
AWS
re:Invent

EMB017

Accelerate innovation with EC2 Mac instances

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AWS re:Invent

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Agenda

- Amazon EC2 overview
- Apple application development trends
- Introducing Amazon EC2 Mac Instances
  - Technical specifications
  - EC2 integration
  - Use cases



AWS recognized as a cloud leader for the 10th consecutive year

Gartner, Magic Quadrant for Cloud Infrastructure & Platform Services, Raj Bala, Bob Gill, Dennis Smith, David Wright, Kevin Ji, 1 September 2020. Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose. The Gartner logo is a trademark and service mark of Gartner, Inc., and/or its affiliates, and is used herein with permission. All rights reserved.

Broadest and deepest platform choice

Categories

General purpose

Burstable

Compute intensive

Memory intensive

Storage (high I/O)

Dense storage

GPU compute

Graphics intensive

Capabilities

Choice of processor
(AWS, Intel, AMD)

Fast processors
(up to 4.0 GHz)

High memory footprint
(up to 24 TiB)

Instance storage
(HDD and SSD)

Accelerated computing
(GPUs and FPGA)

Networking
(up to 400 Gbps)

Bare metal

Size
(Nano to 32xlarge)

Options

Amazon Elastic Block Store (Amazon EBS)

Amazon Virtual Private Cloud (Amazon VPC)

Amazon Elastic Inference

More than

350

instance types

for virtually every workload and business need

Why macOS on Amazon EC2?

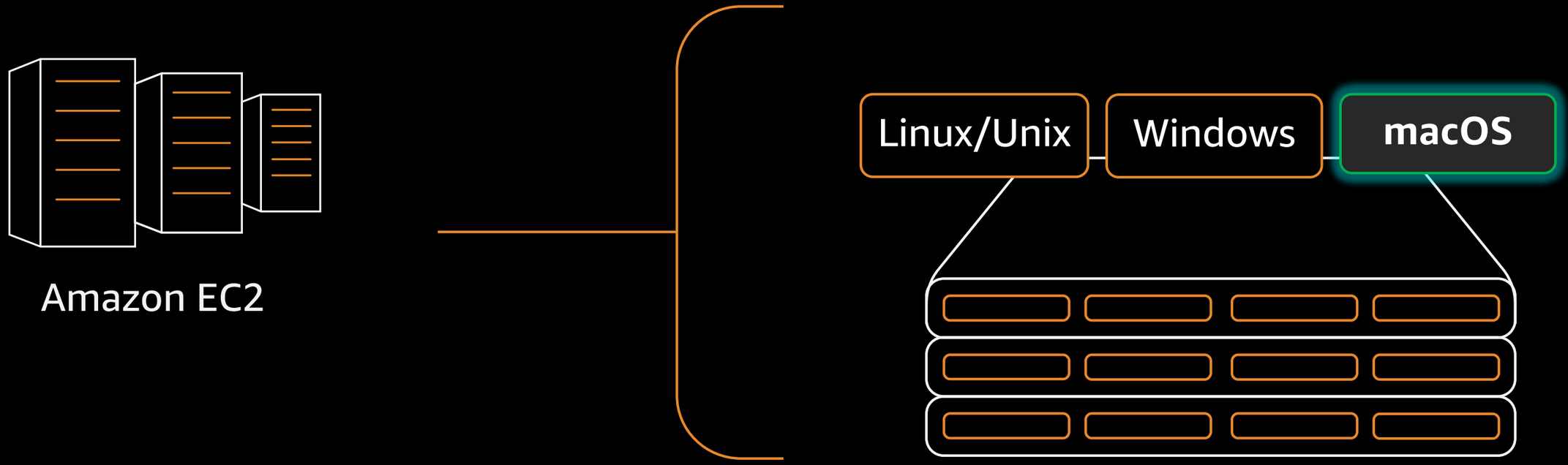
28+ million **developers**

2.2+ million **apps**

1.1+ billion global **customers**



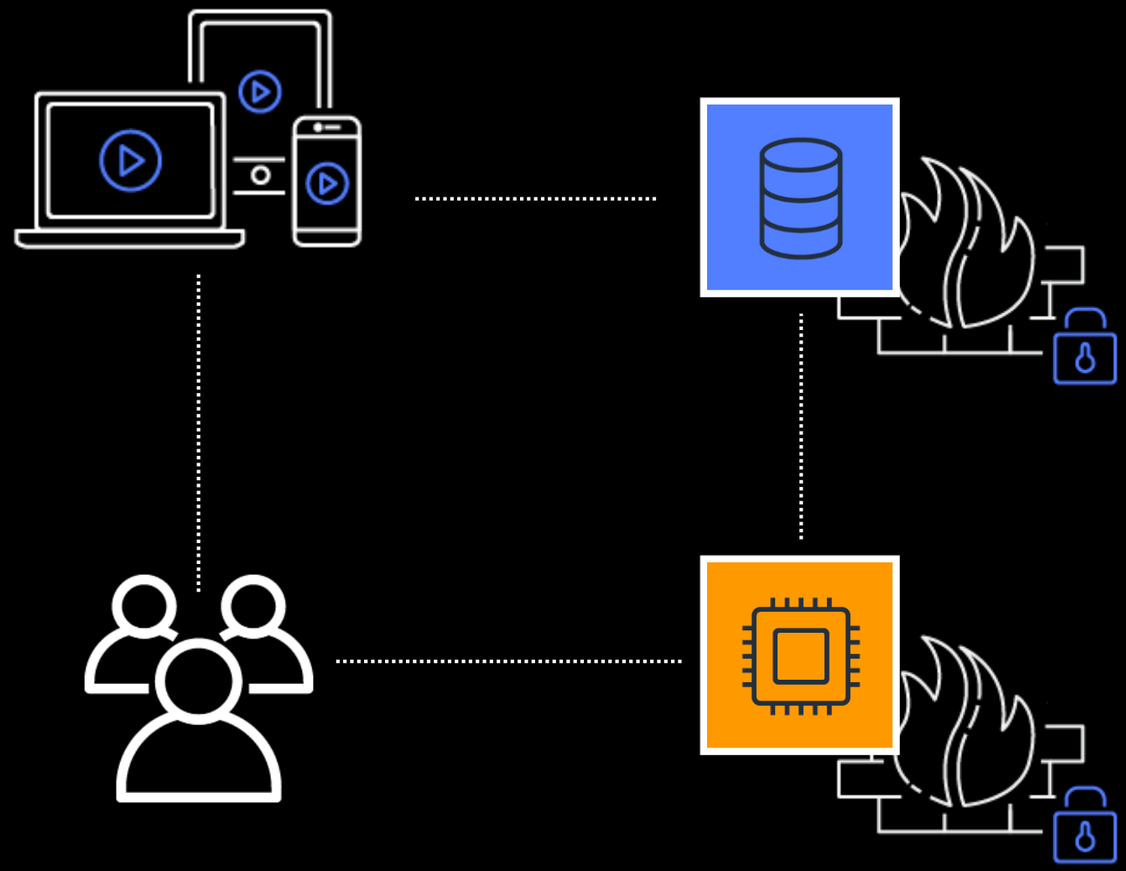
Amazon Elastic Compute Cloud (Amazon EC2)



Introducing Amazon EC2 Mac Instances

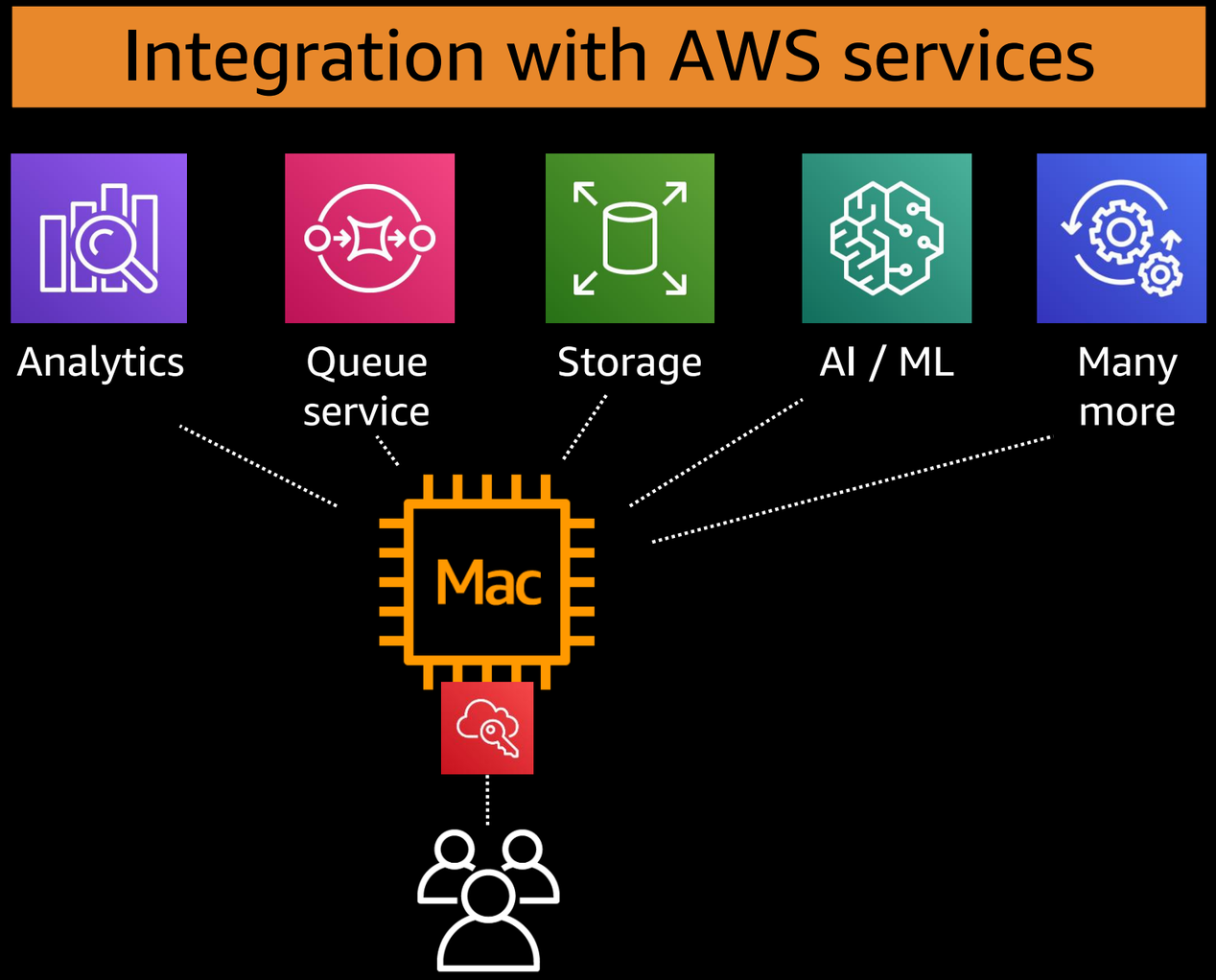
Built for the Apple developer community

- Build apps for Apple with the scalability, flexibility, and cost benefits of EC2
- Focus on code, not on managing infrastructure
- Unified DevOps pipelines across all platforms and environments
- Familiar integration with other AWS services and features

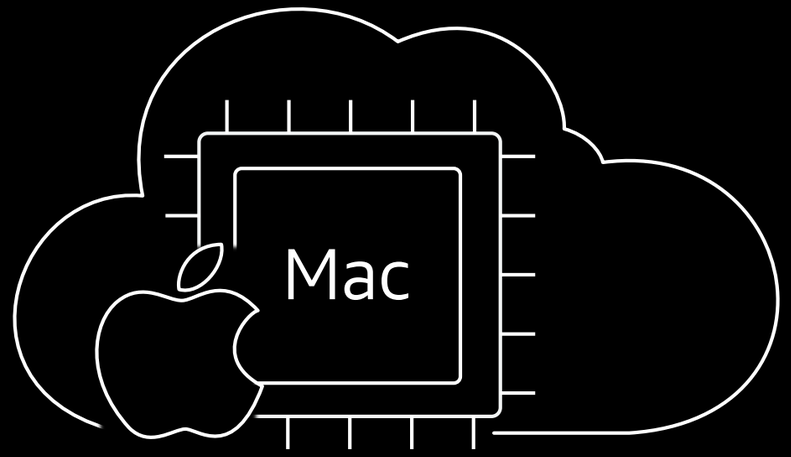


Amazon EC2 Mac Instances

- Scalability
- Reliability
- Security
- On-demand pricing
- Built on AWS Nitro System



Amazon EC2 Mac Instances: Hardware



Apple Mac mini computer

Intel Core i7
3.2 GHz (4.6 GHz turbo)

Built with AWS Nitro System

6 physical cores

12 logical cores

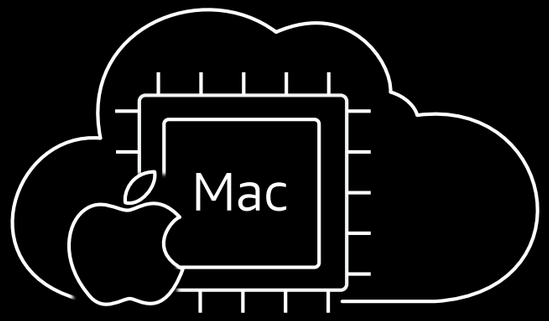
32 GB memory

10 Gbps network throughput

8 Gbps Amazon EBS bandwidth

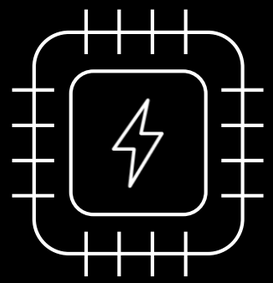
Amazon EC2 Mac Instances: Components

Apple hardware



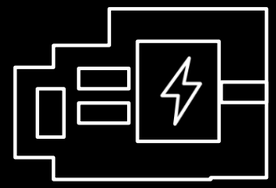
- Apple Mac mini (2018)
- macOS Catalina and macOS Mojave AMIs

Nitro Security Chip



Hardware root of trust

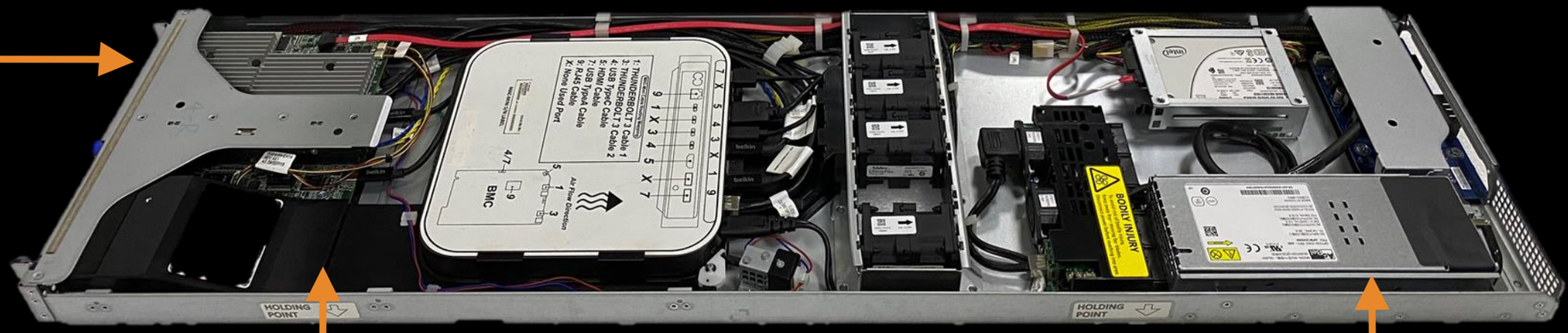
Nitro Card



- Amazon EBS
- Monitoring and performance

Exclusive purpose-built and modular building blocks

Amazon EC2 Mac Instance overview



Nitro I/O card

Custom BMC board with Nitro Security Chip

Mac mini sled

Power supply

"Apple's thriving community of more than 28 million developers continues to create groundbreaking app experiences that delight customers around the world. With the launch of EC2 Mac instances, we're thrilled to make development for Apple's platforms accessible in new ways, and combine the performance and reliability of our world-class hardware with the scalability of AWS."

Bob Borchers

VP of Product Marketing, Apple



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