dec 18	Germany	Berlin	AWS UG Berlin & AWS Women's UG Berlin
Dec 19	Korea	Seoul	AWS User Group Korea (KRUG)
Dec 19	Taiwan	Taipei	AWS User Group Taiwan
Dec 27	Bangladesh	Virtual	AWS User Group Bangladesh

Do more with AWS Builder ID

- Connect with fellow builders
- Get advice on technical challenges
- Access 600+ free courses
- Try Amazon Q Developer
- Be first to explore new AWS offerings

Start by claiming your
community alias



What is AWS re:Invent?

AWS re:Invent is a learning conference hosted by AWS for the global cloud computing community.

The in-person event features keynote announcements, training and certification opportunities, access to more than 2,000 technical sessions, the Expo, after-hours events, and so much more.



AWS re:Invent 2024

60,000

attendees

400,000

people watching
keynotes online

1,900

sessions

3,500

speakers

546

updates and announcements
(before and during re:Invent)



Housekeeping and Deck Legend

Generally Available (GA)



Public Preview (PP)



Preview (P)



Coming Soon (CS)



Each announcement contains a date when it happened, announcement status, information is it a pre-re:Invent or re:Invent release, is it Open Source related, and regional availability.

Color coding: **pre-re:Invent**, **re:Invent**, **Service Name**, **Open Source**

AWS re:Invent 2024

Dec 1st – Dec 6th

What is pre-re:Invent?

It's an *unofficial* name of the period before the event itself, during which we observe an increased number of announcements coming from AWS Service teams.

For AWS re:Invent 2024 re:Cap,
we decided to take the date of **October 30th**
as a starting date for this period.

AWS re:Invent 2024 Keynotes



**Peter
DeSantis**

SVP, UTILITY COMPUTING
AWS

[Link to video](#)



**Matt
Garman**

CEO
AWS

[Link to video](#)



**Dr. Swami
Sivasubramanian**

VP, AI AND DATA
AWS

[Link to video](#)

AWS re:Invent 2024 Keynotes



**Dr. Ruba
Borno**

VP, GLOBAL SPECIALISTS
AND PARTNERS
AWS

[Link to video](#)



**Dr. Werner
Vogels**

VP AND CTO
AMAZON

[Link to video](#)

AWS re:Invent 2024: Launch Summary



AWS re:Invent 2024 Launch Summary (1/5)

Analytics

[Announcing scenarios analysis capability of Amazon Q in QuickSight \(preview\)](#)

[Announcing Amazon S3 Metadata \(Preview\) – Easiest and fastest way to manage your metadata](#)

[Amazon DynamoDB zero-ETL integration with Amazon SageMaker Lakehouse](#)

[AWS expands data connectivity for Amazon SageMaker Lakehouse and AWS Glue](#)

[Amazon S3 Access Grants now integrate with AWS Glue](#)

[Amazon SageMaker Lakehouse integrated access controls now available in Amazon Athena federated queries](#)

[Introducing AWS Glue 5.0](#)

[Introducing the next generation of Amazon SageMaker](#)

[AWS announces Amazon SageMaker Lakehouse](#)

[Amazon SageMaker Lakehouse and Amazon Redshift support for zero-ETL integrations from eight applications](#)

[AWS Glue Data catalog now automates generating statistics for new tables](#)

Analytics

[Introducing Amazon SageMaker Data and AI Governance](#)

[Announcing the preview of Amazon SageMaker Unified Studio](#)

[Data Lineage is now generally available in Amazon DataZone and next generation of Amazon SageMaker](#)

[Amazon Q in QuickSight unifies insights from structured and unstructured data](#)

[Amazon Q Business now provides insights from your databases and data warehouses \(preview\)](#)

[Amazon OpenSearch Service zero-ETL integration with Amazon Security Lake](#)

[AWS Clean Rooms now supports multiple clouds and data sources](#)

Application Integration

[Amazon SageMaker Lakehouse and Amazon Redshift support for zero-ETL integrations from eight applications](#)

[Amazon Bedrock now supports multi-agent collaboration](#)

[Amazon EventBridge and AWS Step Functions announce integration with private APIs](#)

Business Applications

[Amazon Q Business now provides insights from your databases and data warehouses \(preview\)](#)

[Amazon Connect Contact Lens now supports external voice](#)

[Amazon Connect now supports external voice transfers](#)

[Amazon Connect Contact Lens now automatically categorizes your contacts using generative AI](#)

[Amazon Connect launches AI guardrails for Amazon Q in Connect](#)

[Amazon Connect launches new intraday forecast dashboards](#)

[Amazon Connect launches AI assistant for customer segments and trigger-based campaigns](#)

[Amazon Connect now supports WhatsApp Business messaging](#)

[Amazon Connect Contact Lens now automates agent performance evaluations using generative AI](#)

[Amazon Connect launches generative AI-powered self-service with Amazon Q in Connect](#)

[AWS announces Salesforce Contact Center with Amazon Connect \(Preview\)](#)

AWS re:Invent 2024 Launch Summary (2/5)

Compute

- [Amazon EC2 Trn2 instances are generally available](#)
- [Announcing Amazon Elastic VMware Service \(Preview\)](#)
- [Deploy GROW with SAP on AWS from AWS Marketplace](#)
- [Amazon EC2 P5en instances, optimized for generative AI and HPC, are generally available](#)
- [Announcing Amazon EC2 I8g instances](#)
- [Amazon Web Services announces declarative policies](#)
- [Amazon CloudWatch Container Insights launches enhanced observability for Amazon ECS](#)
- [Introducing Amazon EC2 next generation high density Storage Optimized I7ie instances](#)
- [AWS Marketplace now offers EC2 Image Builder components from independent software vendors](#)
- [Amazon EC2 introduces Allowed AMIs to enhance AMI governance](#)
- [Announcing Amazon EKS Auto Mode](#)
- [Announcing Amazon EKS Hybrid Nodes](#)
- [AWS simplifies the use of third-party block storage arrays with AWS Outposts](#)

Containers

- [VPC Lattice now includes TCP support with VPC Resources](#)
- [Announcing Amazon EKS Auto Mode](#)
- [Announcing Amazon EKS Hybrid Nodes](#)

[Amazon Connect launches simplified conversational AI bot creation](#)

[Amazon Connect now supports WhatsApp Business messaging](#)

[Amazon Connect launches generative AI-powered self-service with Amazon Q in Connect](#)

[Amazon Connect now makes it easier to collect sensitive customer data within chats](#)

Customer Engagement

- [Introducing the AWS Digital Sovereignty Competency](#)
- [Amazon Connect now provides the ability to record audio during IVR and other automated interactions](#)
- [Amazon Connect Contact Lens now supports external voice](#)
- [Amazon Connect now supports external voice transfers](#)
- [Amazon Connect launches AI guardrails for Amazon Q in Connect](#)
- [Amazon Connect Contact Lens launches built-in dashboards to analyze conversational AI bot performance](#)

Databases

- [Announcing Amazon Aurora DSQL \(Preview\)](#)
- [Amazon DynamoDB global tables previews multi-Region strong consistency](#)
- [AWS DMS Schema Conversion now uses generative AI](#)
- [Announcing the general availability of Amazon MemoryDB Multi-Region](#)
- [Oracle Database@AWS is now in limited preview](#)
- [Amazon Bedrock Knowledge Bases now supports GraphRAG \(preview\)](#)
- [Amazon DynamoDB zero-ETL integration with Amazon SageMaker Lakehouse](#)

AWS re:Invent 2024 Launch Summary (3/5)

Databases *(continued)*

[Amazon Q Business now provides insights from your databases and data warehouses \(preview\)](#)

[Announcing Amazon EC2 I8g instances](#)

[AWS DMS Schema Conversion now uses generative AI](#)

Developer Tools

[Amazon Q Developer adds operational investigation capability \(Preview\)](#)

[Amazon Q Developer now provides transformation capabilities for .NET porting \(Preview\)](#)

[Amazon Q Developer can now automate code reviews](#)

[Announcing GitLab Duo with Amazon Q \(Preview\)](#)

[Amazon Q Developer can now generate documentation within your source code](#)

[Amazon Q Developer transformation capabilities for mainframe modernization are now available \(Preview\)](#)

Front End Web & Mobile

[Storage Browser for Amazon S3 is now generally available](#)

[Amazon Connect now supports WhatsApp Business messaging](#)

Machine Learning

[Amazon Bedrock Knowledge Bases now supports structured data retrieval](#)

[Task governance is now generally available for Amazon SageMaker HyperPod](#)

[AWS announces Amazon SageMaker Partner AI Apps](#)

[Amazon Bedrock Guardrails supports multimodal toxicity detection for image content \(Preview\)](#)

[Announcing new AWS AI Service Cards to advance responsible generative AI](#)

[Amazon SageMaker HyperPod now provides flexible training plans](#)

[Amazon Bedrock Marketplace brings over 100 models to Amazon Bedrock](#)

[Amazon Bedrock announces preview of prompt caching](#)

[Amazon Q Developer can now guide SageMaker Canvas users through ML development](#)

[Amazon Bedrock Data Automation now available in preview](#)

[Amazon Bedrock Knowledge Bases now supports GraphRAG \(preview\)](#)

[Announcing Amazon SageMaker HyperPod recipes](#)

[Amazon Bedrock Knowledge Bases now processes multimodal data](#)

[Announcing GenAI Index in Amazon Kendra](#)

[Amazon Q Developer adds operational investigation capability \(Preview\)](#)

[Amazon Q Developer can now automate code reviews](#)

[Amazon Bedrock Model Distillation is now available in preview](#)

[Amazon Q Business introduces over 50 actions for popular business applications and platforms](#)

[Amazon SageMaker Lakehouse and Amazon Redshift support for zero-ETL integrations from eight applications](#)

[Amazon Bedrock now supports multi-agent collaboration](#)

[Amazon Bedrock Guardrails now supports Automated Reasoning checks \(Preview\)](#)

AWS re:Invent 2024 Launch Summary (4/5)

Machine Learning *(continued)*

[Introducing Amazon SageMaker Data and AI Governance](#)

[Data Lineage is now generally available in Amazon DataZone and next generation of Amazon SageMaker](#)

[Amazon Q in QuickSight unifies insights from structured and unstructured data](#)

[Amazon Q Developer can now generate documentation within your source code](#)

[Announcing Amazon Bedrock IDE in preview as part of Amazon SageMaker Unified Studio](#)

[Announcing Amazon Nova foundation models available today in Amazon Bedrock](#)

[Amazon Q Business now provides insights from your databases and data warehouses \(preview\)](#)

[Amazon Q Developer transformation capabilities for mainframe modernization are now available \(Preview\)](#)

[Amazon EC2 P5en instances, optimized for generative AI and HPC, are generally available](#)

[Introducing latency-optimized inference for foundation models in Amazon Bedrock](#)

[Amazon Bedrock Knowledge Bases now supports RAG evaluation \(Preview\)](#)

[Amazon Bedrock Model Evaluation now includes LLM-as-a-judge \(Preview\)](#)

[Amazon Bedrock Knowledge Bases now provides auto-generated query filters for improved retrieval](#)

[Amazon Q Business adds support to extract insights from visual elements within documents](#)

[Amazon Bedrock Knowledge Bases now supports streaming responses](#)

[Amazon Bedrock now supports Rerank API to improve accuracy of RAG applications](#)

[Amazon Bedrock Knowledge Bases now supports custom connectors and ingestion of streaming data](#)

[PartyRock improves app discovery and announces upcoming free daily use](#)

[Announcing Amazon Q Developer transformation capabilities for VMware \(Preview\)](#)

[The Amazon Q index enhances software vendors' AI experiences](#)

Customer Engagement

[Amazon Web Services announces declarative policies](#)

[Amazon CloudWatch and Amazon OpenSearch Service launch an integrated analytics experience](#)

[Amazon CloudWatch adds network performance monitoring for AWS workloads using flow monitors](#)

[Amazon CloudWatch Container Insights launches enhanced observability for Amazon ECS](#)

[AWS Control Tower launches managed controls using declarative policies](#)

[AWS announces Amazon CloudWatch Database Insights](#)

Migration and Transfer

[Announcing AWS Transfer Family web apps](#)

[Announcing Amazon Q Developer transformation capabilities for VMware \(Preview\)](#)

Networking & Content Delivery

[AWS announces access to VPC resources over AWS PrivateLink](#)



AWS re:Invent 2024 Launch Summary (5/5)

Nova

(Generative AI)

[Announcing Amazon Nova foundation models available today in Amazon Bedrock](#)

Partner

[Buy with AWS accelerates solution discovery and procurement on AWS Partner websites](#)

[Respond and recovery more quickly with AWS Security Incident Response Partners](#)

[Start collaborating on multi-partner opportunities with Partner Connections \(Preview\)](#)

[Introducing the AWS Digital Sovereignty Competency](#)

[New streamlined deployment experience for Databricks on AWS](#)

[Introducing the AWS Consumer Goods Competency](#)

[AWS Marketplace now offers EC2 Image Builder components from independent software vendors](#)

Security, Identity & Compliance

[AWS announces AWS Security Incident Response for general availability](#)

[Amazon Bedrock Guardrails supports multimodal toxicity detection for image content \(Preview\)](#)

[Introducing the Amazon Security Lake Ready Specialization](#)

[Respond and recovery more quickly with AWS Security Incident Response Partners](#)

[Introducing the AWS Digital Sovereignty Competency](#)

[AWS Security Competency Update: New AI Security Category](#)

[Amazon Bedrock Guardrails now supports Automated Reasoning checks \(Preview\)](#)

[Amazon Web Services announces declarative policies](#)

[Amazon OpenSearch Service zero-ETL integration with Amazon Security Lake](#)

[AWS Verified Access now supports secure access to resources over non-HTTP\(S\) protocols \(Preview\)](#)

[Amazon GuardDuty introduces GuardDuty Extended Threat Detection](#)

[AWS announces AWS Security Incident Response for general availability](#)

Serverless

[Amazon OpenSearch Service zero-ETL integration with Amazon Security Lake](#)

Storage

[Amazon S3 Access Grants now integrate with AWS Glue](#)

[Announcing Amazon S3 Metadata \(Preview\) – Easiest and fastest way to manage your metadata](#)

[Announcing Amazon S3 Tables – Fully managed Apache Iceberg tables optimized for analytics workloads](#)

[Announcing Amazon EC2 I8g instances](#)

[Amazon S3 adds new default data integrity protections](#)

[Storage Browser for Amazon S3 is now generally available](#)

[Introducing Amazon EC2 next generation high density Storage Optimized I7ie instances](#)

[Announcing Amazon FSx Intelligent-Tiering, a new storage class for FSx](#)

[Announcing AWS Transfer Family web apps](#)

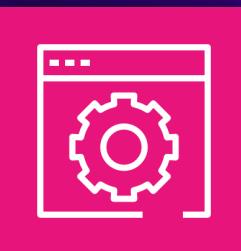
[Amazon S3 launches storage classes for AWS Dedicated Local Zones](#)



Ready?
Fasten your seatbelts and let's **re:Cap!**

Visual update for AWS Management Console

BASED ON CLOUDSCAPE DESIGN SYSTEM (CLOUDSCAPE.DESIGN)



PP

The screenshot displays four main pages of the AWS Management Console:

- Security Info:** Shows a security score of 75% (63/826), critical severity findings (11), and high severity findings (35). It includes links to Security Hub and AWS Health.
- Welcome to AWS:** Displays a security score of 75% (63/326) with 11 critical severity findings and 34 high severity findings. It features sections for Getting started with AWS, Training and certification, and What's new with AWS?.
- AWS Health Info:** Shows 0 open issues in the last 7 days and 2 scheduled changes in the upcoming 7 days. It includes a bar chart of health status and links to Go to my applications and View all services.
- Console Home:** Provides an overview of recently visited services (CloudFront, API Gateway, Lambda, etc.), applications (10 listed), cost and usage (current month costs \$9,097.09, forecasted month end costs \$12,135.27), and explores AWS features.

Nov, 21st

pre-re:Invent
All Regions



AWS News Blog Post



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Updates for PartyRock

NEW CAPABILITIES AND FREE DAILY USAGE

PartyRock

An Amazon Bedrock Playground

Everyone can
build AI apps
with
PartyRock

Your App. Your Rules.

Powered by Amazon Bedrock



Billing and Support

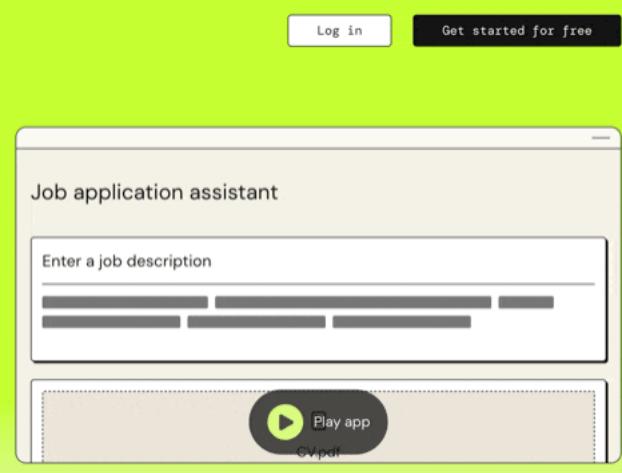
How much does PartyRock cost?

For a limited time, AWS offers new PartyRock users a free trial without the need to provide a credit card or sign up for an AWS account, so that you can begin learning fundamental skills without the worry of incurring costs. Starting 2025, a new and improved daily free usage model will replace the current free trial grant.

PartyRock

Get more
done with
generative AI

Start for free



GA

Dec, 1st

re:Invent

All Regions



[AWS News Blog Post](#)



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AWS Education Equity Initiative

EMPOWERING ORGANIZATIONS TO CREATE LEARNING SOLUTIONS FOR UNDERSERVED LEARNERS

Dec, 4th
re:Invent



GA



C O
D E



[AWS News Blog Post](#)

Partners

7 announcements (0 *pre-re:Invent*)



Buy with AWS

ACCELERATE SOLUTION DISCOVERY AND PROCUREMENT VIA AWS MARKETPLACE AND PARTNERS



GA

Dec, 4th

re:Invent

The screenshot shows the Wiz website's 'Partners' section. At the top, there are navigation links: Platform, Solutions, Pricing, Resources, Customers, Company, Sign in, and a 'Get a demo' button. Below the navigation is a 'Partners' heading and two circular icons: one with the AWS logo and another with a blue star. The main title is 'Connect Wiz with Amazon Web Services (AWS)'. A subtitle below it reads 'Agentless full stack coverage of your AWS workloads in minutes.' A large callout box in the center contains the text 'available in aws marketplace' above two buttons: 'Buy with AWS' and 'Try with AWS'. Two orange arrows point from the text 'available in aws marketplace' down towards these buttons. At the bottom of the callout box, there is a note: 'Purchase this listing from Wiz in AWS Marketplace using your AWS account. In AWS Marketplace, you can quickly launch pre-configured software with just a few clicks. AWS handles billing and payments, and charges appear on your AWS bill.'



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[AWS News Blog Post](#)

New capabilities available for AWS Partners

SOVEREIGNTY, CONSUMER GOODS, AI SECURITY, AMAZON SECURITY LAKE READY



- **New Competencies:**

- Consumer Goods
- Digital Sovereignty

GA

Dec, 1st

Dec, 4th

re:Invent

- **New Categories:**

- AI Security (*Security competency*)

- **New Specializations:**

- Amazon Security Lake Ready
- AWS Security Incident Response



AWS Security Incident Response

What is AWS Security Incident Response?

AWS Security Incident Response helps you respond when it matters most. The service combines the power of automated monitoring and investigation, accelerated communication and coordination, and direct 24/7 access to the AWS Customer Incident Response Team (CIRT) to quickly prepare for, respond to, and recover from security events.

Partner Connections

START COLLABORATING ON MULTI-PARTNER OPPORTUNITIES



The image shows a woman standing on a stage, facing a large screen. The screen displays the 'Partner Connections' interface, which includes a 'NEW' button, the title 'Partner Connections', a description 'Discover, connect, and collaborate on multi-partner opportunities in AWS Partner Central', and a 'AVAILABLE IN PREVIEW TODAY' button. To the right of the screen, there is text: 'Unified co-sell experience in Partner Central, or your own integrated CRM system' and 'The collaboration of multiple partners and AWS Field sellers'. The background is dark, and there are other screens visible on the stage.

PP

Dec, 4th
re:Invent



[AWS Partner Network \(APN\)](#)
[Blog Post](#)



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Storage, Migration and Transfer Services

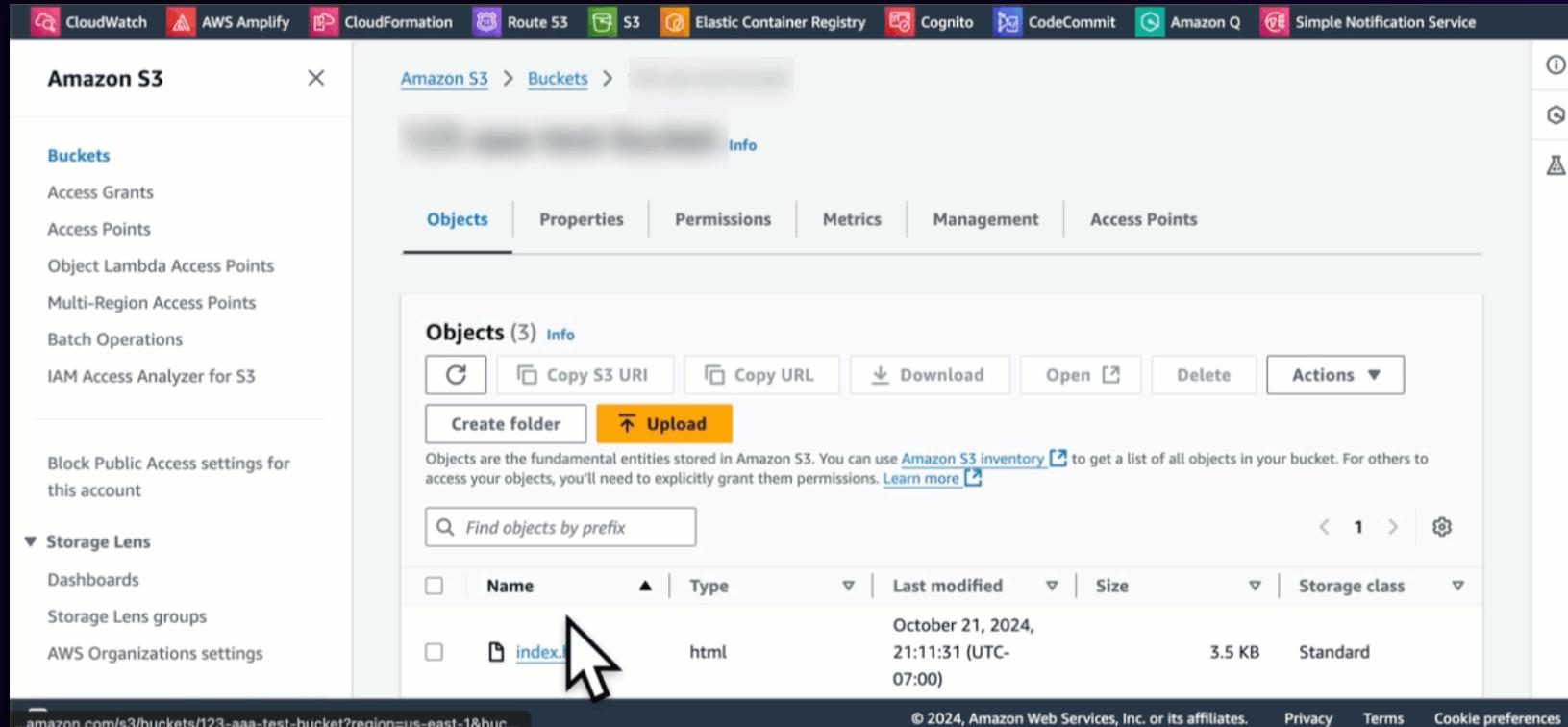
19 announcements (11 *pre-re:Invent*)



Enhance Amazon S3 Static Website Hosting

WITH AWS AMPLIFY HOSTING

From now it is even easier to deploy static websites with content stored in your S3 buckets and serve over a content delivery network (CDN) with just a few clicks powered by *AWS Amplify Hosting*.



The screenshot shows the AWS S3 console interface. On the left, there's a sidebar with various links like CloudWatch, AWS Amplify, CloudFormation, Route 53, S3, Elastic Container Registry, Cognito, CodeCommit, Amazon Q, and Simple Notification Service. The main area shows a bucket named '123-aaa-test-bucket'. The 'Objects' tab is selected, displaying three objects: 'index.html' (an HTML file), 'image1.jpg' (a JPEG image), and 'style.css' (a CSS file). There are buttons for 'Create folder' and 'Upload'. Below the table, there's a note about using the Amazon S3 inventory to get a list of all objects in the bucket.

Name	Type	Last modified	Size	Storage class
index.html	html	October 21, 2024, 21:11:31 (UTC-07:00)	3.5 KB	Standard
image1.jpg	image	October 21, 2024, 21:11:31 (UTC-07:00)	1.2 MB	Standard
style.css	css	October 21, 2024, 21:11:31 (UTC-07:00)	1.2 KB	Standard



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Oct, 30th

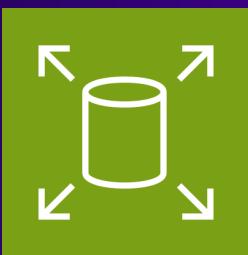
pre-re:Invent

All Regions



[AWS News Blog Post](#)

Time-based snapshot copy for Amazon EBS



GA

You can now specify a desired **completion duration** (15 min - 48 h) when you copy an *Amazon Elastic Block Store (EBS)* snapshot within or between AWS Regions and/or accounts.

Nov, 26th

pre-re:Invent

All Regions

This will help you to meet time-based compliance and business requirements for critical workloads e.g., disaster recovery for meeting recovery point objective (*RPO*) or development/testing needs.

The screenshot shows the 'Copy snapshot' page in the AWS Management Console. It displays a source snapshot ('snap-014de945121ca7367') from the 'eu-west-3' region. In the 'Snapshot copy details' section, there is a 'Description' field containing '[Copied snap-014de945121ca7367 from eu-west-3] Vol2_Snap_2024_11_02'. The 'Destination Region' is set to 'us-east-1'. Below these fields, the 'Time-based copy - new' section is visible, featuring a checkbox for 'Enable time-based copy' which is checked, and a 'Completion duration' input field set to '15' minutes. Two orange arrows point to these specific fields: one arrow points to the 'Completion duration' input field, and another arrow points to the 'Launch copy duration calculator' button located below it.



AWS News Blog Post



Amazon FSx for Lustre increases throughput

UP TO 12X FOR EITHER INTER-NODE CONNECTIVITY OR WITHIN GPU INSTANCES

This announcement focuses on adding support for *Elastic Fabric Adapter (EFA)* and *NVIDIA GPUDirect Storage (GDS)* in the newest version of Amazon FSx for Lustre (from 2.15).

It means, that you can benefit much higher throughput for inter-node communication via *EFA* or much higher throughput after creating a direct path between local/remote storage and GPU memory via *GDS*.

For both, it provides 12x higher per-client throughput (up to 1200 Gbps) in comparison to older versions.

Specify file system details

File system details

File system name - optional | [Info](#)
test-efa
Maximum of 256 Unicode letters, whitespace, and numbers, plus + = . _ : /

Deployment and storage type | [Info](#)
Select a deployment type and storage type to fit your workload requirements

Persistent, SSD
 with EFA enabled. (arrow pointing here)

Persistent, HDD
 with SSD cache

Scratch, SSD

Throughput per unit of storage | [Info](#)
Throughput (MB/s) per unit of storage (TiB)
 1000 MB/s/TiB

Storage capacity | [Info](#)
4.8 TiB
Supported sizes for 1,000 MB/s/TiB EFA enabled filesystems: 4.8 TiB or increments of 4.8 TiB

Throughput capacity | [Info](#)
Throughput capacity = Storage capacity (TiB) * Per unit storage throughput (MB/s)
4800 MB/s

Metadata Configuration | [Info](#)
Amazon FSx provides 12K Metadata IOPS per 24 TiB of data storage capacity. You can also provision additional Metadata IOPS as needed.

Automatic
6000 IOPS

User-provisioned

Data compression type | [Info](#)
Data compression reduces the physical disk space needed to store file data. Select LZ4 to enable data compression

Lustre version | [Info](#)
Lustre version 2.15 is recommended for all new file systems.
2.15



GA

Nov, 27th

pre-re:Invent

All Regions



[AWS News Blog Post](#)



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Data integrity protections in Amazon S3

UPDATING DEFAULT BEHAVIOR, AWS SDK UPDATE, AND NEW ALGORITHM (CRC64NVME)



GA

With this announcement, a default behavior for calculating data integrity when uploading new objects to *Amazon Simple Storage Service (S3)* will change. **With the use of the newest AWS SDK, by default, checksum will be calculated on client-side in addition to server-side.**

Dec, 1st
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All Regions

Using supported checksum algorithms

⚠ Important

Starting on December 1, the CRC-64NVME checksum algorithm and improved checksum integrity features will become available in the coming weeks. These new checksum protections will be available in all AWS Regions, including the AWS GovCloud (US) and China Regions.

With Amazon S3, you can choose a checksum algorithm to validate your data during uploads. The specified checksum algorithm is then stored with your object and can be used to validate data integrity during downloads. You can choose one of the following Secure Hash Algorithms (SHA) or Cyclic Redundancy Check (CRC) checksum algorithms to calculate the checksum value:

- CRC64-NVME (Recommended)
- CRC-32
- CRC-32C
- SHA-1
- SHA-256



AWS News Blog Post



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Storage Browser for Amazon S3

It's an **open source UI component** distributed with [AWS Amplify UI](#), that you can add to your web applications to enable end users to interact with your data stored in Amazon S3.

GA

With this front-end component, authorized end users can browse, upload, download, copy, and delete data from Amazon S3 based on their specific permissions, which you control using AWS identity and security services or custom managed solutions.

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Open Source

Storage Browser for Amazon S3

The StorageBrowser component gives your end users a simple, visual interface for working with your data.

[React source](#) [Feedback](#)

Home

Folder	Bucket	Permissions
some/path/	test	Read/Write
test-bucket	test-bucket	Read
test/	test	Read/Write

```
import * as React from 'react';
import { StorageBrowser } from './MockStorageBrowser';

export default function Example() {
  return <StorageBrowser />;
}
```

Theming

The `StorageBrowser` component is built on Amplify UI components so if you already have an Amplify UI theme it will just work with the Storage Browser out of the box. The components used in the Storage Browser are: `<Button>`, `<Breadcrumbs>`, `<Menu>`, `<Pagination>`, `<SearchField>`, `<Checkbox>`, `<TextField>`, and `<Message>`.

Theme object

You can use the `createTheme()` function to theme the `StorageBrowser` component

Home

Folder	Bucket	Permissions
some/path/	test	Read/Write
test-bucket	test-bucket	Read
test/	test	Read/Write

```
import * as React from 'react';
import { StorageBrowser } from './MockStorageBrowser';

export default function Example() {
  return <StorageBrowser />;
}
```

Copy



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AWS News Blog Post



AWS Transfer Family Web Apps for S3

Fully-managed, no-code web applications that allow authenticated users to operate on objects like they are well-known files and directories for specific *Amazon S3* buckets without a need for custom clients, scripts, and *similar*.

GA

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re:Invent

9 Regions

The screenshot shows a web-based file transfer interface. At the top left is the 'JeffCo' logo and 'File Transfer Portal'. At the top right is a user dropdown menu showing 'Jeff Barr'. Below the header is a breadcrumb navigation bar with 'Home / jeffco'. The main area is titled 'jeffco' and contains a search bar with 'Search current folder' and 'Submit' button, and a checkbox for 'Include subfolders'. Below the search is a table with columns: Name, Type, Last Modified, and Size. The table lists several items:

Name	Type	Last Modified	Size
Presentations/	Folder		
Reports/	Folder		
Uploads/	Folder		
FAQ_v1.docx	docx	10/23/2024, 3:22:08 PM	13.1 kB
QuotableTweetable.pptx	pptx	10/23/2024, 3:22:09 PM	123.6 kB



[AWS News Blog Post](#)



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Amazon FSx Intelligent-Tiering

AVAILABLE FOR AMAZON FSX FOR OPENZFS OFFERING UP TO 85% LESS THAN SSD STORAGE



GA

Dec, 1st

re:Invent

10 Regions

Amazon FSx offers now a new Intelligent-Tiering storage class that automatically optimize storage costs as data patterns change, without any upfront commitments.

This storage class delivers low-cost storage and **costs up to 85% less** than the FSx SSD storage class.

The screenshot shows the 'Quick configuration' step of a CloudFormation stack creation. The 'File system name - optional' field contains 'zfs-fsx'. The 'Storage class' section is expanded, showing two options: 'SSD (provisioned)' (selected) and 'Intelligent-Tiering (elastic)' (selected). The 'Deployment type' section is also expanded, showing three options: 'Multi-AZ (HA)' (selected), 'Single-AZ (HA)', and 'Single-AZ (HA)'. The 'Throughput capacity' field is set to '1280 MB/s'. The 'SSD read cache sizing mode' field is set to 'Automatic (proportional to throughput capacity)'. The top of the screen shows the AWS logo, navigation bar, and search bar.



[AWS News Blog Post](#)



AWS Data Transfer Terminal

SECURE PHYSICAL LOCATIONS FOR UPLOADING DATA FROM YOUR STORAGE DEVICES TO CLOUD

GA

AWS Data Transfer Terminal
is a completely new offering
announced this year.

It is a secure physical location
which you can reserve and
bring your storage devices (or
AWS Snowball) to upload data
faster to AWS Cloud.

The screenshot shows the AWS Data Transfer Terminal Transfer Teams interface. On the left, there's a sidebar with 'Data Transfer Terminal' and 'Transfer Teams'. The main area is titled 'ChannyTeam' and contains a 'Transfer Team summary' section with the name 'ChannyTeam' and a description 'The pilot team to test upload data.' Below this are tabs for 'Reservations' (selected) and 'Personnel'. The 'Upcoming reservations' section lists two entries:

ID	Facility	Status	Process Owner	Starts at
rsv-3aep5e07ya	QTS. JFK Piscataway, NJ	Reserved	Channy	November 29th, 2024, 09:00
rsv-m4udf4ta92	QTS. JFK Piscataway, NJ	Requested	Channy	December 4th, 2024, 13:00

The 'Past reservations' section is currently empty.

Dec, 1st
re:Invent
2 Locations
(LA, NY)



[AWS News Blog Post](#)



Amazon S3 Tables

STORAGE OPTIMIZED FOR ANALYTICS WORKLOADS POWERED BY APACHE ICEBERG



GA

This announcement adds a 3rd type of S3 bucket:

S3 Tables

They act as an analytics warehouse that stores Apache Iceberg tables (using Apache Parquet format as storage layer) delivering the same S3 bucket capabilities at the same time being optimized for analytics workloads.

The screenshot shows the 'Create table bucket' wizard in the Amazon S3 console. The top navigation bar includes 'Amazon S3', 'Table buckets', and 'Create table bucket'. The main title is 'Create table bucket' with a 'Info' link. Below it, a sub-instruction reads: 'Table buckets are table storage that is optimized for analytics workloads.' A 'Properties' section contains a 'Table bucket name' input field containing 'jbarr-table-bucket-3'. A note below states: 'Table bucket names must be 3 to 63 characters and unique within the account for this AWS Region. Valid characters are a-z, 0-9, and hyphens (-). [See rules for bucket naming](#)'.

A 'Integration with AWS analytics services' section explains: 'To access table buckets from AWS query engines such as Amazon Athena, Amazon Redshift, and Amazon EMR, table buckets must be integrated with AWS analytics services. After this integration is enabled, all table buckets in this account and Region will automatically be available in AWS Glue Data Catalog under the catalog named s3tablescatalog. [Learn more about the integration](#). This integration uses the AWS Glue and AWS Lake Formation services and might incur Glue request and storage costs. [View AWS Glue pricing](#)'.

The 'Integration status for the US East (N. Virginia) us-east-1 Region' shows 'Enabled' with a green circular icon.

At the bottom right are 'Cancel' and 'Create table bucket' buttons.

Dec, 3rd

re:Invent

3 Regions

Open Source



[AWS News Blog Post](#)



Amazon S3 Metadata

EASIEST AND FASTEST WAY TO MANAGE AND QUERY YOUR OBJECTS METADATA



PP

Fully managed automated way for capturing objects metadata across your S3 buckets.

It is an opt-in mechanism on per bucket level, that stores metadata when objects are added and modified.

It stores that in an Apache Iceberg table with schema containing over 20 fields and being accessible for AWS analytics services and open source tools like Apache Spark.

jbarr-data-bucket-1

Objects | **Metadata - New** | Properties | Permissions | Metrics | Management | Access Points

Metadata - New [Info](#)

Accelerate data discovery with automatically generated, near real-time metadata for objects in this bucket, stored in a fully managed Apache Iceberg table. You can query this metadata table to identify and prepare data for use in business analytics and machine learning, identify AI-generated data, retrieve content, and more.

Getting started with metadata

Step 1 - Create a metadata configuration for your bucket
Create a configuration to generate and store object metadata in an S3 managed metadata table. As long as the configuration is active on the bucket, S3 continuously updates the metadata table to reflect the latest changes.

Step 2 - Analyze and build with your metadata tables
Your metadata table is instantly queryable by any AWS query engine that supports Apache Iceberg, such as Amazon Athena, Amazon QuickSight, and Apache Spark. Use the wide range of AWS services to analyze and build with your metadata. [Learn more](#)

Overview

You can interact with your metadata table by using any AWS query engine that supports Apache Iceberg. Before you can view the generated metadata table, your destination table bucket must be integrated with AWS Glue Data Catalog. [Learn more](#)

[Go to Athena query editor](#)

Status
Active

Metadata table ARN
[arn:aws:s3:table:us-east-2:jbarr-data-bucket-1/table/cbc78a9a-7a36-4278-a231-f2a2b9363855](#)

Destination table bucket
jbarr-table-bucket-1

Namespace
aws_s3_metadata

Metadata table name
jbarr_data_bucket_1_table

Dec, 3rd

re:Invent

3 Regions

Open Source



AWS News Blog Post



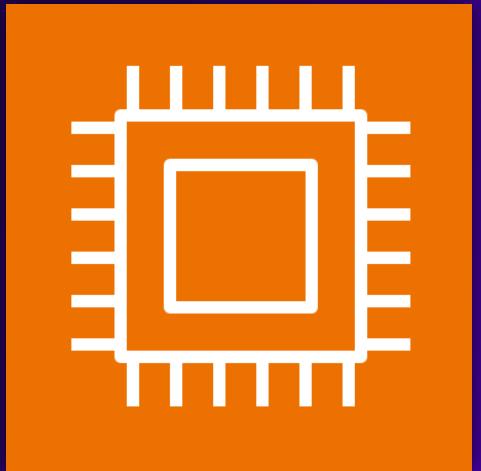
Other Announcements



1. [Amazon S3 now supports up to 1M buckets per AWS Account](#) (pre-re:Invent)
2. [Amazon S3 adds new functionality for conditional writes](#) (pre-re:Invent)
3. [Amazon S3 Express One Zone updates:](#)
 - a) [Support for the ability to append data to an object](#) (pre-re:Invent)
 - b) [Three additional regions](#) (pre-re:Invent)
 - c) [Support for conditional deletes](#) (pre-re:Invent)
 - d) [Support for S3 Lifecycle Expirations](#) (pre-re:Invent)
4. [AWS Database Migration Service \(DMS\) supports data masking](#) (pre-re:Invent)
5. [Cross-account replication for Amazon EFS](#) (pre-re:Invent)
6. [AWS Database Migration Service automates schema conversion using AI](#) (re:Invent)

Compute and Containers

16 announcements (5 *pre-re:Invent*)



Predictive scaling for Amazon ECS

PROACTIVELY SCALE CLUSTERS REDUCING OVERPROVISIONING WHILE IMPROVING AVAILABILITY



GA

Nov, 21st

pre-re:Invent

All Regions

Predictive Scaling is a new scaling policy within Amazon ECS Service Auto Scaling, that is designed to anticipate demand surges by using machine learning (ML) algorithms.

The goal here is to scale your services ahead of surge, reducing overprovisioning while improving application responsiveness and availability.

Scaling policies		Scheduled actions	Recommendations
Scaling policies (5) Info			
<input type="text"/> Find a scaling policy		Actions ▾	Create scaling policy
		< 1 >	
Name	Type	Status	Scaling mechanism
ps-cpu-10	Predictive Scaling	⌚ Forecast only	Add capacity based on forecast
ps-cpu-25	Predictive Scaling	⌚ Forecast only	Add capacity based on forecast
ps-cpu-55	Predictive Scaling	⌚ Forecast only	Add capacity based on forecast
ps-cpu-60	Predictive Scaling	⌚ Forecast and scale	Add capacity based on forecast
tt-cpu-60	Target Tracking	⌚ Active	Maintain target



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AWS Containers Blog Post

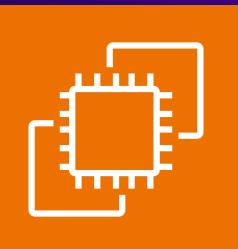
Future-dated Capacity Reservations

UP TO 120 DAYS IN ADVANCE RESERVATION FOR AMAZON EC2 ON-DEMAND INSTANCES

With this announcement, **EC2 On-Demand Capacity Reservations** supports scheduling reservation up to 120 days in advance, with no upfront charges for scheduling the reservation.

After reviewing and approving the reservation, it will be scheduled to activate and be ready for the requested at a given date.

The screenshot shows the 'Capacity Reservation details' section of the AWS EC2 console. It includes fields for 'Start date (UTC-07:00)' (set to 2024/12/02 at 09:00:00), 'Commitment duration' (set to 14 days), and 'Capacity Reservation ends' (set to 'Manually'). A note states that the reservation continues until manually canceled. At the bottom, 'Instance eligibility' is set to 'Targeted: Only instances that target the Capacity Reservation'.



GA

Nov, 25th

pre-re:Invent

All Regions

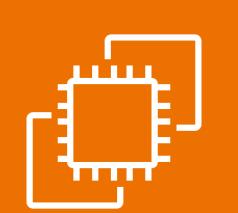


AWS News Blog Post



New instances for Amazon EC2

UPDATES FOR STORAGE AND GPU-POWERED EC2 INSTANCE FAMILIES



GA

CS

Dec, 1st

Dec, 2nd

re:Invent

Limited
Regions

- i8g: powered by AWS Graviton4 and 3rd gen AWS Nitro SSDs (*2 regions*)
- i7ie: with Intel Xeon and low-latency NVMe storage (*6 regions*)
- p5en: with NVIDIA H200 Tensor Core GPUs and EFA v3 networking (*3 regions*)
- p6: with NVIDIA Blackwell GPUs (*coming soon*)

Capacity Blocks requirements

Capacity attributes

Instance type

p5en.48xlarge
192 vCPU 2 TiB Memory 1128 GB HBM3 GPU

Platform

Linux/UNIX

Platforms other than Linux/UNIX incur a usage-based charge while your instances are running.
[Learn more](#)

Total capacity

16 instance(s)

The instance purchase quantity must be 1, 2, 4, 8, 16, 32, or 64 instances.

Duration

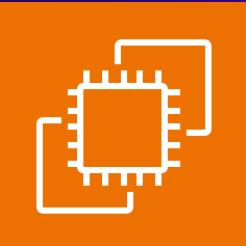
The number of days for which you want to purchase Capacity Block.

10 day(s)

The duration must be within 1-14 days, 21 days, or 28 days.

Amazon EKS Auto Mode

AMAZON ELASTIC KUBERNETES SERVICE (EKS): PROVISIONING TO MAINTENANCE WITH 1-CLICK



GA

Dec, 1st

re:Invent

All Regions

Amazon EKS Auto Mode is streamlining Kubernetes cluster management for compute, storage, and networking – from provisioning to maintenance with a single click.

You can create new clusters with Auto Mode or enable it for existing clusters.

Configure cluster

Configuration options - new Info
Choose how you would like to configure the cluster.

Quick configuration (with EKS Auto Mode) - new Info
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.
 (C)

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.
 (C)

Cluster IAM role Info
Select the Cluster IAM role to allow the Kubernetes control plane to manage AWS resources on your behalf. This cannot be changed after the cluster is created. To create a new custom role, follow the instructions in the [Amazon EKS User Guide](#).
 (C)

Node IAM role Info
Nodes need an EC2 Instance IAM Role to launch and register with a cluster. To create a new custom role, follow the instructions in the [Amazon EKS User Guide](#).
 (C)

VPC Info
Select a VPC to use for your EKS cluster resources.
 (C)

Subnets Info
Choose the subnets in your VPC where the control plane may place elastic network interfaces (ENIs) to facilitate communication with your cluster. To create a new subnet, go to the corresponding page in the [VPC console](#).
 (C)

(X) (X)

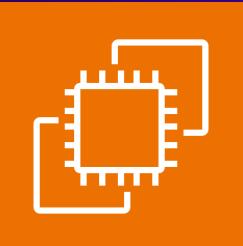


AWS News Blog Post



Amazon EKS Hybrid Nodes

ATTACH ON-PREMISES AND EDGE INFRASTRUCTURE AS NODES TO EKS CLUSTERS IN THE CLOUD

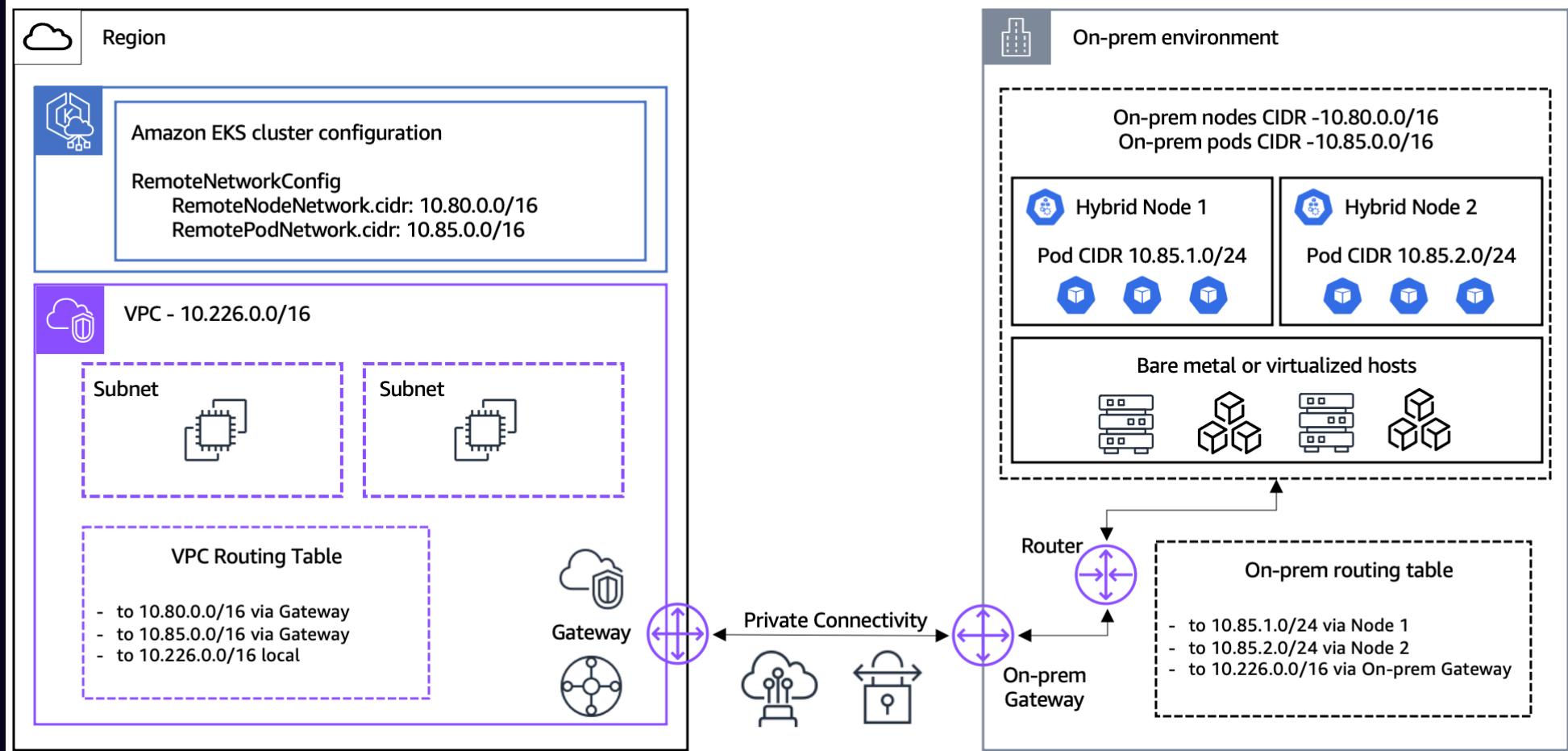


GA

Dec, 1st

re:Invent

All Regions



AWS News Blog Post



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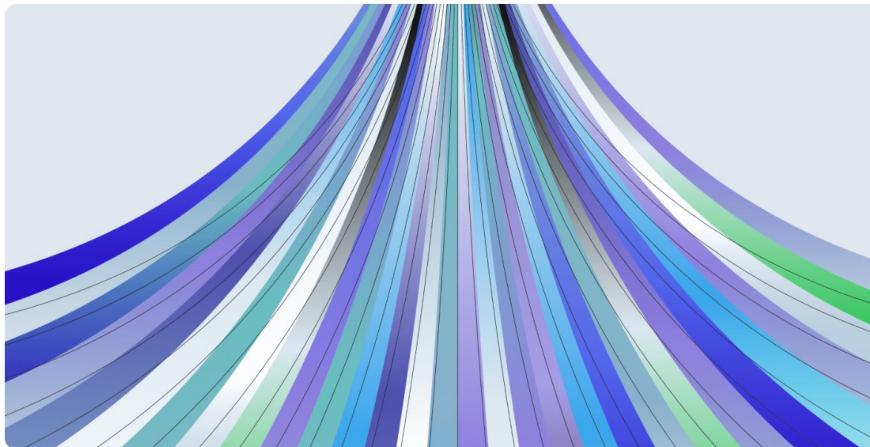
Amazon Elastic VMware Service (EVS)

NATIVE AWS SERVICE TO RUN VMWARE CLOUD FOUNDATION (VCF) WITHIN AMAZON VPC

With Amazon Elastic VMware Service (EVS) preview, AWS is strengthening its commitment to provide customers a native pathway to migrate and modernize their VMware-based workloads on AWS to achieve the scalability, agility, and cost benefits of the cloud.

AWS is committed to delivering VMware customers the most choice and flexibility when it comes to running their VMware-based workloads in the cloud, and continue to expand our migration and modernization pathways, programs, and partnerships to support their needs.

Run VCF on AWS Migrate to Amazon EC2 Modernize on AWS



Relocate your workloads to Amazon Elastic VMware Service

Amazon Elastic VMware Service (Amazon EVS) is the fastest path to migrate and operate VMware workloads on AWS. Get the scale, resilience, and performance of AWS together with familiar VMware Cloud Foundation (VCF) software and tools. Choose from self-managed or managed options to meet your business needs for control and customization of your VMware architecture. Embrace AWS native and managed services for analytics, storage, databases, serverless compute, generative AI, and more to drive business agility, innovation, and transformation.

[Learn more about Amazon EVS \(Preview\)](#)

P

Dec, 1st

re:Invent

*Private
Preview*



[AWS M&M Blog Post](#)

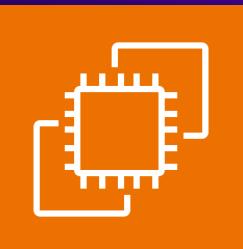
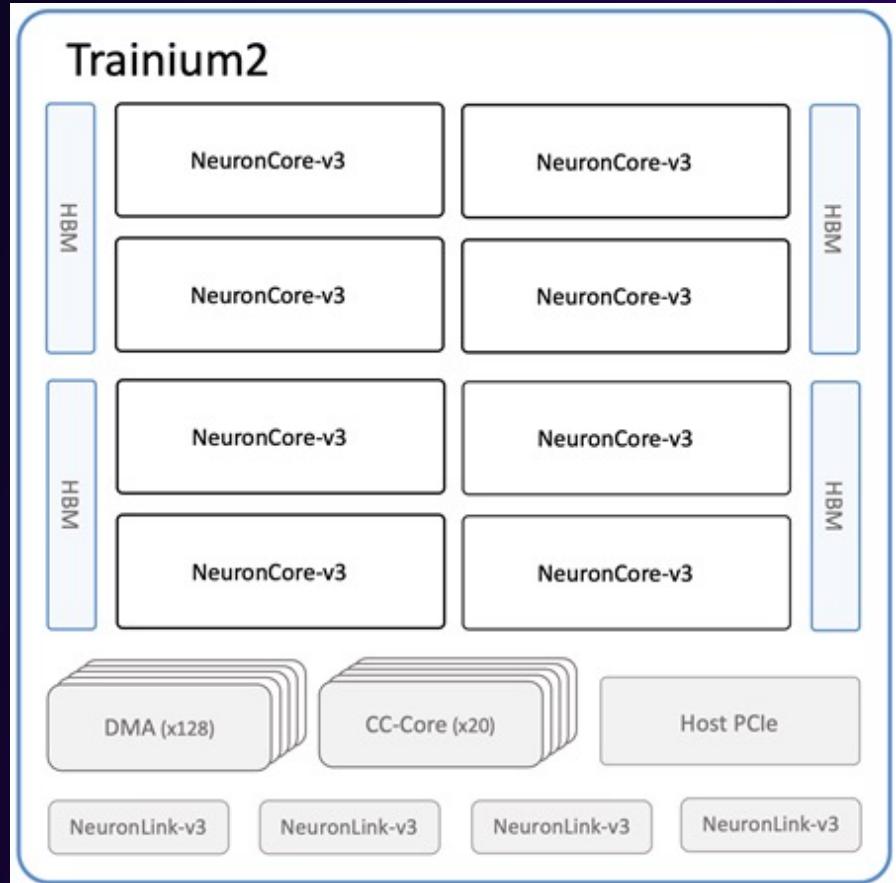
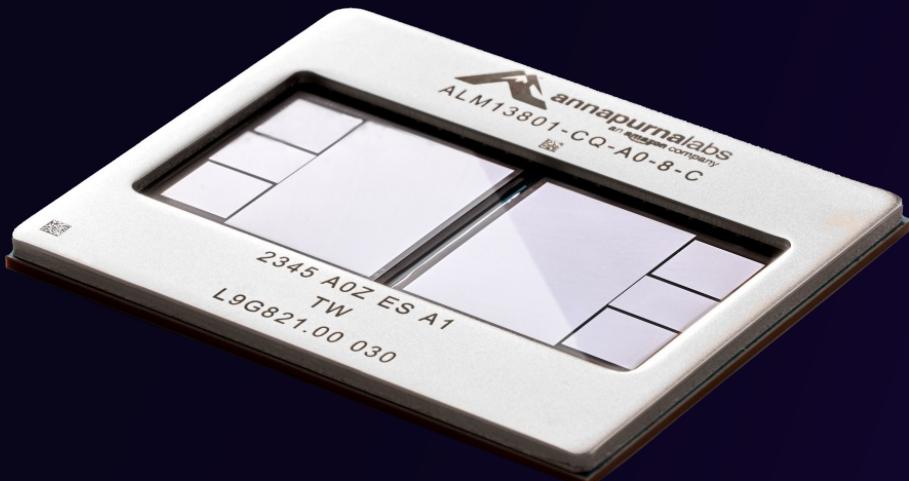


AWS Trainium2 (trn2)

GENERAL AVAILABILITY OF TRN2 INSTANCES AND PREVIEW OF TRN2 ULTRASERVERS

AWS Trainium2 instances are 4x faster, offer 4x more memory bandwidth and 3x more memory capacity than first generation of AWS Trainium.

This makes EC2 instances with those processors the most powerful compute options for ML training and inference – with emphasis on Trn2 UltraServers featuring 64 trn2 chips.



GA

P

Dec, 3rd

re:Invent

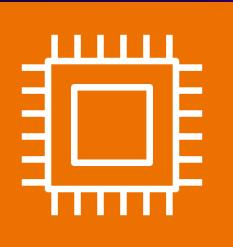
1 Region



[AWS News Blog Post](#)



Other Announcements



1. [Service versioning and deployment history for Amazon ECS services](#) (pre-re:Invent)
2. Other Amazon Elastic Kubernetes Service (EKS) updates:
 - a) [Amazon EKS simplifies providing IAM permissions to EKS add-ons](#) (pre-re:Invent)
 - b) [Amazon EKS enhances Kubernetes control plane monitoring](#) (pre-re:Invent)
3. [Container Insights with enhanced observability now available in Amazon ECS](#) (re:Invent)
4. [AWS shares data center power usage effectiveness numbers for the first time](#) (re:Invent)

Databases

14 announcements (10 *pre-re:Invent*)

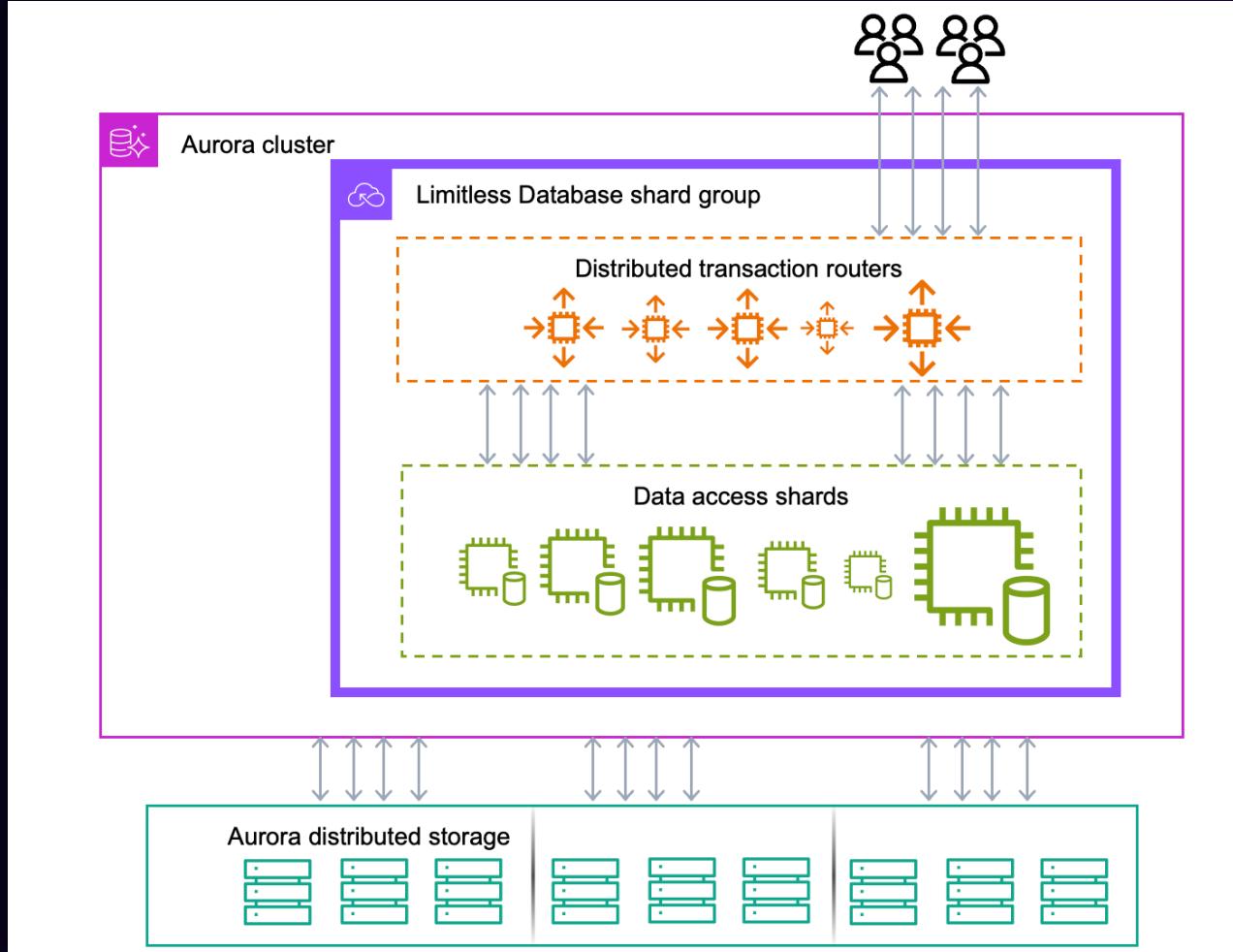


Amazon Aurora PostgreSQL Limitless

GENERAL AVAILABILITY OF LIMITLESS CLUSTERS

Scaling relational database workloads on Amazon Aurora beyond limits of a single writer instance, without a need to create custom application logic or managing multiple databases.

It does not just shard the storage layer, but also automatically scales compute up and down – depending on your workloads usage and without any need to reprovision.



GA

Oct, 31st

pre-re:Invent

10 Regions



[AWS News Blog Post](#)



Amazon DynamoDB: Warm Throughput

EASY PRE-WARMING AMAZON DYNAMO DB TABLES AND INDEXES



GA

Nov, 13th

pre-re:Invent

All Regions

After introducing this update, when creating table or index, a warm throughput value provides visibility into the number of read and write operations your DynamoDB tables can readily handle, while pre-warming lets you proactively increase the value to meet future traffic demands.

The screenshot shows the 'Create table' wizard in the AWS DynamoDB console. In the 'Warm throughput - new' section, it explains that increasing the warm throughput value pre-warms your table to handle planned peak events without throttling or scaling delays. It also notes that warm throughput values are visible for all tables and global secondary indexes and automatically adjust as provisioned throughput or on-demand consumption increases. A link to 'Amazon DynamoDB pricing' is provided for more information. Below this, there are three sections for configuring throughput: 'Read units per second' (set to 'Keep default values'), 'Write operations per second' (set to 'Keep default values'), and 'Write units per second' (set to '4,000'). At the bottom of the configuration section, there is a 'Secondary indexes' table with a single row labeled 'No indexes'. This table includes columns for 'Name', 'Type', 'Partition key', 'Sort key', 'Projected attributes', and 'Warm throughput'. Buttons for 'Delete', 'Create local index', and 'Create global index' are available. At the very bottom of the configuration section, there is an 'Encryption at rest' note stating that all user data stored in Amazon DynamoDB is fully encrypted at rest by default, managed by Amazon DynamoDB, and no fee is charged for using it. Navigation links for 'CloudShell' and 'Feedback' are at the bottom left, and copyright information for 2024, Amazon Web Services, Inc. or its affiliates, along with 'Privacy', 'Terms', and 'Cookies' links, are at the bottom right.



AWS Announcement



Price reduction for Amazon DynamoDB

50% REDUCTION FOR ON-DEMAND THROUGHPUT AND UP TO 67% FOR GLOBAL TABLES



GA

Nov, 14th

pre-re:Invent

All Regions

Our continued engineering investments on how efficiently we can operate Amazon DynamoDB allow us to identify and pass on cost savings to you.

From November 1st, 2024, DynamoDB has reduced prices for **on-demand throughput by 50%** and **global tables by up to 67%**, making it more cost-effective than ever to build, scale, and optimize applications.



Scale to zero for Amazon Aurora Serverless

AMAZON AURORA SERVERLESS V2 SUPPORTS SCALING TO 0 AURORA CAPACITY UNITS (ACUS)



GA

Nov, 20th

pre-re:Invent

All Regions

Amazon Aurora Serverless v2 supports scaling to **zero** Aurora Capacity Units (ACUs).

This launch enables the database to automatically pause after a period of inactivity based on database connections.

When the first connection is requested, the database will automatically resume and scale to meet the application demand.



[AWS Database Blog Post](#)



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Amazon MemoryDB Multi-Region

ACTIVE-ACTIVE, MULTI-REGION, FULLY MANAGED VALKEY AND REDIS-COMPATIBLE DATABASE



Amazon Memory DB from now supports creation of multi-region clusters in active-active configuration mode for Valkey and Redis that allows for microsecond read and single-digit write latencies.

GA

Dec, 1st

re:Invent

12 Regions

The screenshot shows the 'Multi-Region cluster settings' step of the 'Create cluster' wizard. On the left, a sidebar lists steps: Step 1 (Multi-Region cluster settings, selected), Step 2 (Region 1 cluster settings), and Step 3 (Review and create). The main area has a title 'Multi-Region cluster settings' with an 'Info' link. It contains two sections: 'Creation method' and 'Cluster creation method'. Under 'Creation method', there are two options: 'Single-Region cluster' (unselected) and 'Multi-Region cluster' (selected). The 'Multi-Region cluster' option is described as 'Create a multi-Region cluster that spans multiple AWS Regions.' Under 'Cluster creation method', there are three options: 'Easy create' (unselected), 'Create new cluster' (selected), and 'Restore from snapshots' (unselected). The 'Create new cluster' option is described as 'Set all of the configuration options for your new cluster.' At the bottom, there's a section titled 'Multi-Region cluster info' with a note: 'Configure the name and description of your multi-Region cluster.'



AWS News Blog Post



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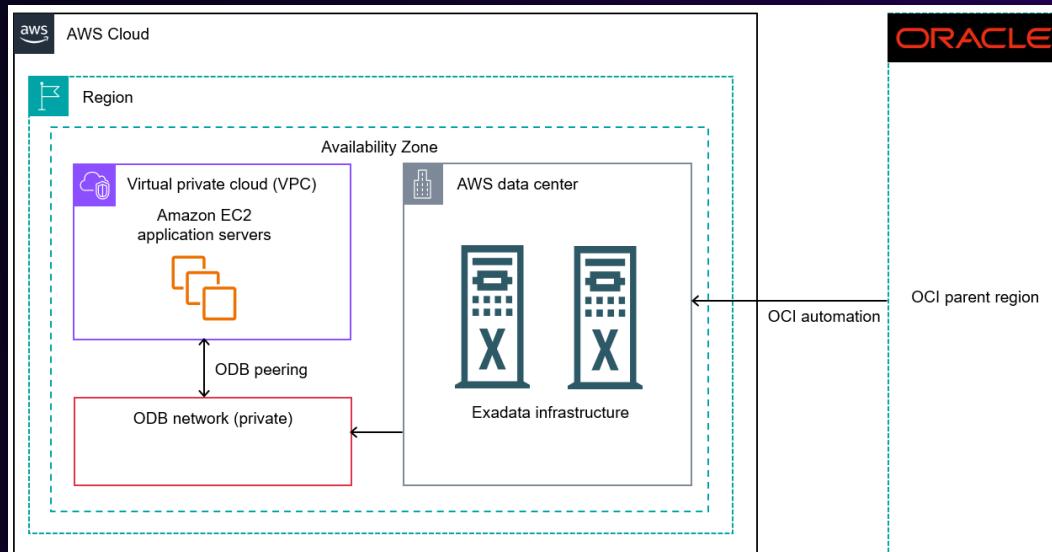
Oracle Database@AWS

FULLY-MANAGED AND AWS-POWERED ORACLE EXADATA DATABASE SERVICE

Oracle Database@AWS is a new offering from AWS and Oracle available from now in limited preview.

It enables customers to access Oracle Database Services on Oracle Cloud Infrastructure (OCI) managed Exadata infrastructure within AWS data centers.

Customers can easily and quickly migrate their Oracle Database workloads, including Oracle Real Application Clusters (RAC) workloads, to Oracle Exadata Database Service within AWS with minimal to no changes.



[AWS Announcement](#)

Multi-Region Strong Consistency

AMAZON DYNAMODB GLOBAL TABLES MULTI-REGION STRONG CONSISTENCY



PP

Dec, 3rd

re:Invent

3 Regions

Amazon DynamoDB Global Tables are now supporting in preview multi-region strong consistency.

For now you can enable it only in 3 US-based regions: us-east-1 (*N. Virginia*), us-east-2 (*Ohio*), and us-west-2 (*Oregon*).



AWS Announcement



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Amazon Aurora DSQL

SERVERLESS, POSTGRESQL-COMPATIBLE DATABASE WITH ACTIVE-ACTIVE MULTI-REGION SETUP



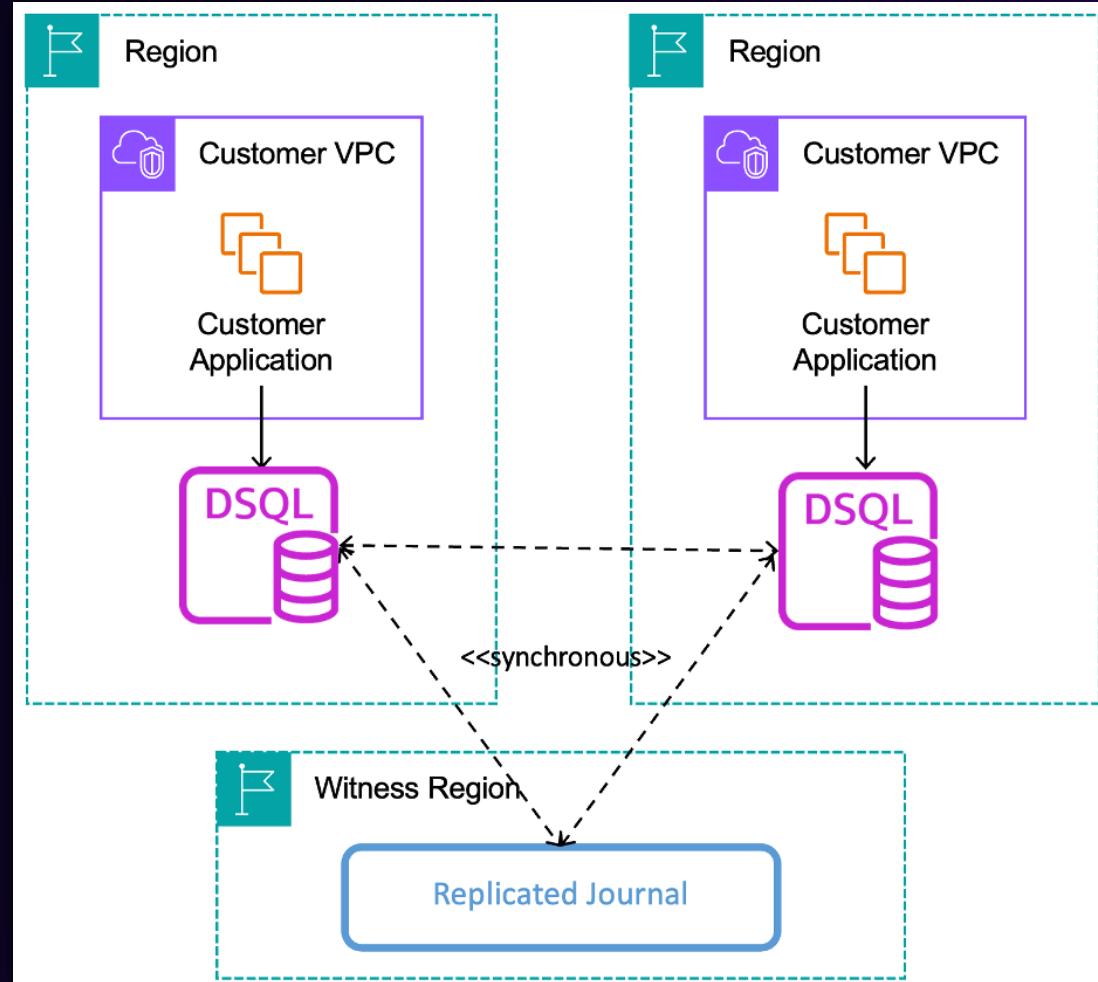
PP

Dec, 3rd
re:Invent
3 Regions

Amazon Aurora DSQL is a serverless distributed SQL database with multi-region active-active capabilities.

Aurora DSQL is PostgreSQL compatible and its active-active distributed architecture is designed for 99.99% single-region and 99.999% multi-region availability with no single point of failure, and automated failure recovery.

This ensures that all reads and writes to any regional endpoint are strongly consistent and durable.



Other Announcements



1. [Provisioned Timestream Compute Units \(TCUs\) for Amazon Timestream for Live Analytics \(pre-re:Invent\)](#)
2. [Amazon RDS for PostgreSQL supports pgvector 0.8.0 \(pre-re:Invent\)](#)
3. Valkey-related AWS Services updates:
 - a) [Support for Valkey 8.0 in Amazon ElastiCache \(pre-re:Invent\)](#)
 - b) [Valkey GLIDE 1.2 \(pre-re:Invent\)](#)
4. [Amazon RDS Blue/Green Deployments enhancements:
 - a\) \[Storage volume shrink \\(pre-re:Invent\\)\]\(#\)
 - b\) \[Minor version upgrade for PostgreSQL \\(pre-re:Invent\\)\]\(#\)](#)

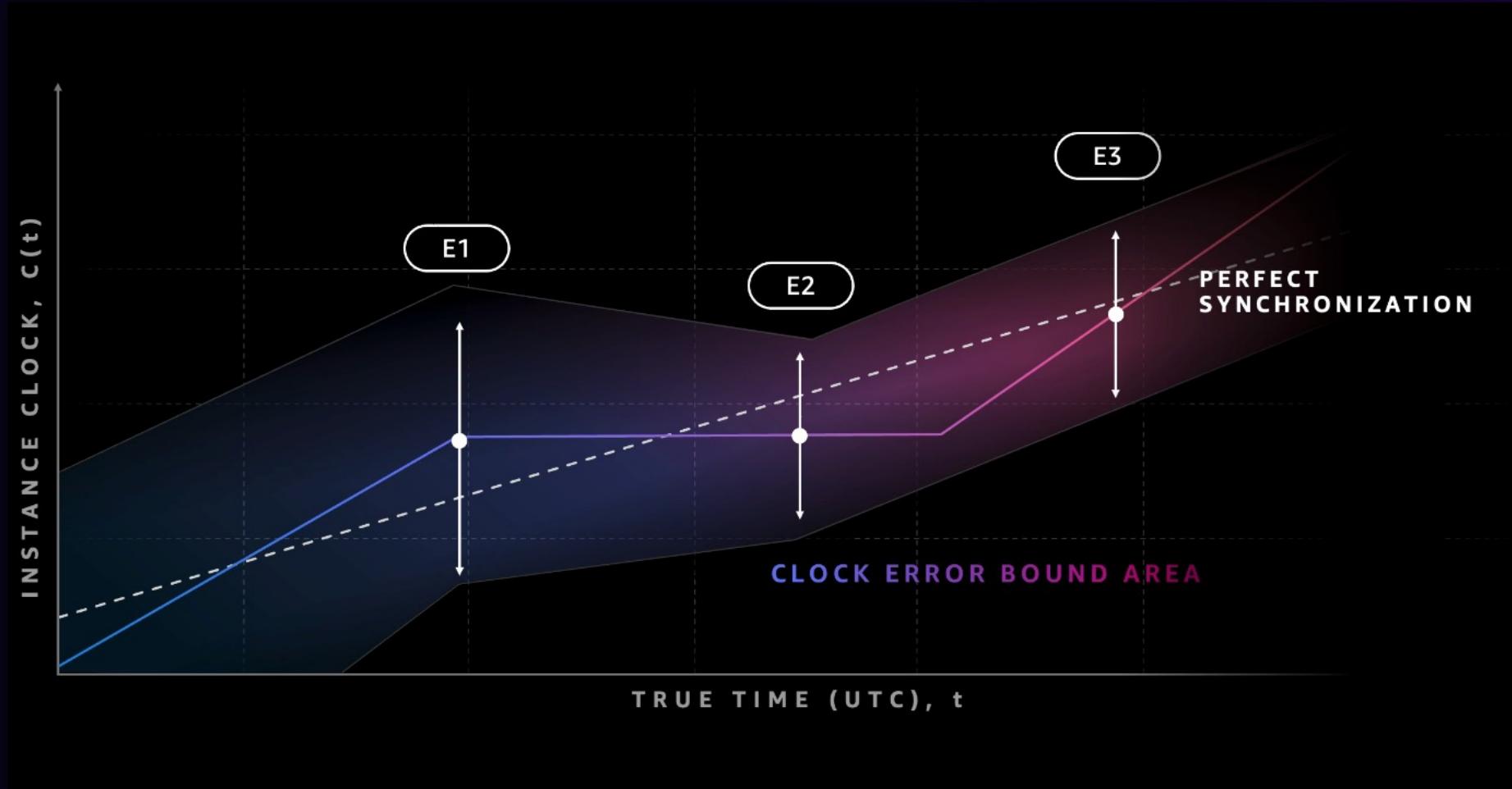
ClockBound

GENERATING, COMPARING, AND ERROR-CORRECTING TIMESTAMPS FROM TRUSTED TIME SERVICE

Dec 5th
re:Invent

Open Source

GA



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[aws/clock-bound](https://github.com/aws-clock-bound)
GitHub Repository

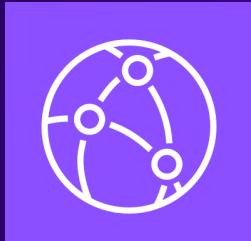
Networking and Content Delivery

8 announcements (*6 pre-re:Invent*)



Amazon CloudFront supports gRPC APIs

DEPLOY CLOUDFRONT DISTRIBUTIONS IN FRONT OF GRPC API ENDPOINTS



GA

Nov, 20th

pre-re:Invent

All Regions

With this announcement, you can deploy Amazon CloudFront distributions in front of your gRPC API endpoints and benefit from two things:

1. Latency reduction between client and API, thanks to the nature of Content Delivery Network (CDN).
2. Additional security services deployed on edge locations – including traffic encryption, HTTP headers validation (via AWS Web Application Firewall) and AWS Shield Standard protection from distributed denial of service (DDoS) attacks.

Viewer

Viewer protocol policy

- HTTP and HTTPS
- Redirect HTTP to HTTPS
- HTTPS only

Allowed HTTP methods

- GET, HEAD
- GET, HEAD, OPTIONS
- GET, HEAD, OPTIONS, PUT, POST, PATCH, DELETE

Cache HTTP methods

GET and HEAD methods are cached by default.

- OPTIONS

Allow gRPC requests over HTTP/2

[Info](#)

- Enable

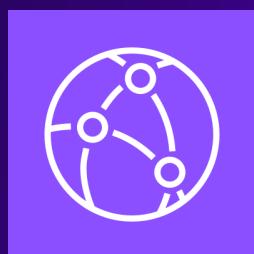


[AWS News Blog Post](#)



Amazon CloudFront VPC Origins

EXPOSE SECURELY PRIVATE RESOURCES FROM AMAZON VPC VIA AMAZON CLOUDFRONT



GA

Nov, 20th

pre-re:Invent

All Regions

Amazon CloudFront VPC Origins is a new feature that enables content delivery from applications hosted in private subnets within Amazon VPC.

This makes it easy to secure web applications, allowing you to focus on growing your businesses while improving security and maintaining high-performance and global scalability of Content Delivery Network (CDN) via Amazon CloudFront.

AWS > Documentation > Amazon CloudFront > Developer Guide

Restrict access with VPC origins

[Download PDF](#) [RSS](#) Focus mode

You can use CloudFront to deliver content from applications that are hosted in your virtual private cloud (VPC) private subnets. You can use Application Load Balancers (ALBs), Network Load Balancers (NLBs), and EC2 instances in private subnets as VPC origins.

Here are some reasons why you might want to use VPC origins:

- **Security** – VPC origins is designed to enhance the security posture of your application by placing your load balancers and EC2 instances in private subnets, making CloudFront the single point of entry. User requests go from CloudFront to the VPC origins over a private, secure connection, providing additional security for your applications.
- **Management** – VPC origins reduces the operational overhead required for secure connectivity between CloudFront and origins. You can move your origins to private subnets with no public access, and you don't have to implement access control lists (ACLs), secret shared headers, or other mechanisms to restrict access to your origins. This way, you don't have to invest in undifferentiated development work to secure your web applications with CloudFront.
- **Scalability and performance** – VPC origins helps you to secure your web applications, freeing up time to focus on growing your critical business applications while improving security and maintaining high-performance and global scalability with CloudFront. VPC origins streamlines security management and reduces operational complexity so that you can use CloudFront as the single point of entry for your applications.

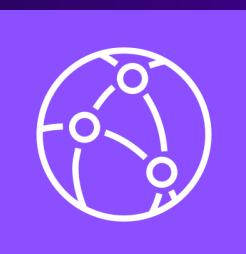


[AWS News Blog Post](#)



Amazon CloudFront Functions Update

CONDITIONALLY UPDATE OR CHANGE ORIGIN SERVERS ON EACH REQUEST



GA

Amazon CloudFront now supports origin modification within CloudFront Functions, enabling you to conditionally change or update origin servers on each request.

You can now write custom logic in CloudFront Functions to overwrite origin properties, use another origin in your CloudFront distribution, or forward requests to any public HTTP endpoint.

[AWS](#) > [Documentation](#) > [Amazon CloudFront](#) > [Developer Guide](#)

Helper methods for origin modification

[PDF](#)

[RSS](#)

Focus mode

This section applies if you dynamically update or change the origin used on the request inside your CloudFront Functions code. You can update the origin on *viewer request* CloudFront Functions only. CloudFront Functions has a module that provides helper methods to dynamically update or change the origin.

To use this module, create a CloudFront function using JavaScript runtime 2.0 and include the following statement in the first line of the function code:

```
import cf from 'cloudfront';
```

For more information, see [JavaScript runtime 2.0 features for CloudFront Functions](#).

Nov, 21th

pre-re:Invent

All Regions



Access VPC resources via AWS PrivateLink

AND INTEGRATE THEM DIRECTLY WITH AWS STEP FUNCTIONS OR AMAZON EVENTBRIDGE



GA

Dec, 1st

re:Invent

21 Regions

You can now share AWS resources such as Amazon EC2 instances, Amazon ECS and Amazon EKS container services, and your own HTTPS services across Amazon VPC and AWS account boundaries and use them to build event-driven apps via Amazon EventBridge and orchestrate workflows with AWS Step Functions.

The screenshot shows a Step Function workflow named "Call HTTPS APIs". The workflow consists of three main steps: a Start state, an "HTTP Endpoint Call HTTPS APIs" step, and an End state. The "Call HTTPS APIs" step is currently selected, displaying its configuration details. These details include:

- State name:** Call HTTPS APIs
- State type:** Task: HTTP endpoint
- API Arguments:** API endpoint: https://service1...com
- Method:** GET
- Authentication:** MyService1 (Status: Active)
- Request body - optional:** The default is JSON. To send URL-encoded values, see options under Advanced parameters.



AWS News Blog Post



Other Announcements



1. [**Built-in Amazon ECS support in Amazon VPC Lattice \(pre-re:Invent\)**](#)
2. [**Load Balancer Capacity Unit Reservation for ALBs / NLBs \(pre-re:Invent\)**](#)
3. [**UDP support for AWS PrivateLink and dual-stack NLBs \(pre-re:Invent\)**](#)
4. [**Amazon VPC Lattice adds TCP support for VPC Resources \(re:Invent\)**](#)

Analytics

31 announcements (20 *pre-re:Invent*)



Express brokers for Amazon MSK

HIGH THROUGHPUT AND FASTER SCALING FOR AMAZON MANAGED STREAMING
FOR APACHE KAFKA (MSK)



GA

Nov, 7th

pre-re:Invent

9 Regions

Express Broker is a new broker type for Amazon MSK that is designed to improve following capabilities in comparison to *Standard Brokers*:

1. Reduce to minimum storage operations.
2. Deliver 3x more throughput per broker.
3. Scale up to 20x faster.
4. Reduce recovery time by 90%.

In terms of billing, you pay hourly rate (with one-second resolution) varying on the size of the instance and per-GB rate for data written to the broken (with per-byte resolution).

General cluster properties

Cluster type

Choose the type of cluster you want to create. [Learn more](#)

Serverless This option provides on-demand capacity that scales automatically as your application I/O scales.

Provisioned This option allows you to specify the number of brokers and the amount of storage per broker.

Apache Kafka version

Select the Apache Kafka version that you want to run on the brokers. [Learn more](#)

3.6.0 (recommended) [View version compatibility](#)

Metadata mode - new

ZooKeeper

Broker type - new

Select a broker type for your MSK Provisioned cluster. You can't switch between Express and Standard broker types after you create the cluster. [Learn more](#)

Express brokers - new Express brokers provide up to 3 times more throughput per broker, scale up to 20 times faster, and offer fully managed virtual storage capacity.

Standard brokers Typical brokers for all versions of Apache Kafka.

Broker size

The broker size determines the broker's compute, memory, and storage capacities.

express.m7g.large
1000 recommended max partition count
vCPU : 2 Memory (GiB): 8 Network bandwidth (Gbps): Up to 12.5

Storage

Cluster storage
MSK-managed

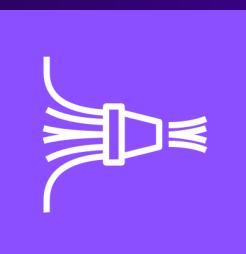


AWS News Blog Post



Database CDC with Amazon Data Firehose

CHANGE DATA CAPTURE (CDC) REPLICATION FROM MYSQL OR POSTGRESQL DATABASES
TO APACHE ICEBERG TABLES STORED ON AMAZON S3



PP

Nov, 15th

pre-re:Invent

All Regions

Amazon Data Firehose from now on supports MySQL and PostgreSQL relational databases as source, and Apache Iceberg tables (stored in Amazon S3 buckets and schema definition inside AWS Glue Data Catalog) as a destination for replicating change data capture streams with continuous schema evolution.

Create Firehose stream [Info](#)

▶ [Amazon Data Firehose: How it works](#)

Choose source and destination
Specify the source and the destination for your Firehose stream. You cannot change the source and destination of your Firehose stream once it has been created.

Source [Info](#)
PostgreSQL database

Destination [Info](#)
Apache Iceberg Tables

Apache Iceberg Tables

Apache Iceberg Tables

A high performance open-source format for performing big data analytics that brings the reliability and simplicity of SQL tables.

Firehose stream name
POSTGRESQL-ICE-S9niK

Acceptable characters are uppercase and lowercase letters, numbers, underscores, hyphens, and periods.

During *public preview*, there are no charges for your usage at the beginning of the preview. At some point in the future, it will be priced based on actual usage (e.g., bytes read and delivered).



[AWS News Blog Post](#)



Throughput increase for Amazon KDS

WRITING UP TO 10 GB/S FOR AMAZON KINESIS DATA STREAMS (KDS) ON-DEMAND MODE



GA

Nov, 20th

pre-re:Invent

3 Regions

Amazon Kinesis Data Streams
On-Demand Mode now automatically
scales to support streaming applications
that write up to 10 GB/s per stream and
consumers that read up to 20 GB/s per
stream.

This is a **5x increase** from the previously
supported limits.



[AWS Announcement](#)



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AI upgrades for Apache Spark in AWS Glue

REDUCE EFFORT REQUIRED TO UPGRADE SPARK APPLICATIONS FROM WEEKS TO MINUTES



AWS Glue supports (in preview) AI upgrades for Apache Spark from an older version of AWS Glue to 4.0, which reduces the time data engineers spend on modernizing their Spark applications, allowing them to focus on building valuable analytics faster.

PP

Nov, 22nd

pre-re:Invent

5 Regions

The screenshot shows the AWS Glue Studio interface under the 'Jobs' section. It displays three methods for creating jobs: Visual ETL (selected), Notebook, and Script editor. Below this, there's a 'Create example job' button. A section for 'Example jobs' is shown. The main area lists 'Your jobs (3)' with a search bar and filters (Job name: glue2). The table has columns for Job name, Type, Created by, and Last modified. An orange arrow points to a context menu for the job 'glue2-count'. The menu includes options like Edit job, Clone job, Schedule job, Delete job(s), Reset job bookmark, and 'Run upgrade analysis with AI - preview'.

Job name	Type	Created by	Last modified
glue2-migrate-demo	Glue ETL	Script	11/6/2024, 2:14:49 AM
glue2-migration	Glue ETL	Script	11/4/2024, 9:56:12 PM
glue2-count	Glue ETL	Script	11/1/2024, 12:51:39 AM



AWS Big Data Blog Post



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AWS Clean Rooms Updates

SUPPORT FOR MULTIPLE CLOUDS, DATA SOURCES, AND PRIVACY ENHANCED MODEL TRAINING AND INFERENCE



GA

Prior to re:Invent, AWS Clean Rooms ML received new capability called **custom modeling**, that enables companies and their partners on training and inferencing machine learning models on collective datasets without sharing sensitive data or proprietary models.

During AWS re:Invent, we have announced that from now you can connect data to AWS Clean Rooms also from Amazon Athena and Snowflake.

AWS Clean Rooms > Tables > Configure new table

Configure new table [Info](#)

Choose the data source and the data source type, then configure it for use in AWS Clean Rooms. After it is configured, you can associate it to multiple collaborations.

Data source [Info](#)

AWS data sources

- Amazon S3
Supported analytics engines
Spark, AWS Clean Rooms SQL
- Amazon Athena
Supported analytics engines
Spark

Third-party clouds and data sources

- Snowflake
Supported analytics engines
Spark

Data source credentials [Info](#)

To use the selected data source, you must first create an AWS Secrets Manager secret to store your credentials.

Use existing secret ARN
Enter an existing secret ARN to link to the selected data source.

Store a new secret for this table
Enter your credentials to link to the selected data source.

Secret ARN
Store your credentials in [AWS Secrets Manager](#) and enter your secret ARN or import your secret ARN from an existing table.

arn:aws:secretsmanager:us-east-1:2
Character count: 84 of 256

[Go to AWS Secrets Manager](#) [Import secret ARN from existing table](#)

Nov, 7th

Dec, 1st

pre-re:Invent

re:Invent

All Regions



[AWS News Blog Post](#)



Next generation of Amazon SageMaker

CENTER FOR ALL YOUR DATA, ANALYTICS, AI, AND GOVERNANCE - VIA UNIFIED STUDIO



PP

Dec, 3rd

re:Invent

5 Regions

The screenshot shows the Amazon SageMaker Unified Studio interface. At the top, there are navigation tabs: Preview (selected), Discover, Build, and Govern. A central header says "Select a project" with a dropdown arrow. On the right, there are icons for Help, Logout, and Search. Below the header, a greeting "Good morning, Wojtek" is displayed. The interface is divided into three main sections: Discover, Build, and Governance.

- Discover:** Contains three cards: "Data catalog" (Find and access data assets and ML models.), "Generative AI playground" (Experiment with chat, image, and video models.), and "Shared generative AI assets" (Explore apps and prompts shared with you.).
- Build:** Contains four cards:
 - "ML and generative AI model development" (Build, train, and deploy ML and foundation models with fully managed infrastructure, tools, and workflows.) with a "Create notebook" button.
 - "Generative AI app development" (Build generative AI apps and experiment with foundation models, prompts, agents, functions, and guardrails in Amazon Bedrock IDE.) with a "Build chat agent" button.
 - "Data processing and SQL analytics" (Analyze, prepare, and integrate data for analytics and AI using Amazon Athena, Amazon EMR, AWS Glue, and Amazon Redshift.) with a "Create SQL query" button.
 - "Data and AI governance" (Publish your data products to the catalog with glossaries and metadata forms. Govern access securely in the Amazon SageMaker Catalog built on Amazon DataZone.) with a "Publish data" button.
- Governance:** Contains two cards:
 - "Data catalog" (Find and access data assets and ML models.) with a "Create notebook" button.
 - "Generative AI playground" (Experiment with chat, image, and video models.) with a "Build chat agent" button.

In the bottom right corner of the studio interface, there is a yellow button labeled "Browse all projects" and a green button labeled "Create project".



[AWS News Blog Post](#)



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Amazon SageMaker Lakehouse

UNIFIED, OPEN, AND SECURE DATA LAKEHOUSE ACROSS AMAZON S3 AND AMAZON REDSHIFT



GA

Dec, 3rd

re:Invent

14 Regions

The screenshot shows the Amazon SageMaker Query Editor interface. On the left, there's a sidebar with 'Discover', 'Build', and 'Govern' tabs, and sections for 'Data explorer', 'Redshift', and 'S3'. The main area has a breadcrumb path: Home > Projects > sql-analytics-project > Query Editor. A central panel titled 'Untitled 1' contains three code snippets:

- Snippet 1:

```
1 create schema "dev@test-rms-catalog".salesdb;
```
- Snippet 2:

```
1 CREATE TABLE salesdb.store_sales ( sale_id INTEGER IDENTITY(1,1) PRIMARY KEY,
```
- Snippet 3:

```
1 INSERT INTO salesdb.store_sales (customer_sk, sale_date, sale_amount, product_name, last_purchase_date) VALUES (13251813, '2023-01-15', 150.00, 'Widget A', '2023-01-15'), (29033279, '2023-01-
```

To the right of the code snippets are three panels: 'CONNECTIONS (3)', 'DATABASES (3)', and 'SCHEMAS (1)'. The 'CONNECTIONS' panel lists 'Athena (Lakehouse)', 'Redshift (Lakehouse)', and 'Redshift (project.redshift)'. The 'DATABASES' panel lists 'dev', 'awsdatacatalog', and 'dev@test-rms-catalog-654654...'. The 'SCHEMAS' panel lists 'public'. A modal dialog is open over the schemas panel, with 'Choose' highlighted.



AWS News Blog Post



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AWS Glue 5.0

SUPPORT FOR AMAZON SAGEMAKER UNIFIED STUDIO, LAKEHOUSE, AND SPARK 3.5.2



GA

In this version of AWS Glue you will get improved performance, enhanced security, support for Amazon Sagemaker Unified Studio, Amazon SageMaker Lakehouse, and following runtime and dependencies updates:

- Apache Spark 3.5.2
- Python 3.11
- Java 17
- Apache Hudi 0.15.0
- Apache Iceberg 1.6.1
- Delta Lake 3.2.0

The screenshot shows the AWS Glue Job details page for a job named "TestJobFor5.0". The page has tabs for Script, Job details, Runs, Data quality, Schedules, and Version Control. The Job details tab is selected. The "Basic properties" section includes fields for Name (TestJobFor5.0), Description (optional), IAM Role (Choose one IAM role), Type (Spark), Glue version (Glue 5.0 - Supports spark 3.5, Scala 2, Python 3), and Language (Python 3). The left sidebar lists various AWS Glue features and links.

Dec, 3rd
re:Invent
14 Regions

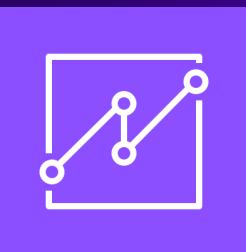


AWS Announcement



Scenario analysis in QuickSight with Q

AI-ASSISTED DATA ANALYSIS EXPERIENCE THAT HELPS YOU MAKE BETTER DECISIONS, FASTER



PP

Dec, 4th
re:Invent
2 Regions

Amazon Q in QuickSight received a new capability, that helps users perform scenario analyses to find answers to complex problems quickly.

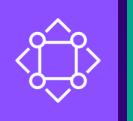
This AI-assisted data analysis experience helps business users find answers to complex problems by guiding them step-by-step through in-depth data analysis - suggesting analytical approaches, automatically analyzing data, and summarizing findings with suggested actions – all of the above using natural language prompts.

Campaign_ID	Sales	Quantity	Profit	Number_of_Orders
GC22	273	39	35.33	6
VEG903	232	29	29	5
BB120	162	29	14.78	9
GC11	161	23	37.38	4
GRA27	150	30	10.91	11
BB121	124	23	34.57	3
GRA24	120	24	8	12
GC33	112	16	53.4	2



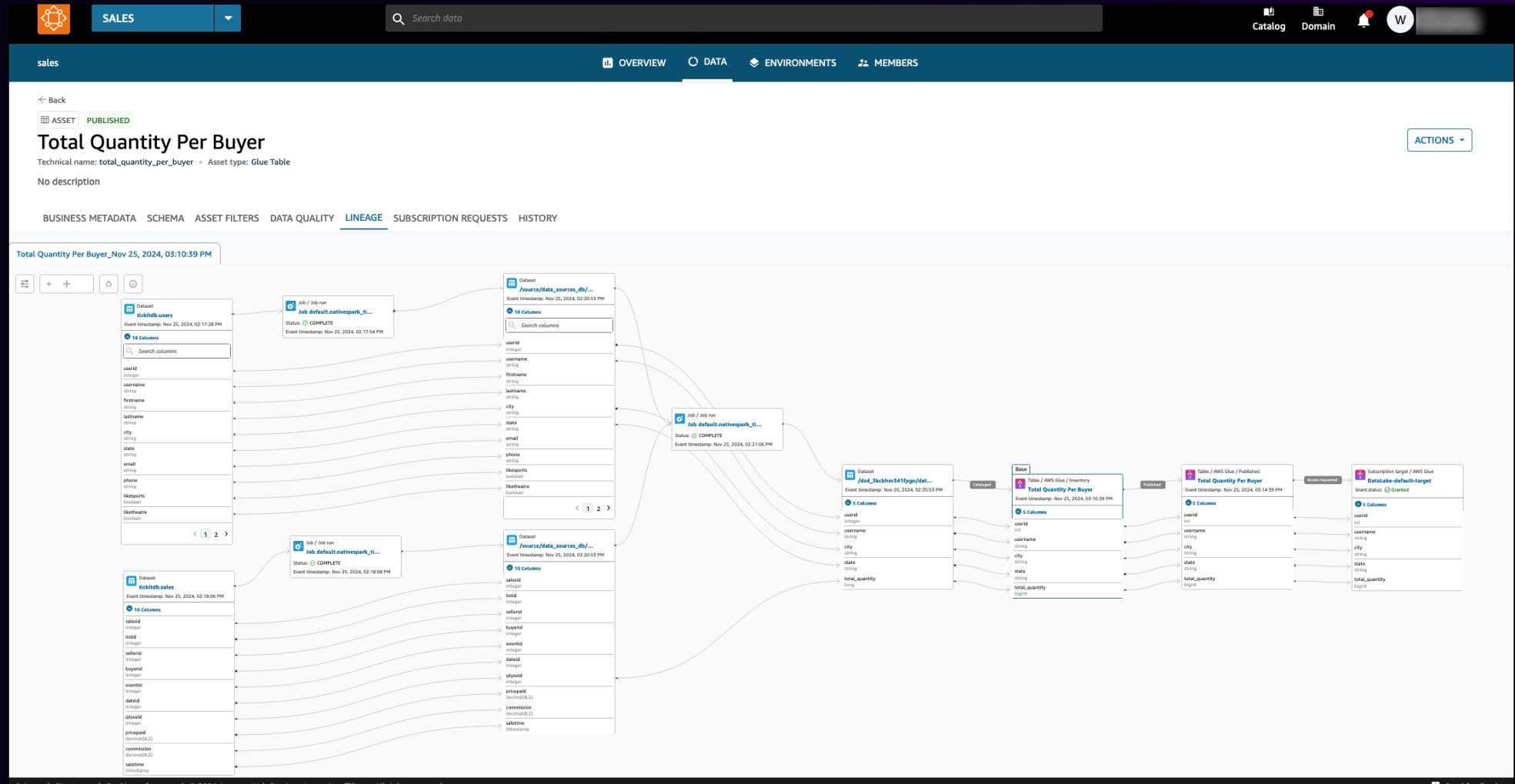
AWS News Blog Post





Data Lineage tracking across AWS tools

TRACK DATA LINEAGE WITH AMAZON DATAZONE AND AMAZON SAGEMAKER UNIFIED STUDIO



GA

Dec, 4th

re:Invent

All Regions

Open Source



AWS News Blog Post



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Other Announcements (1/2)



1. **Amazon QuickSight updates:**
 - a) [Image component](#) (pre-re:Invent)
 - b) [Highcharts visual](#) (pre-re:Invent, PP)
 - c) [Import visual capability from an existing dashboard or analysis](#) (pre-re:Invent, PP)
 - d) [Layer Map component](#) (pre-re:Invent)
 - e) [Amazon Q in QuickSight unifies insights from structured and unstructured data](#) (re:Invent)
2. [Amazon DataZone expands access with tools like Tableau, Power BI, and via JDBC driver](#) (pre-re:Invent)
3. [Smaller environment size for Amazon MWAA](#) (pre-re:Invent)
4. **Other AWS Glue updates:**
 - a) [Scheduled generation of column level statistics in AWS Glue Data Catalog](#) (pre-re:Invent)
 - b) [Automatic Apache Iceberg tables optimization through Amazon VPC in AWS Glue Data Catalog](#) (pre-re:Invent)
 - c) [Automation statistics generation for new tables in AWS Glue Data Catalog](#) (re:Invent)
 - d) [Amazon S3 Access Grants now integrate with AWS Glue](#) (re:Invent)
 - e) [Expanded data connectivity for Amazon SageMaker Lakehouse and AWS Glue](#) (re:Invent)
5. **Amazon Managed Service for Apache Flink (MSF) updates:**
 - a) [Generating vector embeddings from Amazon MSK with Amazon Bedrock](#) (pre-re:Invent)
 - b) [Adding support for Amazon DynamoDB Streams as a source](#) (pre-re:Invent)
 - c) [Adding support for Amazon Managed Service for Prometheus as destination](#) (pre-re:Invent)

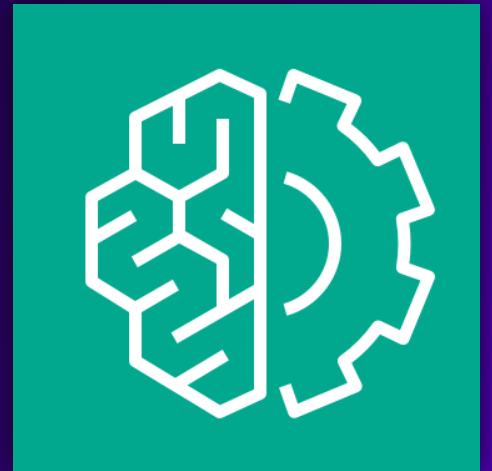
Other Announcements (2/2)



6. **Amazon Redshift Query Editor** updates:
 - a) [Amazon Q generative SQL is now available in additional regions](#) (pre-re:Invent)
 - b) [Increasing maximum result set and export size to 100 MB](#) (pre-re:Invent)
7. [Advanced Scaling in Amazon EMR Managed Scaling](#) (pre-re:Invent)
8. [AWS Lambda custom data transformation in Amazon OpenSearch Ingestion](#) (pre-re:Invent)
9. [Amazon DynamoDB zero-ETL integration with Amazon SageMaker Lakehouse](#) (re:Invent)

Machine Learning, AI, and Generative AI

46 announcements (17 *pre-re:Invent*)



Prompt Optimization in Amazon Bedrock

REWRITING PROMPTS FOR HIGHER QUALITY RESPONSES FROM FOUNDATIONAL MODELS



PP

Nov, 21st

pre-re:Invent

All Regions
Limited Models

The screenshot shows the Amazon Bedrock Prompt builder interface. In the center, a modal window titled "Optimize as a new variant" is open, displaying the message: "Amazon Bedrock will create a new variant so that you can evaluate the original prompt against the optimized one. At this time, only English language prompts are supported." Below this, there are three sliders: "Top K" set to 250, "Length" set to 2000, and "Stop sequences". To the right of the modal, the "Test window" shows a sample prompt: "Please summarize the announcement provided below for the slide deck notes:" followed by the announcement text. At the bottom of the test window, there is a "Run" button.



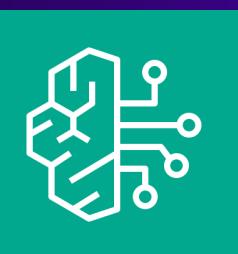
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AWS Announcement

Amazon Bedrock Flows

GENERAL AVAILABILITY OF PREVIOUSLY KNOWN AS PROMPT FLOWS WITH 2 NEW CAPABILITIES



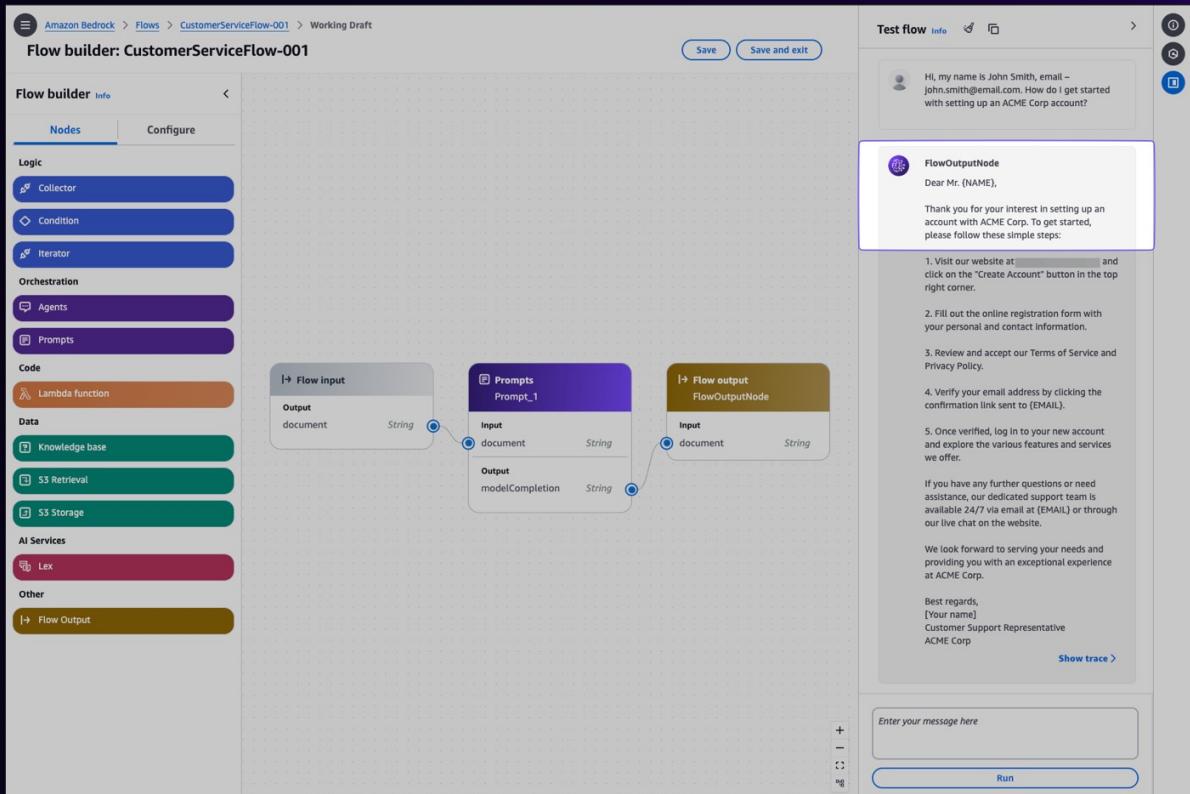
GA

Visual builder in Amazon Bedrock, previously known as Amazon Bedrock Prompt Flows, received an updated name:

Amazon Bedrock Flows

and two new capabilities:

- 1. Enhanced Security** by adding Amazon Bedrock Guardrails to specific nodes.
- 2. Enhanced Traceability** with validation and debugging capabilities.



Nov, 22nd

pre-re:Invent

All Regions



[AWS ML Blog Post](#)



Scale Down to Zero for Amazon SageMaker

NEW CAPABILITY OF SAGEMAKER INFERENCE THAT ALLOWS TO SCALE DOWN DURING INACTIVITY



GA

Nov, 25th

pre-re:Invent

All Regions

Amazon SageMaker Inference that allows endpoints to scale to zero instances during periods of inactivity.

This feature can significantly reduce costs for running inference using AI models, making it particularly beneficial for applications with variable traffic patterns such as chatbots, content moderation systems, and other generative AI use cases.



[AWS Announcement](#)



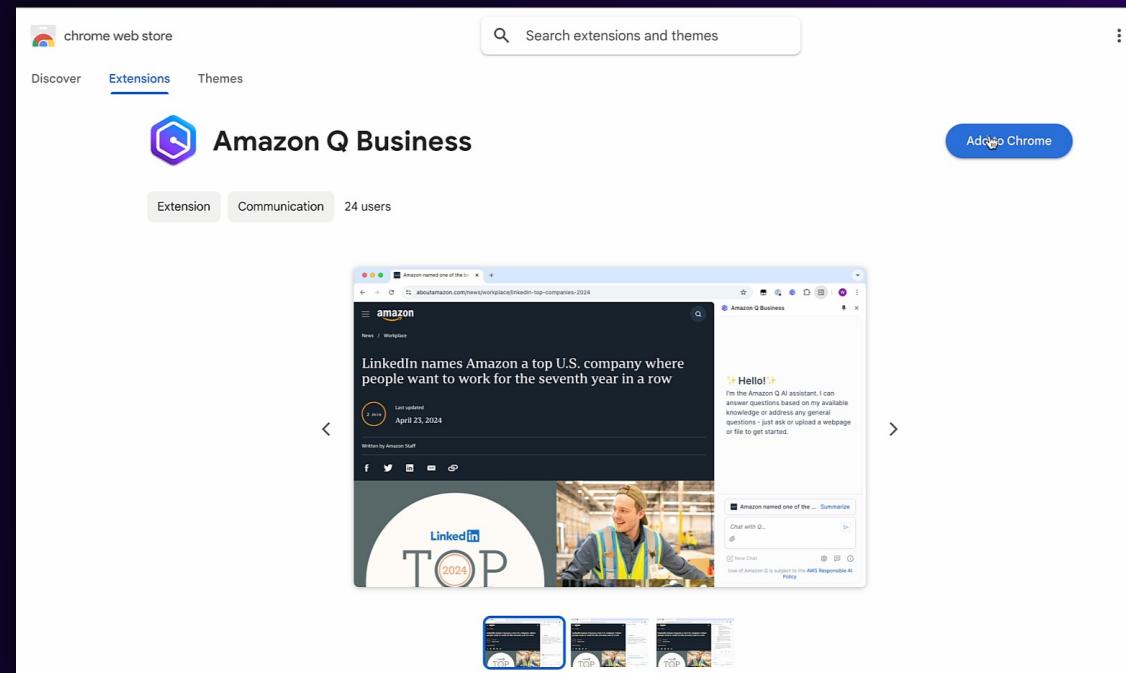
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Amazon Q Business at pre-re:Invent

BROWSER EXTENSION, PRIVATE SHARING FOR Q APPS, CONNECTORS AND INTEGRATIONS

Period of pre-re:Invent was also really busy for the Amazon Q Business service team, as they announced 9 different announcements.

They were mostly around new connectors and integrations, releasing browser extension, private sharing in Q Apps, data collection in Q Apps (preview), and user experience (UX) improvements in terms of reusing files and context in the conversations, and analyzing multi-modal data like tables and visual documents.



GA

PP

Nov, 2024

pre-re:Invent

All Regions

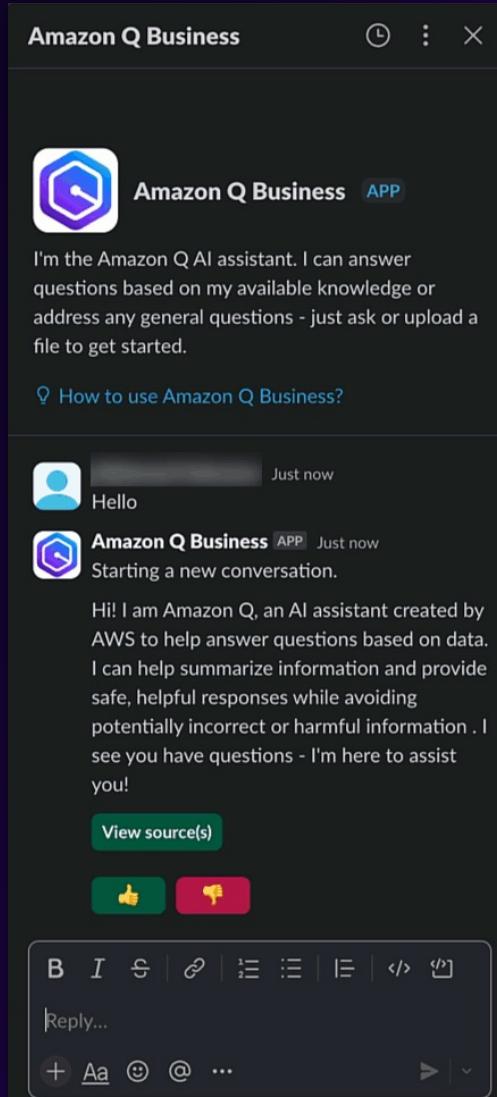
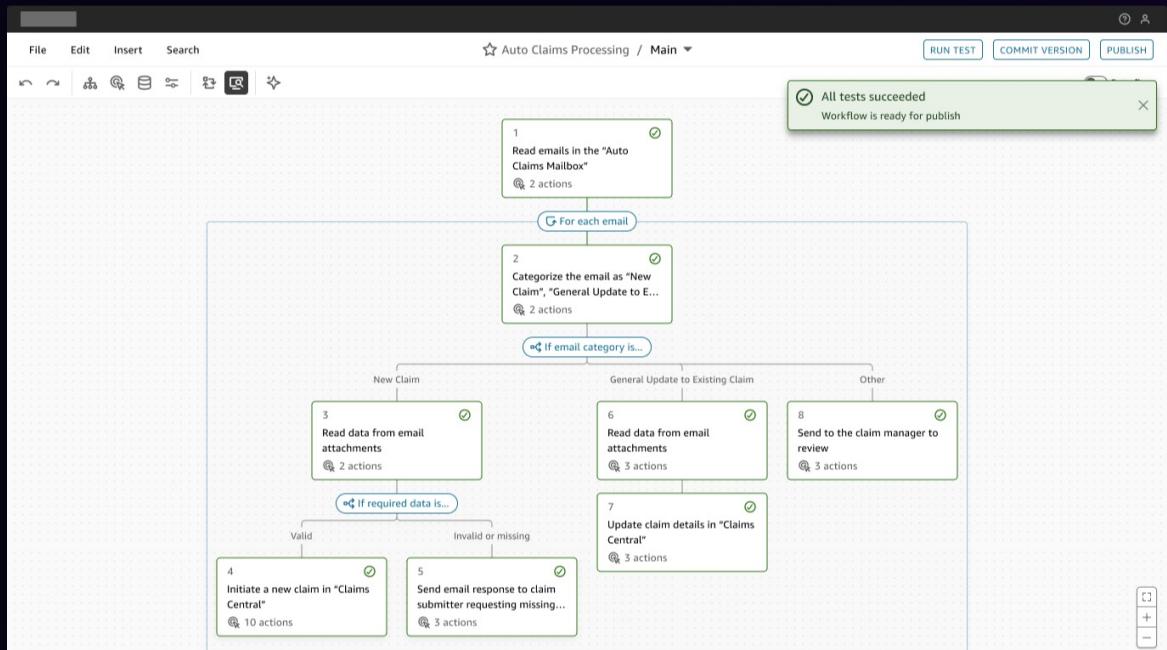
Amazon Q Business at re:Invent

50+ ACTION INTEGRATIONS, TOOLS, WORKFLOW AUTOMATION, AMAZON Q INDEX



However, service team did not stop there! Throughout the re:Invent they've announced 4 additional capabilities

Starting from adding 50+ actions, through integrations with tools, **workflow automation capability (coming soon)**, and ability to use Q Index by Independent Software Vendor (ISV) partners for driving future integrations and new use cases.



GA

CS

Dec, 1st
Dec, 2nd
Dec, 3rd

re:Invent

All Regions



AWS News Blog Post



Other updates for Amazon Bedrock

RAG EVALUATION, LLM-AS-A-JUDGE, RERANKING API, CUSTOM CONNECTORS AND STREAMING



GA

PP

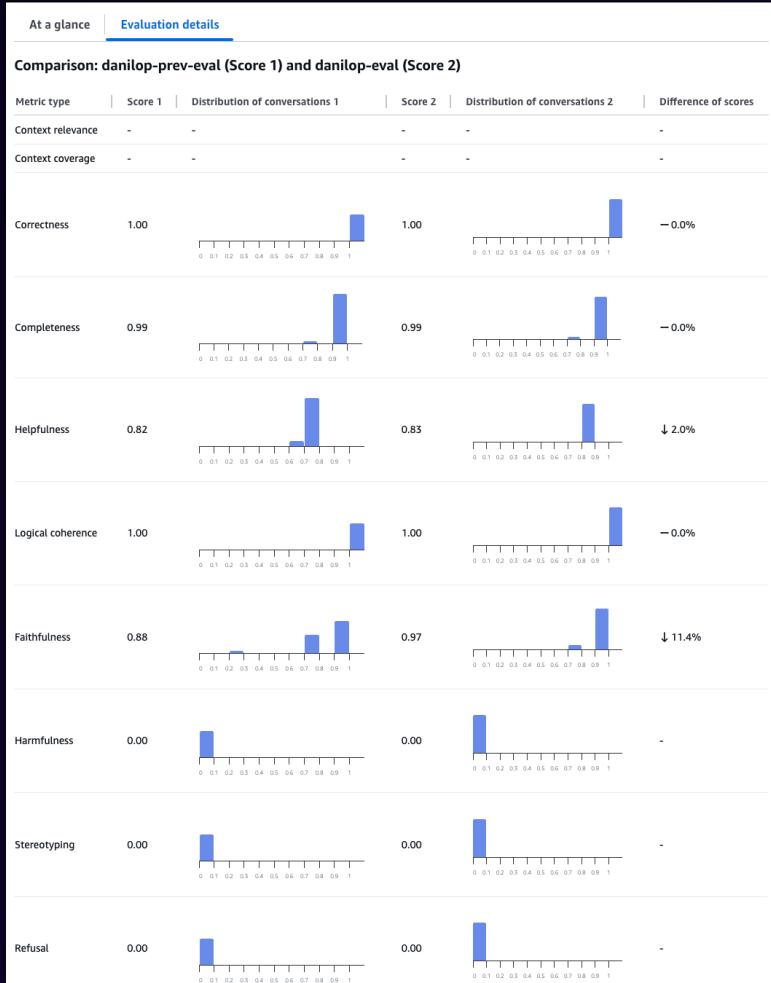
Dec, 1st

re:Invent

All Regions

With the plethora of updates for Amazon Bedrock announced in two keynotes, there are a few others announced during re:Invent that are worth your attention:

- Support for **custom connectors** and **ingestion of streaming data** in Amazon Bedrock Knowledge Bases.
- Support for **reranking models** for Bedrock Knowledge Bases.
- Bedrock Knowledge Bases now supports **RAG evaluation (preview)**.
- Bedrock Model Evaluation now includes **LLM-as-a-judge (preview)**.

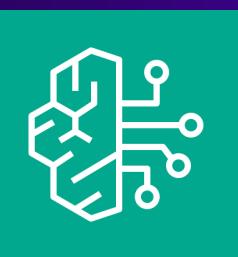


AWS News Blog Post



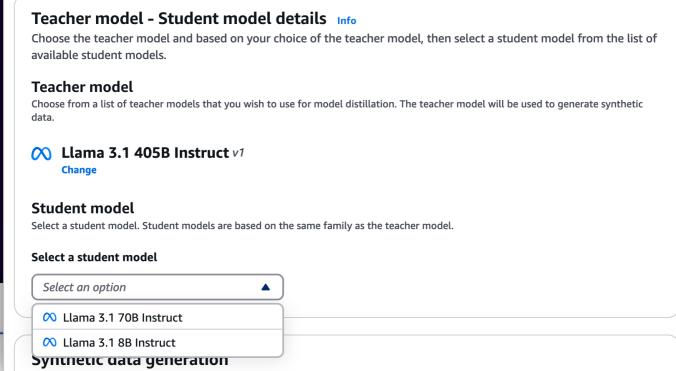
Amazon Bedrock Model Distillation

FINE-TUNING SMALLER MODEL FROM LARGER MODEL WITH DATA SYNTHESIS

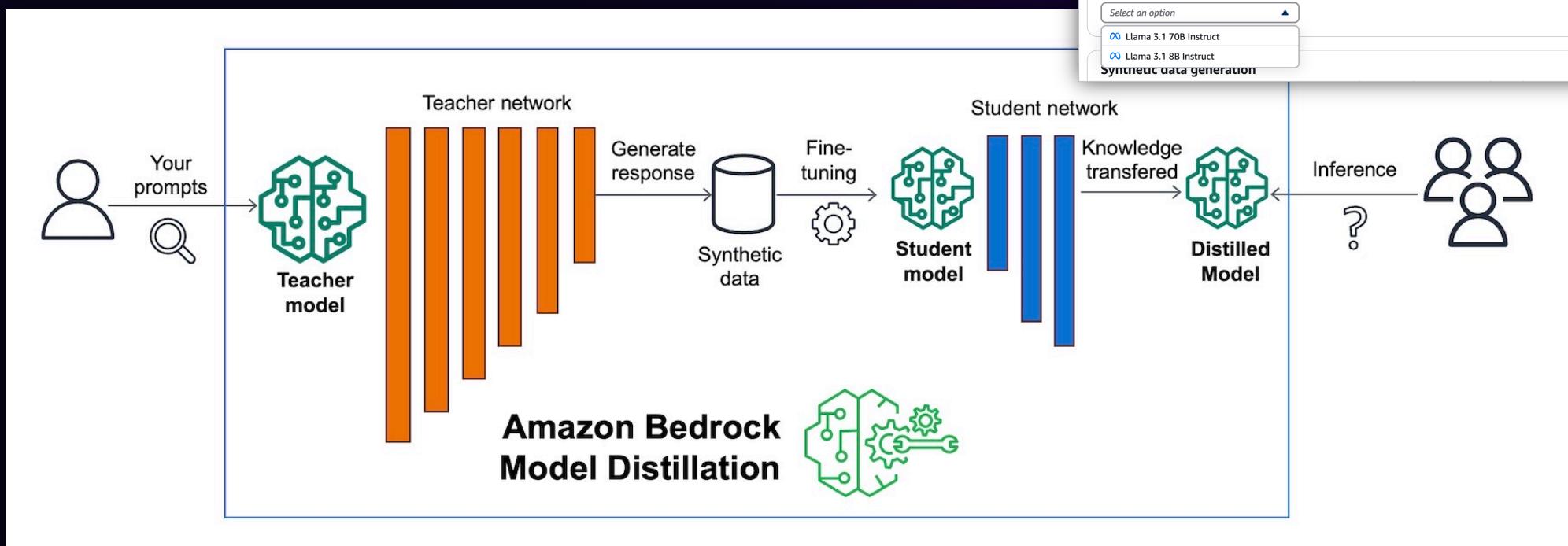


PP

Dec, 3rd
re:Invent
2 Regions



Amazon Bedrock Model Distillation is a capability, that automates the process of creating a distilled model for your specific use case by generating responses from a large foundation model (a teacher) model and fine-tunes a smaller FM (a student model) with the generated responses via data synthesis.



AWS News Blog Post



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Automated Reasoning in Bedrock Guardrails

EMPLOY SOUND MATHEMATICAL TECHNIQUES TO SAFEGUARD AMAZON BEDROCK GUARDRAILS



PP

Dec, 3rd
re:Invent
2 Regions

AWS becomes the first and only major cloud provider to integrate **automated reasoning** in our generative AI offerings.

Automated Reasoning checks in Amazon Bedrock Guardrails are the first and only generative AI safeguard that helps prevent factual errors due to hallucinations using logically accurate and verifiable reasoning that explains why generative AI responses are correct.

Definitions Test playground Details

Rules (6)

Rule	Updates	Actions
A name change is allowed if and only if changes are allowed and the submission is valid.	-	⋮
A submission is valid if and only if the submission method is email.	-	⋮
Change is allowed if and only if the airline allows it and the time limit is met.	-	⋮
Name correction is allowed if and only if changes are allowed and the submission is valid.	-	⋮
The airline is allowed if and only if the allowed airlines are either Unicorn Airlines or Cloud Nine Air.	-	⋮
The time limit is met if and only if the hours since purchase is less than or equal to 24.	-	⋮

Variables (8)

Name	Type	Description	Updates	Actions
allowed_airlines	Enumeration	The airlines that allow changes under the Soar Customer Firs...	-	⋮
allowed_changes	Enumeration	The types of changes and corrections allowed under the policy.	-	⋮
change_method	Enumeration	The method by which name changes or corrections must be s...	-	⋮
change_time_limit	Integer	The time limit within which changes must be made	-	⋮
hours_since_purchase	Integer	The time limit within which name changes or corrections mu...	-	⋮
name_change_allowed	Boolean	The process of changing a passenger's name on a ticket	-	⋮
name_correction_allowed	Boolean	The process of correcting a misspelled name on a ticket	-	⋮
submission_method	Enumeration	The required method for submitting change requests	-	⋮



AWS News Blog Post



Multi-agent collaboration in Bedrock

MULTIPLE AI AGENTS WORKING TOGETHER ON A COMPLEX MULTI-STEP TASKS



PP

Dec, 3rd
re:Invent
3 Regions

When you need to handle a complex task, there is often a need to use more than just one agent. You can create multiple specialized ones – however, managing, coordination, memory and session handling are tedious.

That's why Amazon Bedrock offers multi-agent collaboration capability, which addresses all of the above challenges in a fully-managed way.

The screenshot shows the Amazon Bedrock interface. At the top, it says "Test" and "TestAlias: Working draft". Below that, a message reads: "Create a 2-week social campaign for EcoTech's new solar panel launch. Target: B2B (facility managers, sustainability directors) Key points: 30% more efficient, AI-optimized, 2-year ROI Need: 4 posts/week on LinkedIn/Twitter (40% educational, 30% product, 30% thought leadership)." In the bottom left, there's a text input field with "Enter your message here". On the right, a section titled "Multi-agent collaboration trace timeline" is highlighted with a red box. It explains: "For agents with Multi-agent collaboration enabled, each subsequently invoked Agent collaborator is displayed. Each bar within the trace timeline can be clicked to show the specific breakdown for that Agent collaborator." It shows a timeline with three bars: "(1)social-media-campaign-manager" (49.32s), "(1.1)content-strategist" (13.21s), and "(1.2)engagement-predictor" (10.20s). Below the timeline, it says "Time (... 0.00s 5.00s 10.00s 15.00s 20.00s 25.00s 30.00s 35.00s 40.00s)". Further down, there are tabs for "Trace" (which is selected) and "Session summaries". Under "Trace (10)", it shows "Request ID 77bb826a-73f4-482b-a55a-572d6a9fb518" with a "Copy all" button. Below that, there are tabs for "Trace", "Orchestration and Knowledge Base" (which is selected), and "P >". Under "Orchestration and Knowledge Base", it says: "After running a prompt in the test window, this orchestration trace allows you to explore the trace steps to understand the linear chain of thought used by the agent's orchestration prompt component. If a knowledge base was invoked, the trace also allows you to see how the results from the knowledge base were summarized to generate an observation that is used for orchestrating the next step or generating the response."



AWS News Blog Post



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Amazon Bedrock Marketplace

ACCESS OVER 100 FOUNDATION MODELS IN ONE PLACE



GA

Amazon Bedrock Marketplace is a new capability that gives you access to over 100 popular, emerging, and specialized foundation models (FMs) through Amazon Bedrock.

A screenshot of the Amazon Bedrock Model catalog interface. The top navigation bar includes the AWS logo, Services, a search bar, and user information. The main area shows a "Model catalog (137)" with a "Spotlight" section featuring "Most popular" models. The models listed are: Claude 3.5 Sonnet, Claude 3 Sonnet, Claude 3 Haiku, Claude, Claude Instant, and Titan Embeddings G1 - ... (partially visible). Each model card includes an AI icon, the model name, an "Access granted" status, a brief description, and a "Serverless" badge. On the left, there are filters for "HuggingFace", "IBM Data and AI", "John Snow Labs", "Karakuri, Inc.", "LG CNS", "Liquidai", "Meta", "NCSoft", "NVIDIA", "Preferred Networks, Inc.", "Stability AI", "Upstage", "Widn.AI", and "Writer". There are also sections for "Modality" (Audio, Embedding, Text, Text Vision) and "Marketplace deployments" (0).

Dec, 4th

re:Invent

14 Regions



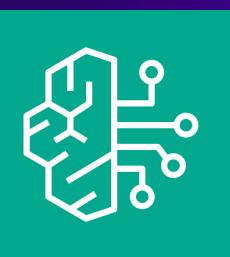
AWS News Blog Post



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Amazon Nova: New Foundation Models

FRONTIER INTELLIGENCE AND INDUSTRY LEADING PRICE PERFORMANCE



GA

Dec, 3rd

re:Invent

3 Regions

The image shows a man standing on a stage, speaking to an audience. Behind him is a large screen displaying information about the Amazon Nova family of foundation models. The screen has a blue gradient background and features the following text and sections:

- Amazon Nova**
- State-of-the-art foundation models that deliver frontier intelligence and industry-leading price performance**
- Amazon Nova Micro**
Text only model that delivers the lowest latency responses at very low cost
GENERALLY AVAILABLE
- Amazon Nova Lite**
Very low-cost multimodal model that is lightning-fast for processing image, video, and text inputs
GENERALLY AVAILABLE
- Amazon Nova Pro**
Highly capable multimodal model with the best combination of accuracy, speed, and cost for a wide range of tasks
GENERALLY AVAILABLE
- Amazon Nova Premier**
Most capable multimodal model for complex reasoning tasks and for use as the best teacher for distilling custom models
COMING SOON



AWS News Blog Post



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Prompt routing and caching in Bedrock

PROMPT IMPROVEMENTS WITH INTELLIGENT ROUTING AND CACHING

Amazon Bedrock has introduced in preview two capabilities that help reduce costs and latency for generative AI applications: **intelligent prompt routing** within the same foundation model family and **prompt caching** that allows for reuse of frequently used context across model invocations.

Prompt Routers Info

Efficiently routes requests between different foundational models from the same model family, optimizing for quality of responses and cost.

▼ How it works

Experiment with default routers



You can choose from two prompt routers that route requests between either Claude Sonnet 3.5 and Claude Haiku, or between Llama 3.1 70B and Llama 3.1 8B. Choose a prompt router to get started.

Use for production



You can save months of effort on testing different models and creating complex orchestration workflows. Use the Invoke and Converse API operations to incorporate routers into your generative AI applications.

Default routers (1/2)

Bedrock offers pre-configured prompt routers for different model providers.

Anthropic Prompt Router 

Meta Prompt Router

Anthropic Prompt Router

Routing models
Claude 3 Haiku, Claude 3.5 Sonnet

Routing criteria
Response quality difference: 0%

Meta Prompt Router

Routing models
Llama 3.1 8B Instruct, Llama 3.1 70B Instruct

Routing criteria
Response quality difference: 0%

Open in playground



PP

Dec, 4th
re:Invent

2 Regions
Limited Models



AWS News Blog Post



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Enhance processing and retrieval in Bedrock

STRUCTURED RETRIEVAL, GRAPHRAG, DATA AUTOMATION, AND MULTIMODAL KNOWLEDGE BASES

During Dr. Sivasubramanian's keynote, we have announced four enhancements to Amazon Bedrock that streamlines how you can analyze data within this service:

1. Amazon Bedrock Data Automation (*preview*) for fully managed insights generation from multimodal content.
2. Amazon Bedrock Knowledge Bases now processes multimodal data with either Bedrock Data Automation or another foundation model (FM) as a parser.
3. Amazon Bedrock Knowledge Bases now supports GraphRAG (*preview*) powered by Amazon Neptune Analytics.
4. Amazon Bedrock Knowledge Bases now supports structured data retrieval, that translates natural language to SQL and reaches out directly to data warehouses and data lakes.

The screenshot shows the Amazon Bedrock interface. At the top, there is a "Result Info" section with a "How to use demo" link. Below it is a "Document preview" section showing a sample birth certificate from San Francisco, California. To the right of the document preview are configuration options for "Standard output" and "Custom output". Under "Configuration", there are sections for "Modality detected" (set to "Document"), "Granularity" (set to "Page level"), "Text Format" (with "Plain Text" selected), "Bounding boxes" (with "Enable" checked), "Output Format" (set to "JSON"), and "Generate Fields" (with "Enable" checked). In the "Results" section, the "Element level" tab is selected, displaying four text elements with confidence scores: "TEXT 1" (98%), "TEXT 2" (98%), "TEXT 3" (98%), and "TEXT 4" (98%). Each text element includes its raw text and a "Text with markdown" representation. At the bottom of the interface, there is a "Choose a new file" button and a note: "Select sample demo or upload a file to get started".



GA

PP

Dec, 4th
re:Invent

All Regions
1 Region



AWS News Blog Post



Multimodal toxicity detection in Guardrails

WITH IMAGE SUPPORT AND INDEPENDENT API

This new capability in Amazon Bedrock Guardrails detects and filters out undesirable image content in addition to text.

In addition to multimodality, Amazon Bedrock receives an update in the form of the independent API `ApplyGuardrail` which allows for evaluation of any inputs and outputs without invoking foundation models on Amazon Bedrock.

It means that you can apply guardrails, also for models hosted on Amazon SageMaker or regardless the underlying infrastructure.

The screenshot shows the Amazon Bedrock Guardrails interface for a "multimodal-toxicity-demo" model. On the left, under "Test", there's a "Prompt" section with the text "Describe this image." and a "View files (1)" button. Below it is a "Model response" section with a single dash. To the right, a "Guardrail trace" panel is open, showing a table with three columns: "Category", "Test result", and "Details". The "Category" row contains "Content filters". The "Test result" row shows a yellow warning icon followed by "Blocked". The "Details" row shows "Detected Insults", "Strength: High", and "Confidence: High". A red arrow points from the "View files (1)" button to the "Guardrail trace" panel. Another red arrow points from the "Guardrail action" section to the "View trace" button. The "Guardrail action" section shows a yellow warning icon and "Intervened (1 instances)".



PP

Dec, 4th

re:Invent

10 Regions



AWS News Blog Post



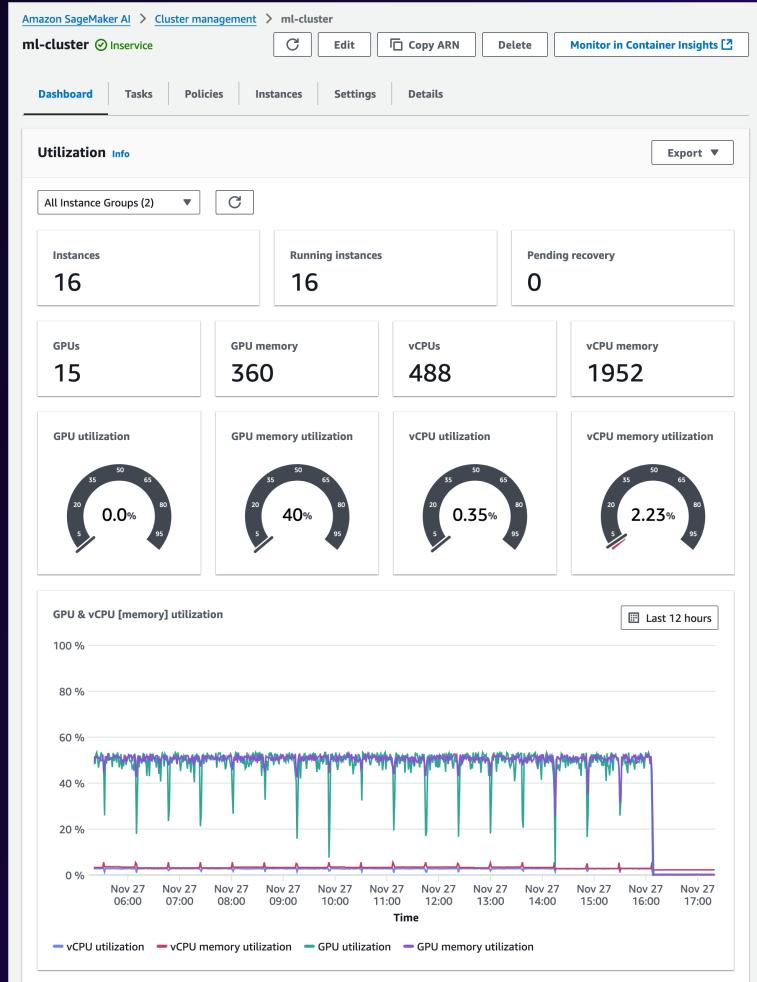
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Updates for Amazon SageMaker HyperPod

FLEXIBLE TRAINING PLANS, TASK GOVERNANCE, AND RECIPES

This year, based on customer feedback, Amazon SageMaker HyperPod received 3 important updates:

1. **Flexible Training Plans**, to help data scientists train large foundation models (FMs) within their timelines and budgets and save them weeks of effort in managing the training process based on compute availability.
2. **Task Governance**, a new innovation to easily and centrally manage and maximize GPU and AWS Trainium utilization across generative AI model development tasks, such as training, fine-tuning, and inference.
3. **Recipes**, help data scientists and developers of all skill sets to get started training and fine-tuning foundation models in minutes with state-of-the-art performance.



GA

Dec, 4th

re:Invent

3 Regions
Limited Instances

12 Regions

All Regions



AWS News Blog Post



Other Announcements



1. [**Fine-tuning Anthropic's Claude 3 Haiku in Amazon Bedrock** \(pre-re:Invent\)](#)
2. [**Binary vector embeddings in Amazon Bedrock Knowledge Bases and Amazon Titan Text Embeddings** \(pre-re:Invent\)](#)
3. [**Amazon Polly updates:**](#)
 - a) [**Six new synthetic generative voices \(English, French, Spanish, German\)** \(pre-re:Invent\)](#)
 - b) [**More synthetic generative voices \(English, French, Spanish, German, Italian\)** \(pre-re:Invent\)](#)
4. [**New AWS AI Service Cards for advancing responsible generative AI** \(re:Invent\)](#)
5. [**Amazon SageMaker Partner AI Apps** \(re:Invent\)](#)
6. [**Announcing GenAI Index in Amazon Kendra** \(re:Invent\)](#)
7. [**39 new or updated datasets available on the Registry of Open Data on AWS** \(re:Invent\)](#)

App Integration and Serverless

12 announcements (*12 pre-re:Invent*)



AWS AppSync Events

SERVERLESS WEB SOCKET API TO POWER REAL-TIME WEB AND MOBILE EXPERIENCES AT SCALE



GA

Oct, 30th

pre-re:Invent

All Regions

What is AWS AppSync Events?

PDF

AWS AppSync Events lets you create secure and performant serverless WebSocket APIs that can broadcast real-time event data to millions of subscribers, without you having to manage connections or resource scaling. With AWS AppSync Events, there is no API code required to get started, so you can create production-ready real-time web and mobile experiences in minutes.

AWS AppSync Events further simplifies the management and scaling of real-time applications by shifting tasks like message transformation and broadcast, publish and subscribe authentication, and the creation of logs and metrics to AWS, while delivering reduced time to market, low latency, enhanced security, and lower total costs.

With Event APIs, you can enable the following network communication types.

- Unicast
- Multicast
- Broadcast
- Batch publishing and messaging

This allows you to build the following types of interactive and collaborative experiences.

- Live chat and messaging
- Sports and score updates
- Real-time in-app alerts and notifications
- Live commenting and activity feeds

AWS AppSync Events simplifies real-time application development by providing the following features.

- Automatic management of WebSocket connections and scaling
- Built-in support for broadcasting events to large numbers of subscribers
- Flexible event filtering and transformation capabilities
- Fine-grained authentication and authorization
- Seamless integration with other AWS services and external systems for event-driven architectures



[AWS FEWAM Blog Post](#)



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Amazon EventBridge Latency Reduction

94% END-TO-END LATENCY IMPROVEMENT FOR EVENT BUSES AT NO ADDITIONAL COST



GA

Nov, 12th

pre-re:Invent

All Regions

Amazon EventBridge Event Buses announces up to **94% improvement** in end-to-end latency for Event Buses, enabling you to handle highly latency sensitive applications.

You can now detect and respond to critical events more quickly, enabling rapid innovation, faster decision-making, and improved operational efficiency.



[AWS Announcement](#)



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AWS Lambda SnapStart for .NET and Python

REDUCE COLD-STARTS FOR .NET CORE AND PYTHON SERVERLESS APPLICATIONS



A

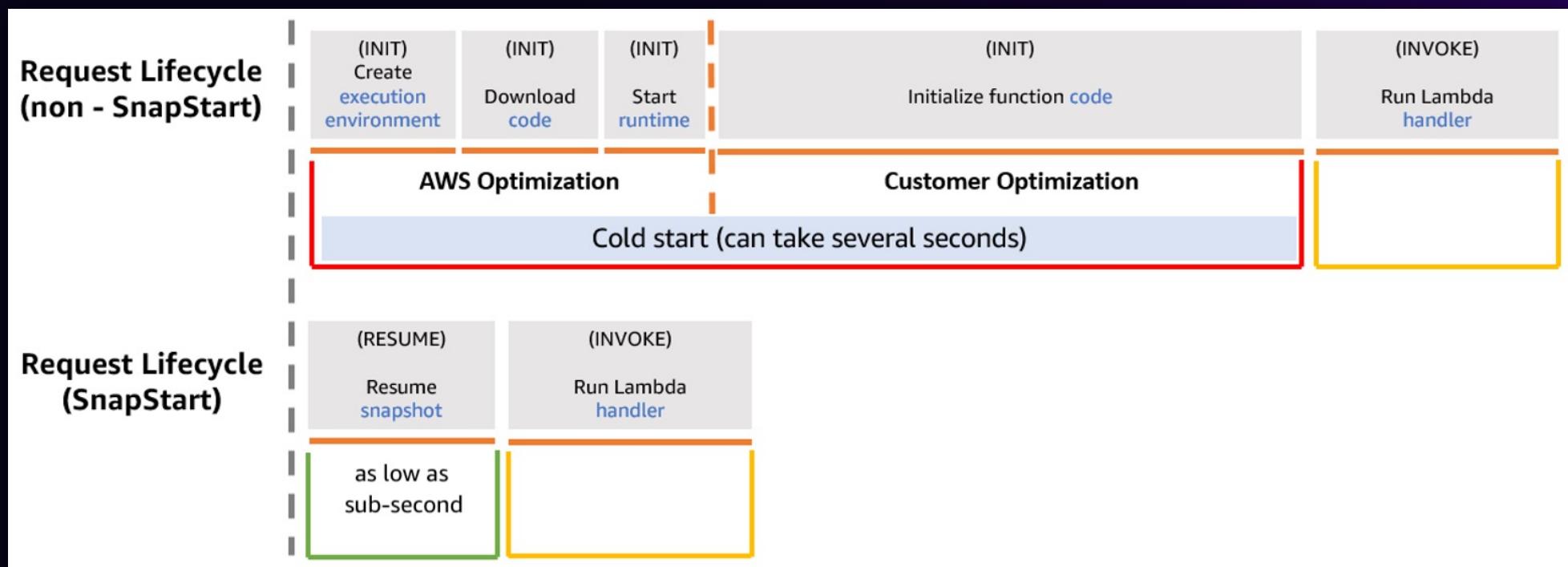
GA

Nov, 18th

pre-re:Invent

9 Regions

In addition to Java, from now you can use AWS Lambda SnapStart with your functions that use the **Python** and **.NET** managed runtimes, to deliver as low as sub-second startup performance.



[AWS News Blog Post](#)



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Event Source Mappings CloudWatch Metrics



INCREASED OBSERVABILITY INTO EVENT SOURCE MAPPINGS (ESM) IN AWS LAMBDA

GA

AWS Lambda team announced new Amazon CloudWatch metrics for Event Source Mappings (ESMs), which provide customers visibility into the processing state of events with Amazon SQS, Amazon Kinesis, and Amazon DynamoDB event source integrations.

Nov, 21st

pre-re:Invent

All Regions

Event source mapping metrics

Event source mapping metrics provide insights into the processing behavior of your event source mapping. These metrics help you monitor the flow and status of events, including events that your event source mapping successfully processed, filtered, or dropped.

You must opt-in to receive metrics related to counts (PolledEventCount, FilteredOutEventCount, InvokedEventCount, FailedInvokeEventCount, DroppedEventCount, OnFailureDestinationDeliveredEventCount, and DeletedEventCount). To opt-in, you can use the console or the Lambda API.

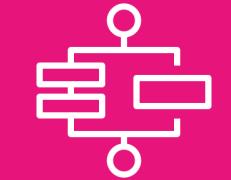


[AWS Announcement](#)



AWS Step Functions: JSONata and Variables

SIMPLIFY STATE PAYLOAD MANAGEMENT AND DATA TRANSFORMATION IN STATE MACHINES

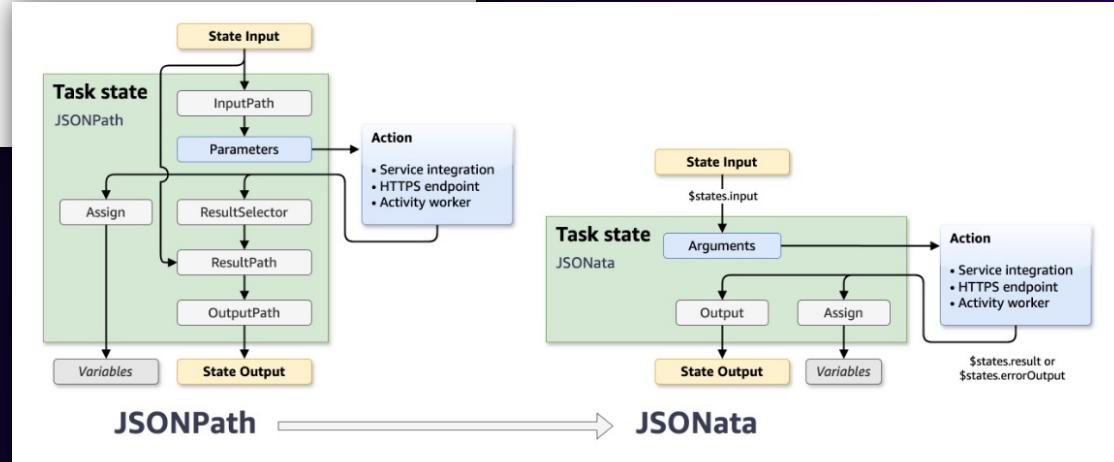
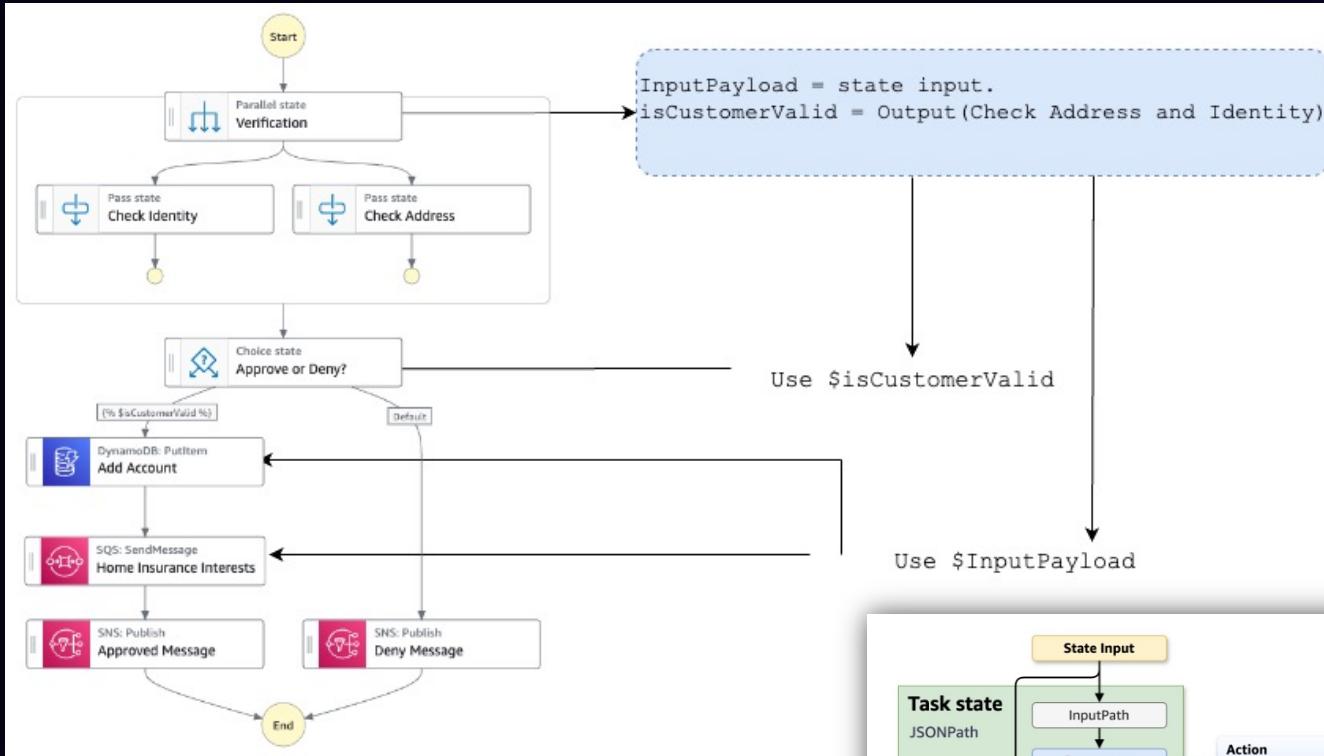


GA

Nov, 22nd

pre:Invent

All Regions



[AWS Compute Blog Post](#)



Provisioned Mode for Event Source Mapping

PROVISIONING EVENT POLLING RESOURCES FOR EVENT SOURCE MAPPING (ESM) IN AWS LAMBDA



GA

Nov, 22nd

pre-re:Invent

9 Regions

AWS Lambda announces Provisioned Mode for event source mappings (ESMs) that subscribe to Apache Kafka event sources.

This feature that allows you to optimize the throughput of your Kafka ESM by provisioning event polling resources that remain ready to handle sudden spikes in traffic.

The screenshot shows the AWS Lambda console with the 'Add triggers' page open. Under the 'Encryption' section, the 'Configure provisioned mode - new' checkbox is checked. The 'Minimum event pollers' field is set to 1, and the 'Maximum event pollers' field is set to 100. The 'Additional settings' section notes that an execution role must have proper permissions to read from the Apache Kafka trigger.



[AWS Announcement](#)



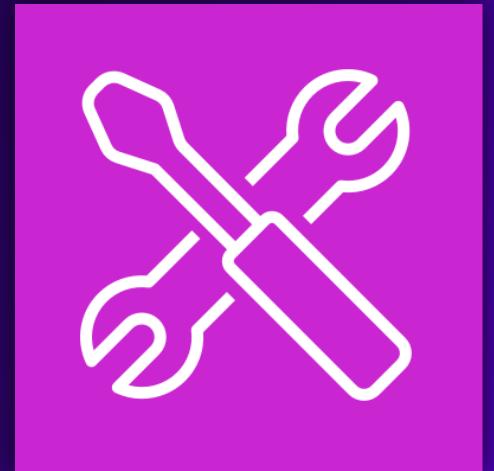
Other Announcements



1. **AWS Lambda runtime updates:**
 - a) [Support for Python 3.13 \(pre-re:Invent\)](#)
 - b) [Support for Node.js 22 \(pre-re:Invent\)](#)
2. [AWS Lambda now supports AWS Fault Injection Service \(FIS\) actions \(pre-re:Invent\)](#)
3. [S3 support as failed-event destination for all integrations in AWS Lambda \(pre-re:Invent\)](#)
4. [AWS AppSync now supports cross account sharing of GraphQL APIs \(pre-re:Invent\)](#)
5. [Announcing new APIs for Amazon Location Service Routes, Places, and Maps \(pre-re:Invent\)](#)

Developer Tools, Management, and Governance

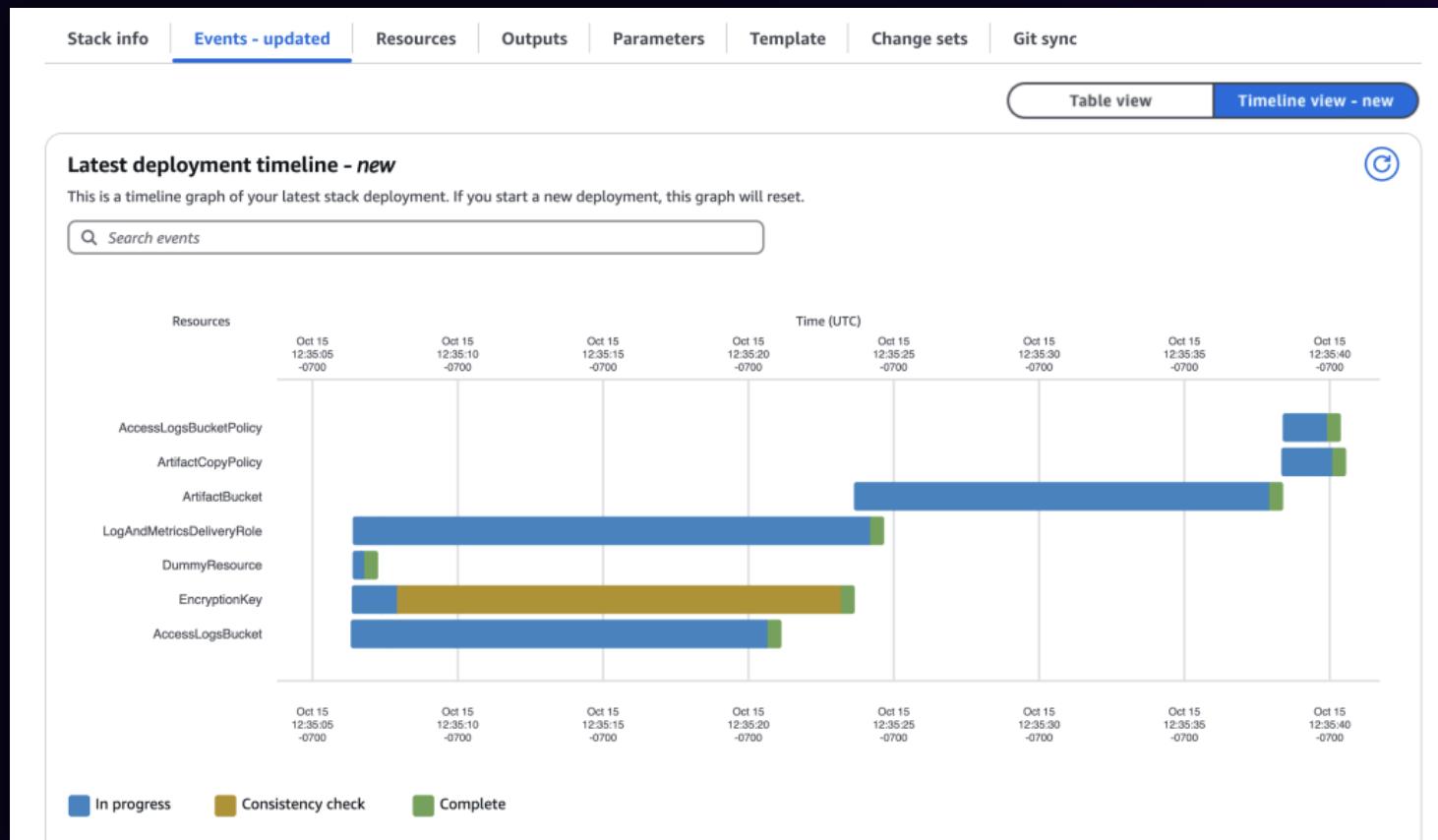
32 announcements (18 *pre:Invent*)



Timeline view in AWS CloudFormation

PEEK INSIDE YOUR AWS CLOUDFORMATION DEPLOYMENTS WITH TIMELINE VIEW

With this release, AWS CloudFormation Timeline View complements the existing views by giving you additional visibility into what happens during deployments.



GA

Nov, 11th

pre-re:Invent

All Regions



AWS DevOps Blog Post



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General Availability of AWS App Studio

EMPOWERING A NEW SET OF BUILDERS TO CREATE BUSINESS APPLICATIONS

The screenshot shows the AWS App Studio interface for a project named "Donnie_InventoryApp". The top navigation bar includes "Pages", "Automations", "Data", "App settings", and "Saved". On the left, there's a sidebar with sections like "RequestHardware", "ReviewRequests", and "PendingRequestsTitle1". A prominent feature on the right is the "Build with AI" component, which has a teal header and a white body. It displays the text "Build this component with the AI assistant" above three decorative star icons. Below this, it says: "With this component selected, use the Build with AI assistant to describe the feature or functionality you want to add and let it make changes for you. You can also get started quickly by choosing one of the suggested prompts." A list of suggested prompts is shown, with the last one highlighted in red: "Analyze an uploaded repair notes document and provide summary in bullet points." An orange arrow points from the text "With this component selected..." towards this highlighted prompt. At the bottom of the AI component, it says "80/4000". The footer of the page includes the AWS logo and the text "AI can make mistakes - double-check responses. Use is subject to the AWS Responsible AI Policy".

GA

Nov, 18th

pre-re:Invent

2 Regions



AWS News Blog Post

AWS Amplify AI Kit

BUILD FULLSTACK AI APPLICATIONS IN MINUTES WITH AWS AMPLIFY



GA

Nov, 19th

pre-re:Invent

All Regions

AWS Amplify Kit provides following capabilities:

- <AIConversation>
React UI component that provides a real-time, streaming chat experience with additional features.
- Type-safe client with secure server-side access to Amazon Bedrock, including secure ways to share user context.
- Fullstack TypeScript developer experience on top of Amplify Gen 2 and AWS AppSync.

The screenshot shows a code editor interface with a dark theme. The title bar says "amplify-ai-riv-demo". The left sidebar is an "EXPLORER" view showing project files: .amplify, .next, .vscode, amplify (selected), node_modules, src, .eslintrc.json, .gitignore, .prettierrc, amplify_outputs.json, next-env.d.ts, next.config.mjs, package-lock.json, package.json, README.md, and tsconfig.json. The main editor area contains the following TypeScript code:

```
    .authorization(allow) => [allow.authenticated()],
chat: a.conversation({
  aiModel: a.ai.model("Claude 3.5 Sonnet"),
  systemPrompt:
    You are a helpful assistant for a vacation home rental
  ,
  tools: [
    {
      query: a.ref("listListings"),
      description: "Used to search for rental listings"
    },
    {
      query: a.ref("getListing"),
      description: "Used to get information about a specific listing"
    }
  ]
})
```



[AWS News Blog Post](#)



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Application Signals for AWS Lambda

AMAZON CLOUDWATCH APPLICATION SIGNALS SUPPORT FOR AWS LAMBDA ENVIRONMENTS

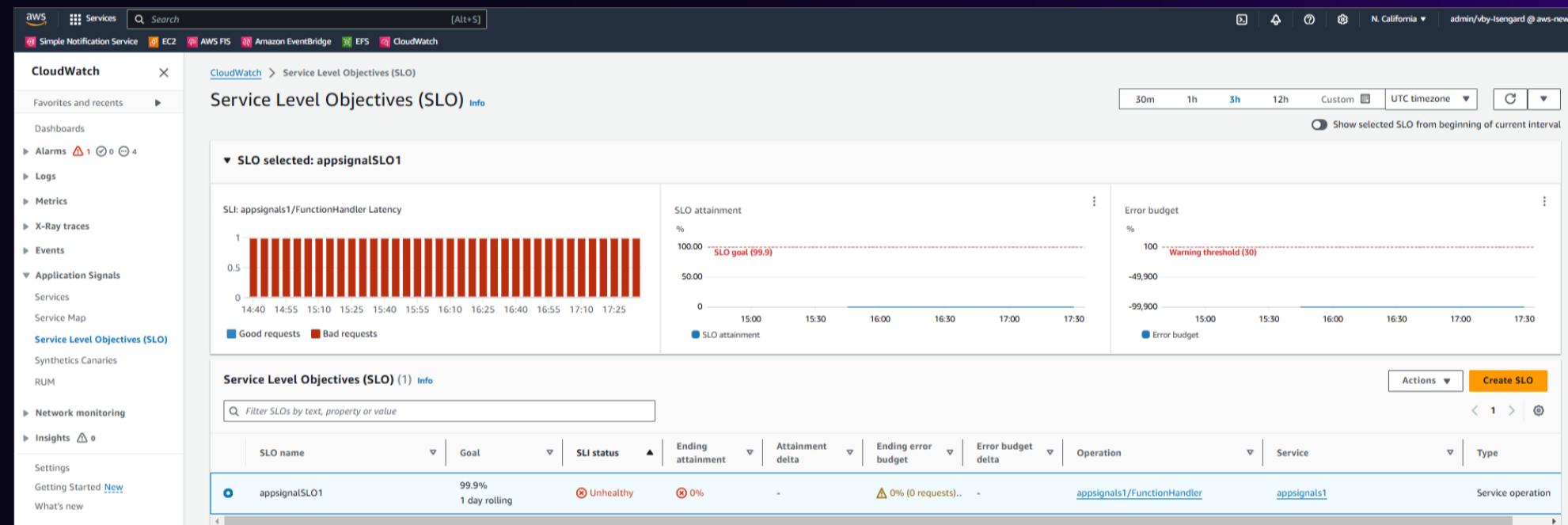
This announcement expands initial release of Amazon CloudWatch Application Signals, an AWS built-in application performance monitoring (APM) solution, with support for AWS Lambda-based applications.

GA

Nov, 21st

pre-re:Invent

All Regions



AWS News Blog Post



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Amazon Q Developer at pre-re:Invent

ECLIPSE IDE, CLI FOR CODE TRANSFORMATION AND STEP-BY-STEP UPGRADES, COST ANALYSIS

Similarly to the Q Business, Amazon Q Developer service team provided 9 different updates in the pre-re:Invent period – and to name the most important ones:

- **Amazon Q Developer Pro Tier** received updates for administrators and regular users to track their activity.
- **Amazon Q Developer** now can help with AWS CloudFormation troubleshooting.
- Support for a new IDE: **Eclipse** (*public preview*).
- **Amazon Q Developer Code Transformation** received CLI tool (*public preview*) and ability to perform step-by-step upgrades with explanation and transforming Oracle SQL to PostgreSQL dialect in Java applications.



GA

PP

Nov, 2024

pre-re:Invent

All Regions

Commands

For step-by-step instructions for running these commands, see [Running a transformation on the command line with Amazon Q Developer](#).

To configure a transformation and authenticate to Amazon Q Developer Pro, run:

```
qct configure
```

To start a transformation, run:

```
qct transform --source_folder <path-to-folder>
```

To start a transformation with a customization, run:

```
qct transform --source_folder <path-to-folder>
--custom_transformation_file <path-to-orchestrator-file>
```

To get help with transformations, run:

```
qct -h
```

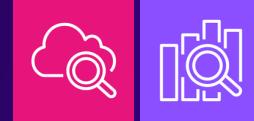


[AWS Announcement](#)



Integrated Analytics Experience

BETWEEN AMAZON CLOUDWATCH AND AMAZON OPENSEARCH SERVICE



Integrated Analytics Experience is a zero-ETL integration between Amazon CloudWatch and Amazon OpenSearch Service.

This integration simplifies log data analysis and visualization without data duplication, streamlining log management while reducing technical overhead and operational costs.

The screenshot shows the CloudWatch Logs Insights interface. At the top, there are two tabs: "Logs Insights" and "Analyze with OpenSearch". The "Analyze with OpenSearch" tab is selected. A callout box highlights the "Settings" button in the top right corner. Below the tabs, a message box says "Create OpenSearch integration" and "Dashboard creation requires a one-time OpenSearch integration creation. [Learn more about required permissions and configuring integration](#)".

The main area contains three dashboard cards:

- VPC Flow Logs**: Displays metrics such as flows over time, top talkers, and megabytes and packets transferred over time. It uses VPC version 2.
- Cloudtrail logs**: Displays metrics such as events over time, events by account ID, and event APIs.
- WAF logs**: Displays metrics such as total requests, requests by terminating action, and requests by top countries.

GA

Dec, 1st

re:Invent

All Regions



AWS News Blog Post



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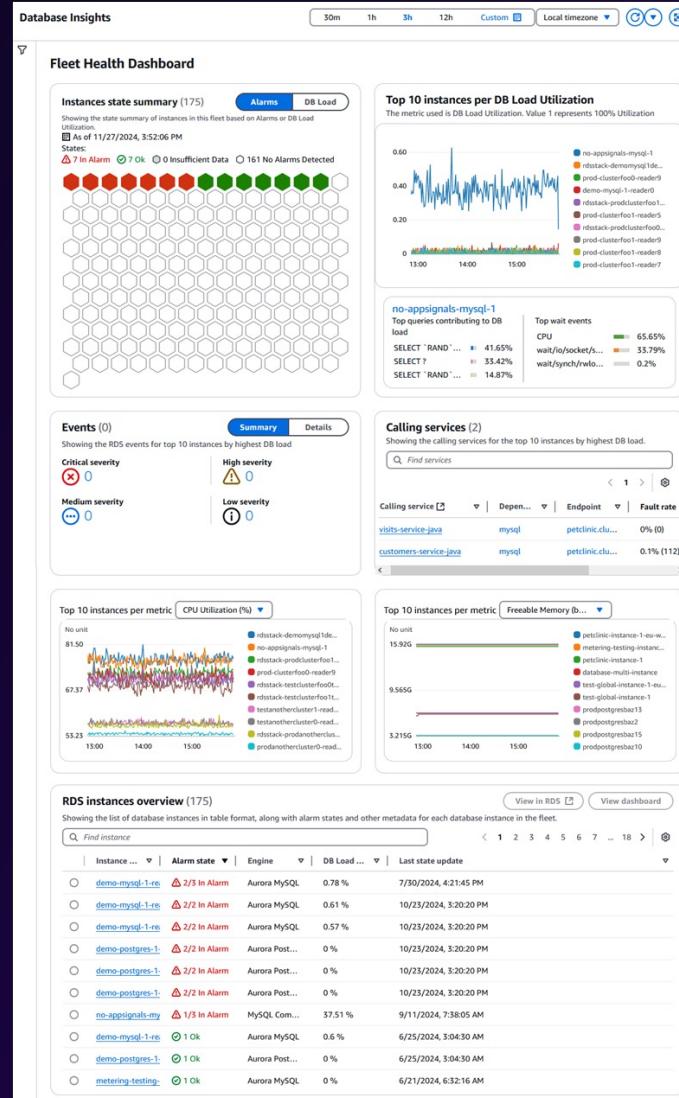
Amazon CloudWatch Database Insights

FOR AMAZON AURORA MYSQL AND POSTGRESQL

Observing your Amazon Aurora databases is now a whole lot easier.

Instead of spending time setting up telemetry, building dashboards, and configuring alarms, you just open **Amazon CloudWatch Database Insights** and take a look.

With no further setup, you can monitor the health of all of your Amazon Aurora MySQL and PostgreSQL instances in the selected region with a dashboard you can see on the side.



GA

Dec, 1st

re:Invent

All Regions



[AWS News Blog Post](#)

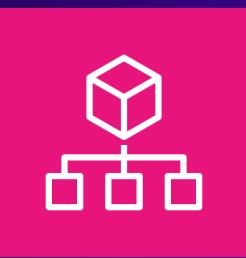


Declarative Policies (DPs)

SIMPLIFY GOVERNANCE WITH DECLARATIVE POLICIES

Declarative Policies (DPs) are new capability that helps you declare and enforce desired configuration for a given AWS Service at scale across your AWS Organizations.

At the moment, they support Amazon EC2, Amazon VPC, and Amazon EBS services, with service attributes that include enforcing IMDSv2, allowing troubleshooting through serial console, allowed AMI settings, and blocking public access for Amazon EBS snapshots, Amazon EC2 AMI, and VPC.



GA

Dec, 1st
re:Invent
All Regions

AWS Organizations > Policies

Policies

Policies in AWS Organizations enable you to manage different features of the AWS accounts in your organization. [Learn more](#)

Policy type	Status
AI services opt-out policies AI services opt-out policies allow you to control data collection for AWS AI services for all the accounts in an organization. Learn more	Disabled
Backup policies Backup policies allow you to centrally manage and apply backup plans to the AWS resources across an organization's accounts. Learn more	Disabled
Chatbot policies Chatbot policies allow you to control access to an organization's accounts from chat applications such as Slack and Microsoft Teams. Learn more	Disabled
Declarative policies for EC2 Declarative policies for EC2 enable you to define and enforce desired configuration for EC2 across all your accounts. Once attached, configuration is always maintained. Learn more	Disabled
Resource control policies Resource control policies (RCPs) offer central control over the maximum available permissions for resources in an organization. Learn more	Disabled
Service control policies Service control policies (SCPs) offer central control over the maximum available permissions for IAM users and IAM roles in an organization. Learn more	Disabled
Tag policies Tag policies allow you to standardize the tags attached to the AWS resources in an organization's accounts. Learn more	Disabled



AWS News Blog Post



Amazon Q Developer at re:Invent

GENERATING CODE REVIEW, TESTS, DOCUMENTATION, GITLAB INTEGRATION, AND OPS HELP



GA

PP

Dec, 3rd

re:Invent

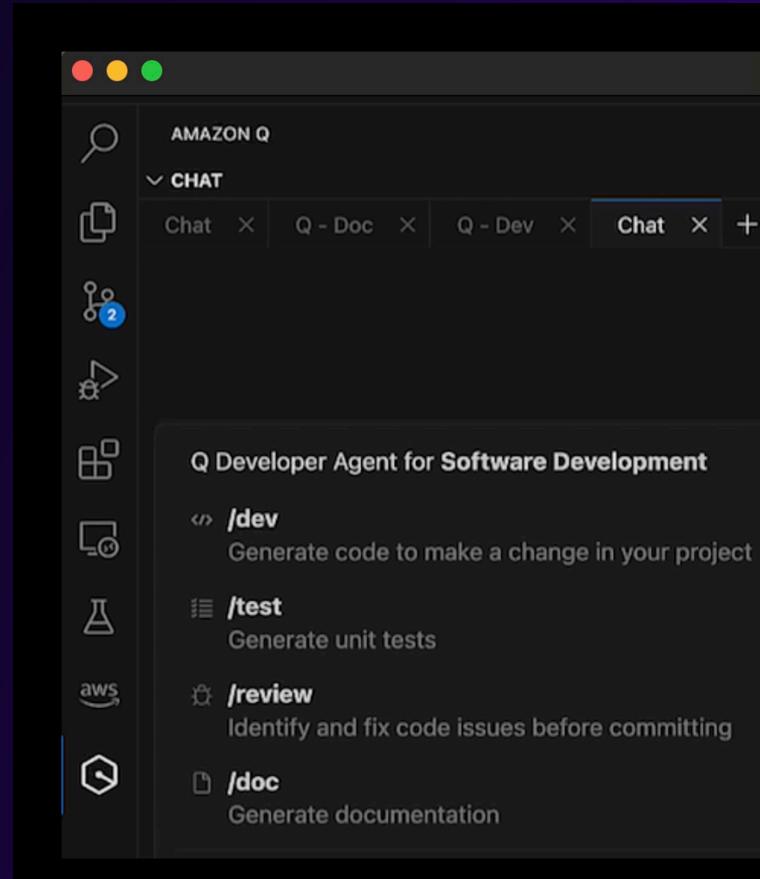
All Regions

With announcements presented this year, Amazon Q Developer got 3 new agent capabilities:

1. Enhancing documentation in codebases via [/doc](#) command.
2. Supporting code reviews to detect and resolve security and code quality issues via [/review](#).
3. Generating unit tests automatically and improving test coverage [/test](#).

All of the above in your preferred IDE or GitLab Duo with Amazon Q ([preview](#)), which is one of the most popular enterprise DevOps platforms.

Additionally, there is a new capability in Amazon Q Developer to **investigate and remediate operational issues** ([preview](#)).



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Transformation capabilities of Q Developer

.NET APPS FROM WINDOWS TO LINUX, VMWARE WORKLOADS AND MAINFRAMES



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This is your workspace description. A workspace is a collection of jobs, artifacts, connectors and collaborators. You can chat with Q about any of these concepts.

Ask Amazon Q

PR Create a new job

Q I'd be happy to help you create a new job. To get started, could you please specify which type of transformation you'd like to work on? I support the following types of migrations:

1. Mainframe modernization
2. .NET modernization
3. VMware migration

Once you let me know which type you're interested in, I can guide you through the process of creating a new job for that specific transformation.

PR .NET modernization

Q Thank you for specifying that you'd like to work on .NET modernization. I'll be glad to help you create a new job for this type of transformation. For .NET modernization, I currently support one specific objective: "Modernize .NET Applications to cross-platform .NET". This objective covers the process of updating your .NET applications to make them compatible with cross-platform .NET environments. Let's create a job for this. I'll suggest a job name, but please feel free to modify it if you prefer something different. Suggested job name: DotNetModernization Here are the details for the new job:

- Job Type: .NET modernization
- Objective: Modernize .NET Applications to cross-platform .NET
- Job Name: DotNetModernization

Are you happy with these details, or would you like to change the job name?

What would you like to transform today?



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Q Developer in Amazon SageMaker Canvas

GUIDING MACHINE LEARNING MODELS DEVELOPMENT WITH NATURAL LANGUAGE



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Dec, 4th

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Adding Amazon Q Developer to Amazon SageMaker Canvas helps to connect machine learning expertise with business needs.

Natural language conversations are making the process of building ML models much easier for domain experts.

Those roles can build accurate, production-quality models, even if they don't have machine learning expertise.

A screenshot of the Amazon SageMaker Canvas interface. At the top, a user icon shows a person and asks, "What data prep steps did you apply to transform the data?". Below, a response icon shows a hexagon and says, "I've fixed the issues below which will result in better data quality suited for model training. Additionally, you can see a preview of the transformed data. Note that these changes will not affect your stored data in Amazon S3." A "Data Preparation Summary" section lists: "• 127 outliers were removed". Below this are buttons for "View Dataset in Canvas" (disabled), "Launch my training job." (highlighted with an orange border), "Show analysis report", and "Start a new conversation". At the bottom, there's a text input field with a downward arrow icon, a "Use of Amazon Q is subject to the AWS Responsible AI Policy" link, and a right-pointing arrow icon. There are also thumbs up and thumbs down icons.



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Other Announcements



1. [Introducing a new experience for AWS Systems Manager \(pre-re:Invent\)](#)
2. [AWS CodePipeline actions: publishing ECR image and AWS InspectorScan \(pre-re:Invent\)](#)
3. [AWS CloudFormation Hooks updates:](#)
 - a) [AWS CloudFormation Hooks now support custom AWS Lambda functions \(pre-re:Invent\)](#)
 - b) [AWS CloudFormation Hooks introduces stack and change set target invocation points \(pre-re:Invent\)](#)
 - c) [Author AWS CloudFormation Hooks using CloudFormation Guard domain specific language \(pre-re:Invent\)](#)
4. [Amazon CloudWatch adds network performance monitoring using flow monitors \(re:Invent\)](#)

Security, Identity, and Compliance

16 announcements (11 *pre-re:Invent*)



Resource Control Policies (RCPs)



CENTRALLY RESTRICT ACCESS TO AWS RESOURCES WITH NEW MANAGED AUTHORIZATION POLICY

Resource Control Policy (RCP) is a new authorization policy managed in AWS Organizations that can be used to set the maximum available permissions on resources within your entire organization.

They are a type of preventative control that help you establish a data perimeter in your AWS environment and restrict external access to resources at scale.

Policies

Policies in AWS Organizations enable you to manage different features of the AWS accounts in your organization. [Learn more](#)

Supported policy types

Policy type	Status
AI services opt-out policies AI services opt-out policies allow you to control data collection for AWS AI services for all the accounts in an organization. Learn more	Disabled
Backup policies Backup policies allow you to centrally manage and apply backup plans to the AWS resources across an organization's accounts. Learn more	Disabled
Chatbot policies Chatbot policies allow you to control access to an organization's accounts from chat applications such as Slack and Microsoft Teams. Learn more	Disabled
Resource control policies Resource control policies (RCPs) offer central control over the maximum available permissions for resources in an organization. Learn more	Disabled
Service control policies Service control policies (SCPs) offer central control over the maximum available permissions for IAM users and IAM roles in an organization. Learn more	Disabled
Tag policies Tag policies allow you to standardize the tags attached to the AWS resources in an organization's accounts. Learn more	Disabled

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Nov, 13th

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Centralized Management of Root Access



USING AWS ORGANIZATIONS

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AWS Identity and Access Management (IAM) is launching a new capability allowing security teams to centrally manage root access for member accounts in AWS Organizations.

Nov, 15th

pre-re:Invent

All Regions

You can now easily manage root credentials and perform highly privileged actions with ability to establish a root session in a member AWS Account.

Centralized root access for member accounts [Info](#)

Centralized root access allows you to manage root credentials for your member accounts from the [root access management](#) page. You can launch a privileged session into your member accounts to delete root credentials and perform other privileged actions.

Available features

Root credentials management You can delete and audit root credentials of member accounts. You can also allow password recovery for specific member accounts. <input checked="" type="checkbox"/> Enabled Disable	Privileged root actions in member accounts You can take certain root actions in member accounts like deleting misconfigured policies in Amazon SQS or Amazon S3. <input checked="" type="checkbox"/> Enabled Disable	Delegated administrator for centralized root access In addition to the management account, this member account will be authorized to have centralized root access for other member accounts. Assign
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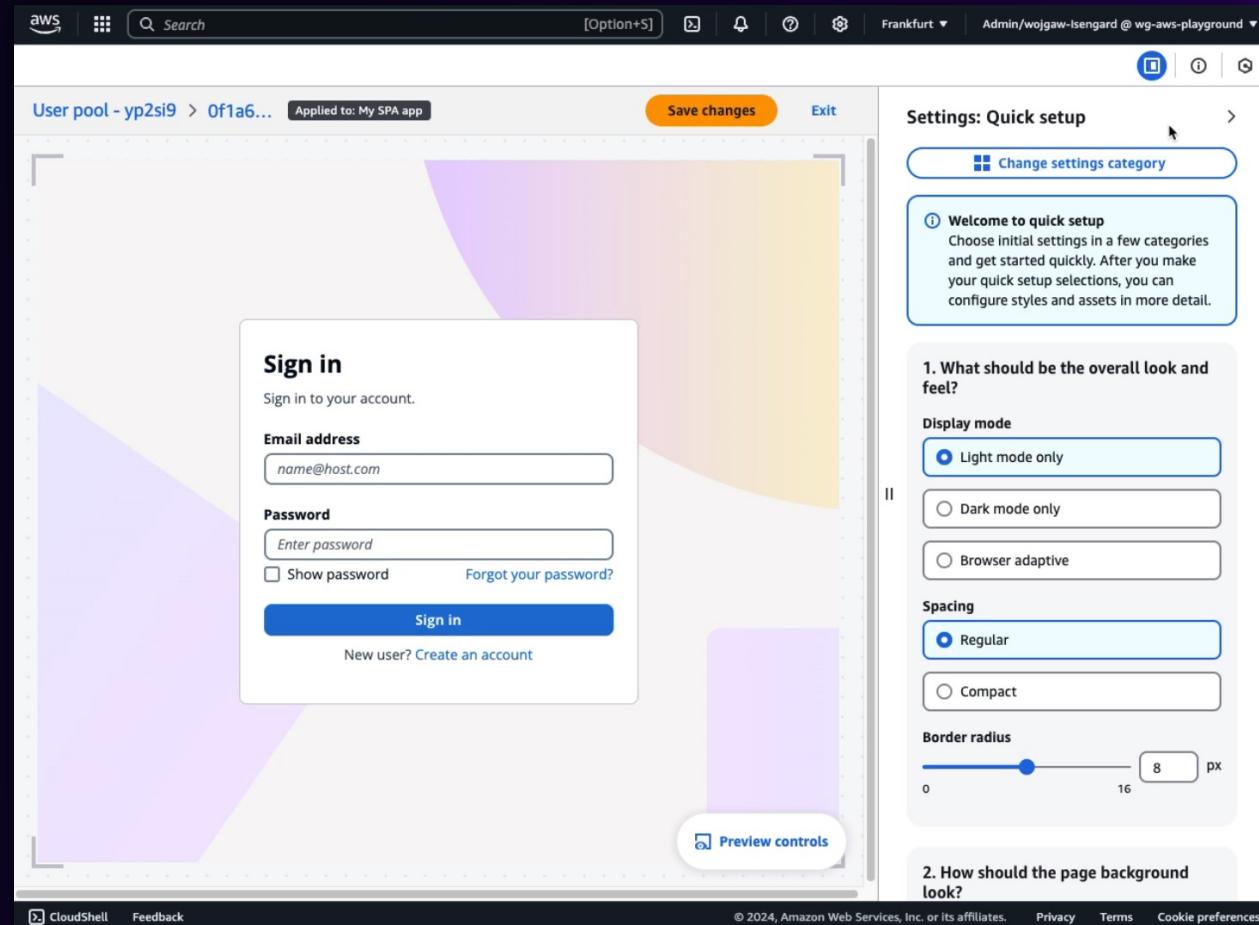


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New Amazon Cognito features

After 10 years from the initial announcement, Amazon Cognito gets a well-expected overhaul with batch of updates:

- Improved **Developer Experience (DX)** for popular programming languages and frameworks, and improved **User Experience (UX)** with the new UI in AWS Management Console.
- **Managed Login**, as an improved version of *Hosted UI* with enhanced customization, visual builder, and templates.
- **Passwordless Login**, including Passkey authentication.
- **Updated Pricing Plans**.



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Nov, 22nd

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[AWS News Blog Post](#)



Extended Threat Detection for GuardDuty

AMAZON GUARDDUTY NOW IDENTIFIES ATTACK SEQUENCE WITH AI/ML



GA

Dec, 1st

re:Invent

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GuardDuty > Findings > Finding details

Potential data compromise of one or more S3 buckets involving a sequence of actions over multiple signals associated with a user in your account.

Critical First seen a month ago, last seen a month ago

Actions ▾

A sequence of actions involving 8 signals indicating a possible data compromise of one or more S3 bucket(s) was observed for AssumedRole/Admin with principalId Isengard in account between 2024-10-17T17:47:24Z and 2024-10-18T17:11:44Z with the following behaviors:

- 6 MITRE ATT&CK tactics observed: Exfiltration, Impact, Persistence, Defense Evasion, Credential Access, Discovery
- 1 MITRE ATT&CK techniques observed: Data Destruction
- 7 sensitive APIs called: apigateway:GetApiKeys, cloudtrail:DeleteTrail, iam>CreateAccessKey, iam>ListGroups, s3>DeleteObject, s3GetObject, s3>ListObjects

Finding ID [REDACTED]

Type AttackSequence:S3/CompromisedData

Region eu-west-1

Account [REDACTED]

Attack sequence

MITRE tactics

Discovery Initial Access Execution Persistence Privilege Escalation Defense Evasion
Lateral Movement Credential Access Collection Exfiltration Impact

▶ Indicators (3)
Reasons why this collection of signals was identified as an attack sequence.

▶ Actors (1)
Information about the actors identified in this attack sequence.

▶ Endpoints (3)
Information about network endpoints that were involved in this attack sequence.

Signals (8) Resources (4)

Signals (8)

Signals are correlated types of data, including findings, and are used to assess an attack sequence. Last updated [x] minutes ago, when the attack sequence risk was last calculated. Some of the findings may have been updated since the risk was last calculated.

Sort by Newest first

October 18, 2024

19:11:44 (UTC+02:00)

The API GetApiKeys was invoked from a [REDACTED] Linux computer. Defense Evasion

Resources involved

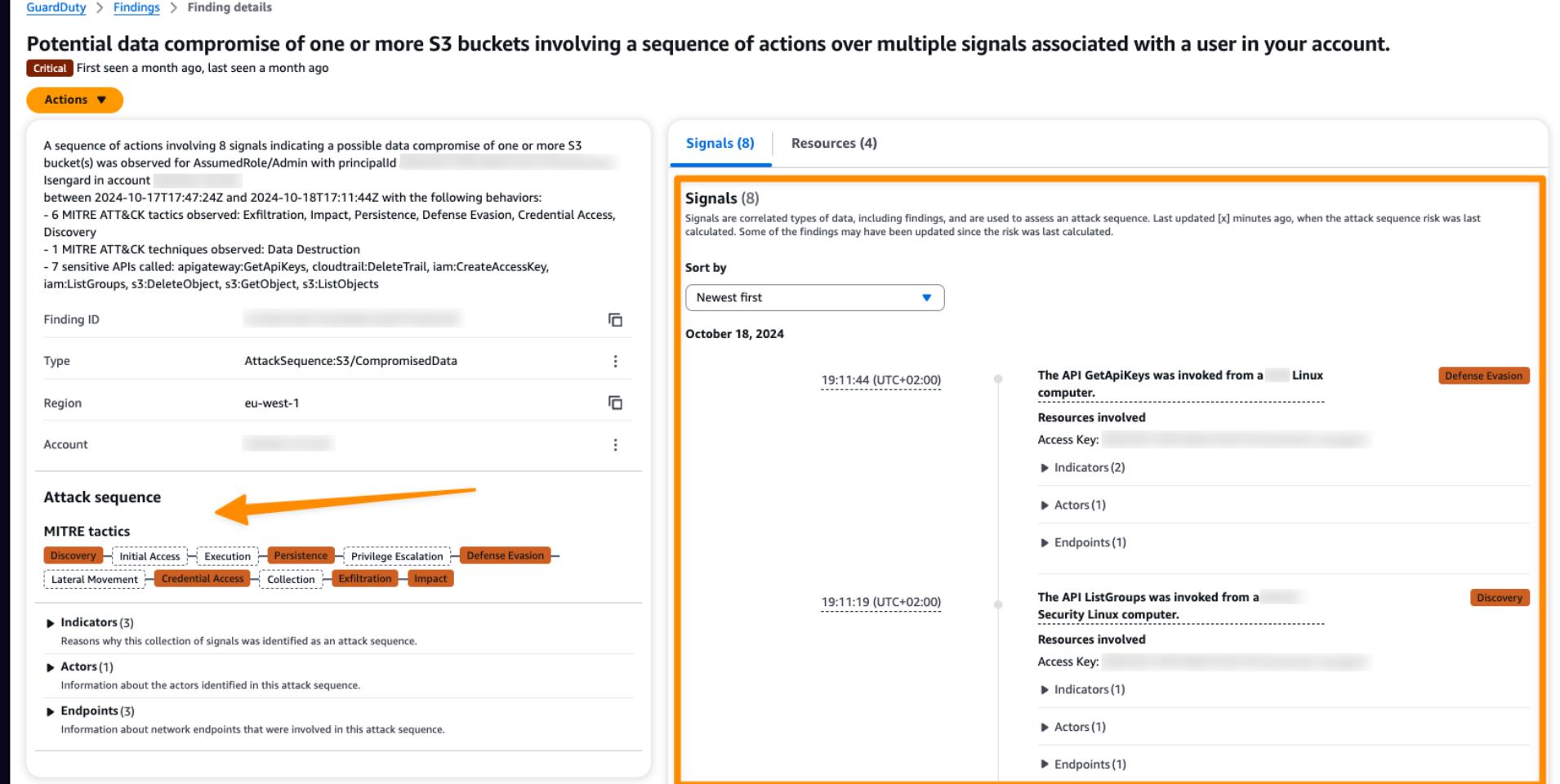
Access Key:
▶ Indicators (2)
▶ Actors (1)
▶ Endpoints (1)

19:11:19 (UTC+02:00)

The API ListGroups was invoked from a [REDACTED] Security Linux computer. Discovery

Resources involved

Access Key:
▶ Indicators (1)
▶ Actors (1)
▶ Endpoints (1)



AWS News Blog Post



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AWS Security Incident Response

MANAGE AND NEUTRALIZE SECURITY EVENTS QUICKLY AND EFFECTIVELY

AWS Security Incident Response is a new service designed to help organizations manage security events quickly and effectively.

The service is purpose-built to help customers prepare for, respond to, and recover from various security events, including account takeovers, data breaches, and ransomware attacks.

It automates the triage and investigation of security findings from Amazon GuardDuty and integrated third party threat detection tools through AWS Security Hub.

The screenshot shows the AWS Security Incident Response console. A green banner at the top says "Case created successfully. We will acknowledge the case within 15 minutes. In the meantime, you can set up permissions or add more details to the case." Below it, the case details are shown:

- Resolver:** AWS
- Name:** Active incident [2024-05-07]
- Type:** Active Incident
- arn:** arn:aws:SecurityIncidentResponse:3421132312
- State date estimate:** 2024-05-07
- Created at:** 2024-05-07T14:32:35+03:00
- Last updated:** 0 seconds ago

A status dropdown menu is open, showing options: Submitted, Acknowledged, Detection & Analysis, Containment, Eradication & Recovery, Post-incident activities, Ready to close, and Closed. The "Submitted" option is selected.

The interface includes tabs for Details, Communications, Permissions, Attachments, Tags, and Case activities. The Details tab is active.

Description:
1. Security Issue Description: What happened?
The activity is causing latency within the accounts and our datastores seem to be compromised with bad data that is impacting our overall consumer experience.
2. How did you discover the issue?
3. What is the current impact?
The activity is causing latency within the accounts and our datastores seem to be compromised with bad data that is impacting our overall consumer experience.
4. What have you done so far?
5. What would you like us to help with?
Remediation

Case details:
This section is automatically updated by the service and the AWS security professional assigned to your case.
Incident start time (actual): -
Main services impacted: Amazon GuardDuty
Impacted accounts: 123456789012, 2123212211211, 122422422134
Main regions impacted: Africa (Cape Town), US East(Ohio), US West (N. California), US West (Oregon)

Threat actor IPs (3):
This section is automatically updated by the service and the AWS security professional assigned to your case.

IP Address	User agent
000.00.000.000	Browser attack
11.11.111.111	python-requests/2.25.1
222.222.222.222	-

GA

Dec, 1st

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12 Regions



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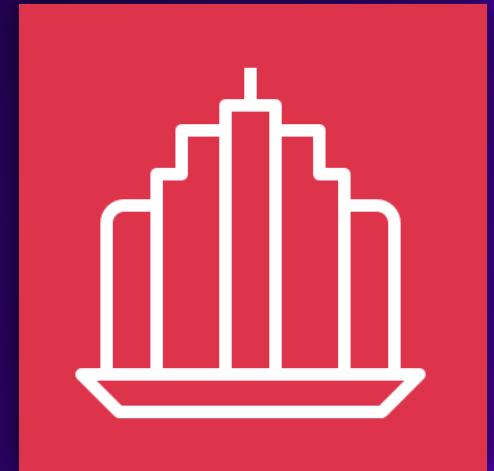
Other Announcements



1. [OCSF joins the Linux Foundation: Accelerating the Standardization of Cybersecurity Data](#) (pre-re:Invent)
2. [Verify the Safety of the Rust Standard Library](#) (pre-re:Invent)
3. [Customize scope of IAM Access Analyzer unused access analysis](#) (pre-re:Invent)
4. [Amazon Verified Permissions launches new API to get multiple policies](#) (pre-re:Invent)
5. [AWS CloudTrail Lake enhancements for cloud visibility and investigations](#) (pre-re:Invent)
6. [Amazon OpenSearch Service and Amazon Security Lake zero-ETL integration](#) (re:Invent)
7. [AWS Verified Access supports secure access for SSH and RDP protocols](#) (re:Invent, )
8. [AWS post-quantum cryptography migration plan](#) (re:Invent)

Business Applications

15 announcements (1 *pre-re:Invent*)





Embedded Analytics in AWS Supply Chain

EMBEDDED ANALYTICS POWERED BY AMAZON QUICKSIGHT

AWS Supply Chain Analytics are custom report dashboards powered by Amazon QuickSight, that are available for business analysts or supply chain managers inside the service.

GA

Oct, 31st

pre-re:Invent

All Regions

The screenshot shows the AWS Supply Chain Analytics interface. On the left is a sidebar with navigation icons for Favorites, Recent, My folders, Shared folders, Dashboards, Analyses, and Datasets. The main area is titled "AWS Supply Chain Analytics Powered by QuickSight" and shows a grid of "Prebuilt Dashboards". The grid contains 15 dashboard cards, each with a title, a preview image, and update information. Some titles include "Demand Plan Accuracy Wa...", "Seasonality Analysis", "Product", and "Forecast Overview". A mouse cursor is hovering over the third dashboard in the top row. The top right corner of the dashboard area has a "Powered by QuickSight" watermark.



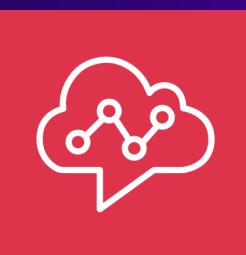
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New capabilities in Amazon Connect

WHATSSAPP BUSINESS, SIMPLIFIED AI BOT CREATION, GUARDRAILS AND Q IMPROVEMENTS



GA

Dec, 1st

re:Invent

All Regions

A set of new features that help businesses enhance their contact center operations through generative AI, advanced security features, and streamlined bot management.

These innovations help businesses deliver better customer experiences by creating more time and space for meaningful human interactions, while maintaining security and compliance.

The screenshot shows the Admin Workspace interface for Amazon Connect. On the left, a sidebar lists various workspace categories: Home, Analytics and optimization, Routing, Flows, Prompts, Queues, Hours of operation, Quick connects, Predefined attributes, Users, and Outbound campaigns. The main content area is titled 'eli-bot' and shows a success message: 'Successfully created language: English (US)'. It includes tabs for Details, Configuration (selected), Analytics, Aliases, and Versions. The Configuration tab contains sections for 'Define your bot', 'Configure your supported language' (with a note about unbuilt changes), 'Confidence score threshold' (set to 0.4), and 'Intent' (with FallbackIntent selected). An 'Amazon Q in Connect intent' section is also present.



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Session Recordings from AWS re:Invent 2024 (1/2)

1. [Slide 34](#): [Store tabular data at scale with Amazon S3 Tables \(STG367\)](#)
2. [Slide 43](#): [Amazon Elastic VMware Service: Start your modernization with AWS \(MAM119\)](#)
3. [Slide 47](#): [Achieving scale with Amazon Aurora PostgreSQL Limitless Database \(DAT420\)](#)
4. [Slide 50](#): [Build scalable and cost-optimized apps with Amazon Aurora Serverless \(DAT316\)](#)
5. [Slide 51](#): [Improve resiliency using Amazon MemoryDB Multi-Region \(DAT426\)](#)
6. [Slide 52](#): [Transform your data with Oracle Database@AWS \(DAT246\)](#)
7. [Slide 53](#): [Multi-region strong consistency with Amazon DynamoDB global tables \(DAT425\)](#)
8. [Slide 54](#): [Get started with Amazon Aurora DSQL \(DAT424\)](#)
9. [Slide 70](#): [Amazon SageMaker Lakehouse: Accelerate analytics & AI \(ANT354\)](#)
10. [Slide 72](#): [Simplify business scenario analysis with Amazon Q in QuickSight \(BSI104\)](#)
11. [Slide 73](#): [Empower your data journey with Amazon DataZone's data lineage \(ANT207\)](#)
12. [Slide 84](#): [Introducing automated reasoning checks in Amazon Bedrock Guardrails \(AIM393\)](#)
13. [Slide 87](#): [Practical generative AI using Amazon Nova \(AIM398\)](#)

Session Recordings from AWS re:Invent 2024 (2/2)

14. [Slide 91](#): [Amazon SageMaker HyperPod: Reduce costs with new governance capability \(AIM388\)](#)
15. [Slide 94](#): [Real-time event patterns with WebSockets and AWS AppSync \(FWM302\)](#)
16. [Slide 96](#): [Accelerate Python and .NET Lambda functions with SnapStart \(SVS218\)](#)
17. [Slide 97](#): [What's new with Amazon CloudWatch \(COP381\)](#)
18. [Slide 98](#): [Building advanced workflows with AWS Step Functions \(API402\)](#)
19. [Slide 102](#): [How to choose between AWS CloudFormation, Terraform, and AWS CDK \(DEV309\)](#)
20. [Slide 103](#): [AWS App Studio: The fastest and easiest way to build applications \(AIM218\)](#)
21. [Slide 110](#): [What's new with Amazon Q Developer agents \(DOP223\)](#)
22. [Slide 111](#): [Modernize mainframe applications faster using Amazon Q Developer \(DOP221\)](#)
23. [Slide 111](#): [Accelerate .NET porting from Windows to Linux with Amazon Q Developer \(DOP208\)](#)
24. [Slide 118](#): [Uncovering sophisticated cloud threats with Amazon GuardDuty \(SEC219\)](#)
25. [Slide 119](#): [Respond and recover faster with AWS Security Incident Response \(SEC360\)](#)
26. [Slide 123](#): [Reimagine end customer self-service with Amazon Connect \(BIZ223\)](#)

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