
AWS
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CMP221

Modernize your iOS build pipelines with Amazon EC2 Mac Instances

Ravi Murty

Sr. Principal Engineer
EC2

Manish Rathaur

Principal Product Manager,
EC2

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Agenda

Overview of Amazon EC2 Mac instances

Customer use-cases and feedback

Technical deep dive

Whiteboard - best practices for managing EC2 Mac at scale

Next steps + survey link

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Innovating with Apple

Design → Code → Develop → Build → Test → Sign → Publish

Require Xcode, which is supported only on macOS

- 30+ million developers
- 2+ million apps
- 1+ billion active devices



Xcode

iOS Safari tvOS
iPadOS watchOS macOS

Bringing macOS to AWS meant bringing Apple Macs into our data centers

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EC2 Mac = Apple Mac meets AWS Nitro System



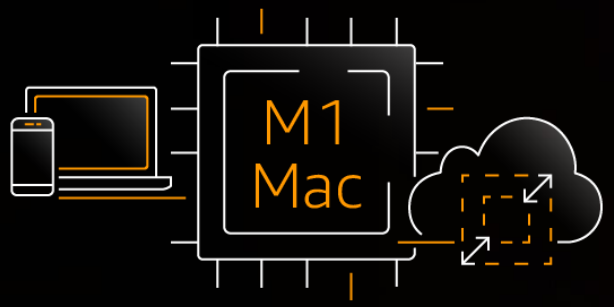
Only major cloud provider with on-demand Mac instances

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NEW

Amazon EC2 M1 Mac instances

On-demand Apple silicon macOS environments for the first time on AWS



Bare metal performance

Up to 60% better price performance compared to x86 Mac instances

Up to 4x better build performance, 3x increase in parallel builds, and 80% reduction in build failures compared to on-premise

Code, not infrastructure

Offload the heavy lifting that comes with managing Apple infrastructure to AWS

Provision macOS environments within minutes, dynamically scale as needed, and pay only for your usage

Modernize with AWS Services

Amazon S3

Amazon VPC

Amazon EBS

Amazon Machine Images

Amazon CloudWatch

AWS CloudFormation

AWS Secrets Manager

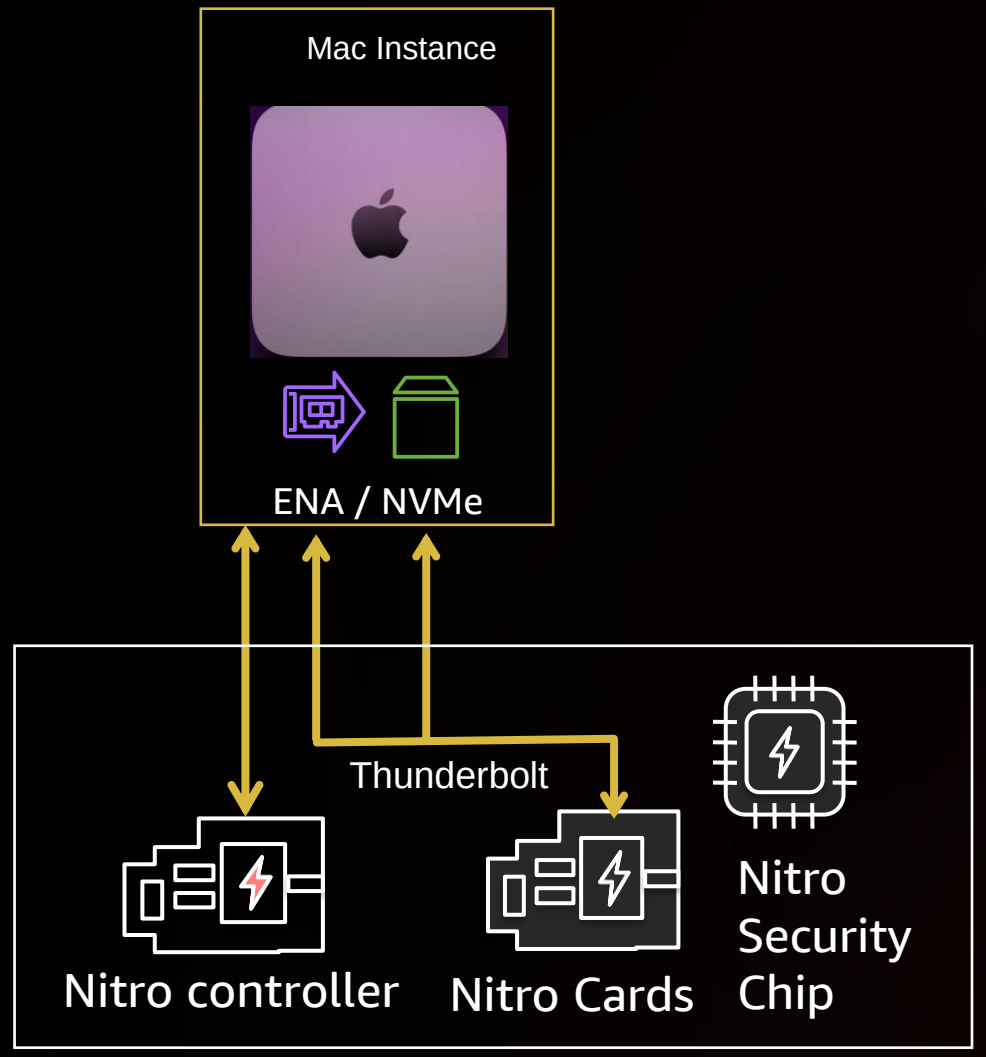
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Technical Deep Dive

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EC2 Mac Architecture



- Leverage EC2 bare metal capability
- EC2 customers benefit
  - Elasticity, security, reliability
  - macOS AMIs, EBS volume for boot
  - VPC SG, CloudWatch metrics

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Whiteboard

Best Practices for Managing EC2 Mac at Scale

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Thank you!

Ravi Murty
rmurty@amazon.com

Manish Rathaur
mrathaur@amazon.com



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