



Trends in Cloud Computing

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Introduction

Cloud computing is always changing, and AWS is always innovating. With new services and features being introduced regularly and improvements like lower costs, more granular billing options, higher quotas, new Regions, or faster performance, it is vital to stay up to date on what is happening.

This document provides an overview of some of the latest trends in cloud computing at AWS, along with resources that you can use to stay informed.

Latest advancements

Generative artificial intelligence (AI) is changing the way that organizations do work. AWS has infrastructure, tools, and applications to help customers use generative AI in their business. Here are some of the generative AI services that AWS has announced:

- **Amazon Bedrock:** A fully managed service that offers a choice of high-performing foundation models (FMs) along with a broad set of capabilities that you need to build generative AI applications, simplifying development with security, privacy and responsible AI.
- **Amazon Q:** A new type of generative AI-powered assistant. It is specifically for work and can be tailored to your business to have conversations, solve problems, generate content, and take actions using the data and expertise found in your company's information repositories, code bases, and enterprise systems.
- **Amazon Q Developer:** An AI coding companion that generates whole line and full function code suggestions in your integrated development environment (IDE). Amazon Q Developer makes suggestions based on the code comments on current and previous inputs using generative AI. Aside from helping to generate code, Amazon Q Developer also scans your code to detect hard-to-find security vulnerabilities and provides code suggestions to remediate them.

For more information on AWS generative AI offerings, see the following:

- “Generative AI for every business” at <https://aws.amazon.com/generative-ai/>
- “Amazon Bedrock” at <https://aws.amazon.com/bedrock/>
- “Amazon Q Developer” at <https://aws.amazon.com/developer/generative-ai/amazon-q/>
- “Setting up Amazon Q Developer” at <https://docs.aws.amazon.com/amazonq/latest/qdeveloper-ug/getting-started-q-dev.html>
- “Amazon Q (Preview)” at <https://aws.amazon.com/q/>
- Educate course “Artificial Intelligence”
- AWS SkillBuilder courses (Free)
 - “Amazon Bedrock - Getting Started” at <https://explore.skillbuilder.aws/learn/course/external/view/elearning/17508/amazon-bedrock-getting-started>
 - “Amazon Q Developer - Getting Started” at

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<https://explore.skillbuilder.aws/learn/course/external/view/elearning/19491/amazon-q-developer-getting-started>

- Introduction to Generative AI - Art of the Possible“ at <https://explore.skillbuilder.aws/learn/course/external/view/elearning/17176/introduction-to-generative-ai-art-of-the-possible>

Staying informed

Whatever your role in cloud computing, use the following resources to stay informed:

- What's New with AWS? at <https://aws.amazon.com/new>
- AWS Architecture Blog at <https://aws.amazon.com/blogs/architecture/>
- AWS Certification at <https://aws.amazon.com/certification>
- AWS Training and Certification blog at <https://aws.amazon.com/blogs/training-and-certification/>
- AWS SkillBuilder courses (account needed) at <https://explore.skillbuilder.aws/learn/catalog/view/54>