
AWS
re:Invent
NOV. 27 – DEC. 1, 2023 | LAS VEGAS, NV

CMP219-INT

Compute innovation for any application, anywhere

Dave Brown

Vice President, AWS Compute and Networking
Amazon Web Services

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Innovation that led to the cloud



World's first transistor, 1947

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Vision beyond numbers

ADA LOVELACE

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"The Analytical Engine has no pretensions whatever to originate anything. **It can do whatever we know how to order it to perform**."

ADA LOVELACE

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LLMs

Not just processing, but creating



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Amazon EC2

The innovation that started the cloud

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Reimagining the cloud



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SERVER

75%



25%

Hypervisor

Network

Storage

Security

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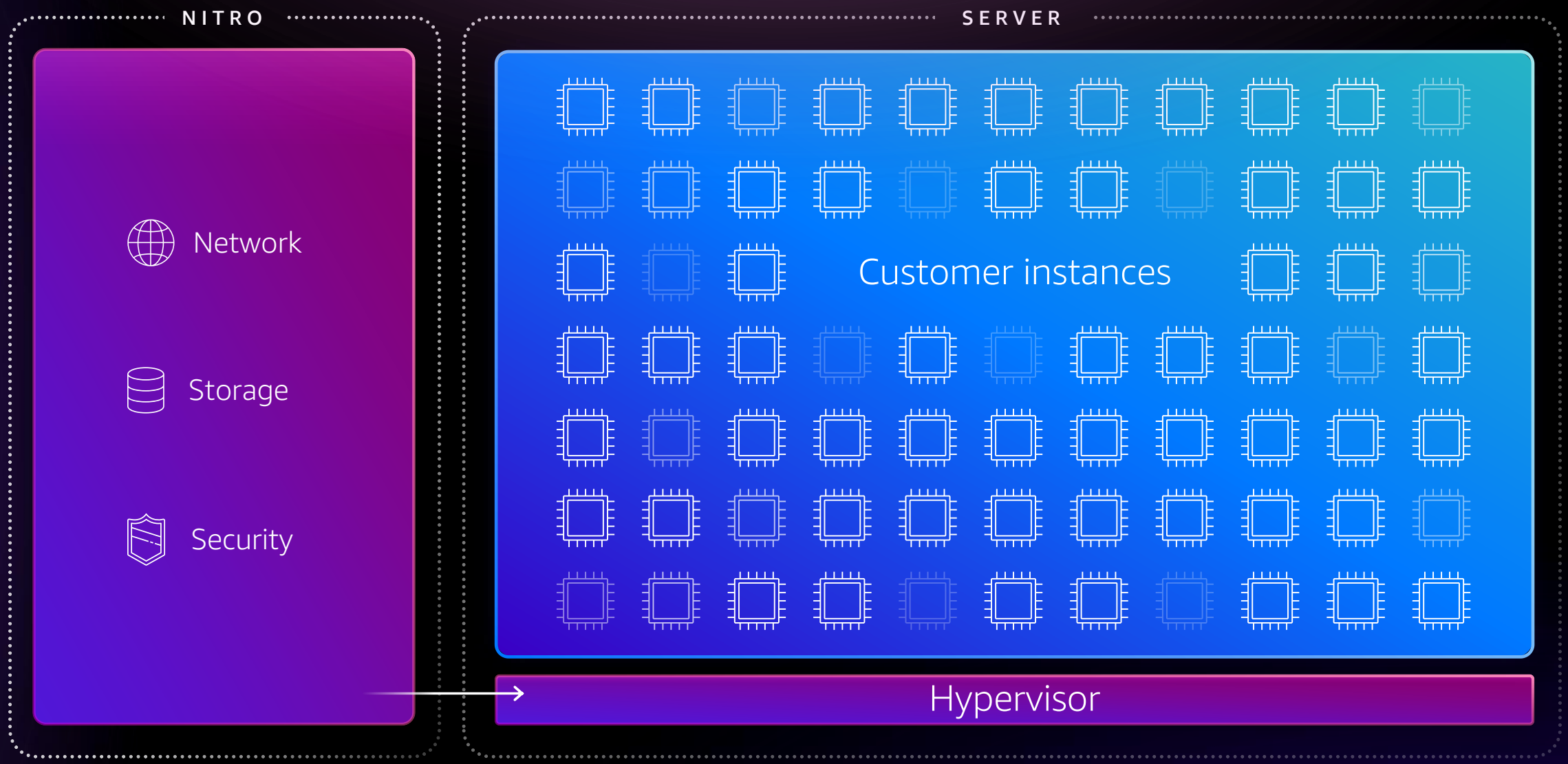

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Nitro timeline

Constantly improving performance



Nitro Generation	Nitro v1	Nitro v2	Nitro v3	Nitro v4	Nitro v5
EC2 Instance	C4	C5	C5n	C6in	C7gn
Bandwidth	10 Gbps	25 Gbps	100 Gbps	200 Gbps	200 Gbps
Packet Rate	1.2 Mpps	3 Mpps	9 Mpps	20 Mpps	30 Mpps

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AWS **Nitro**



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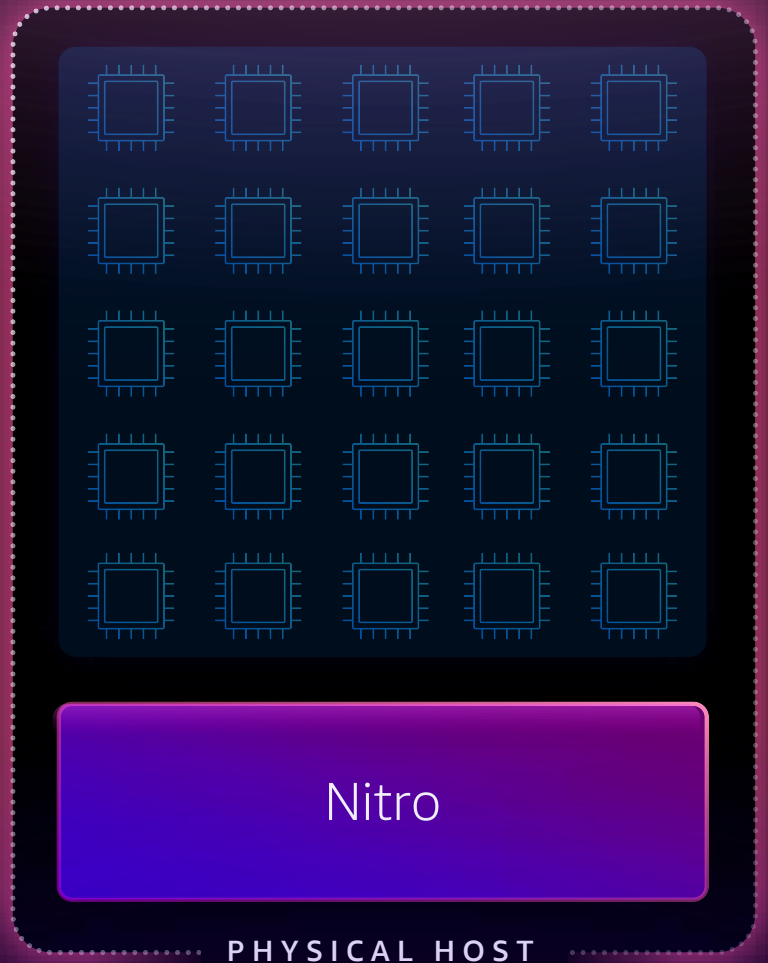

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Live migration



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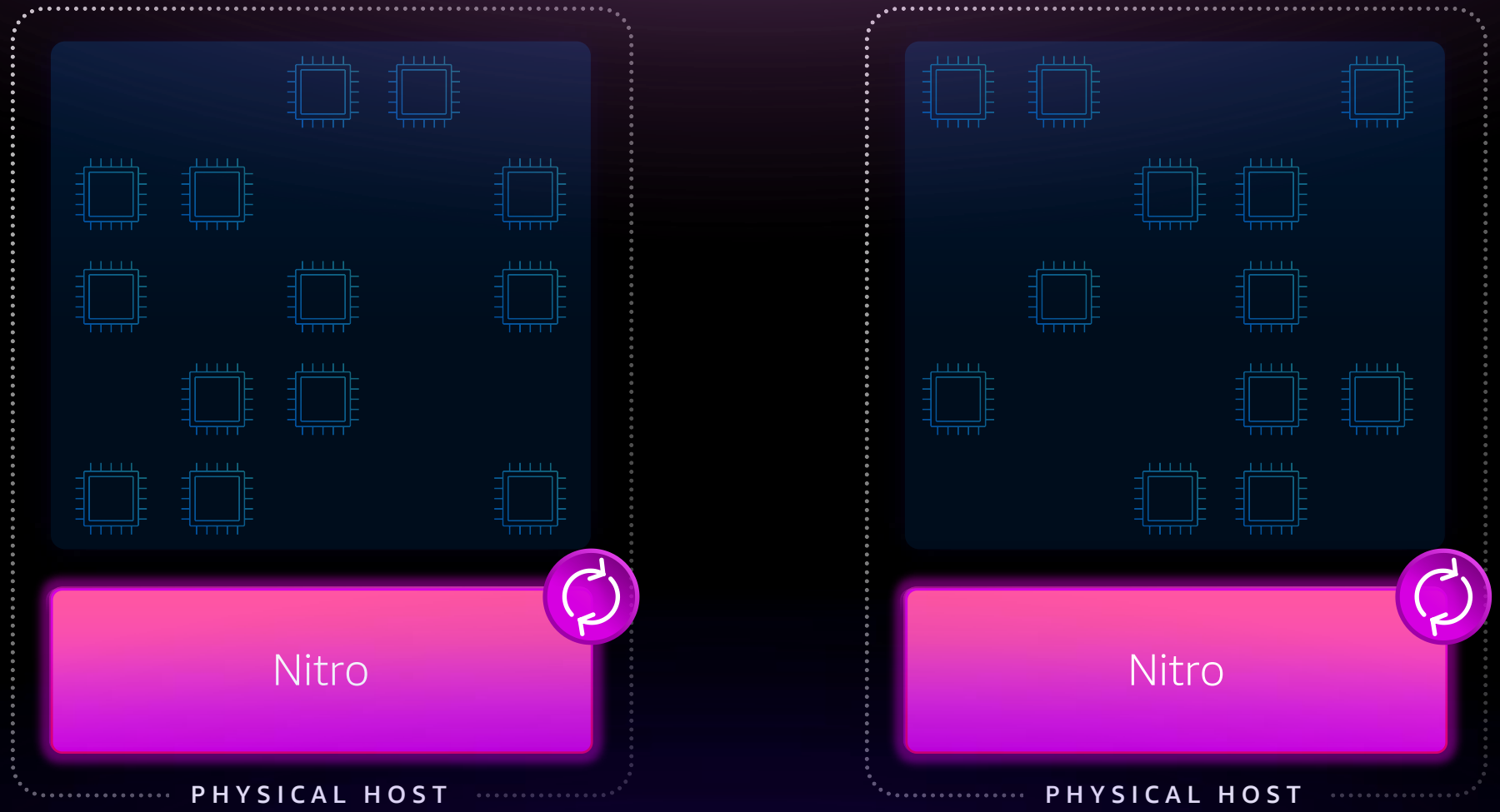
Live updates



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750+

Instance types
for virtually
every workload

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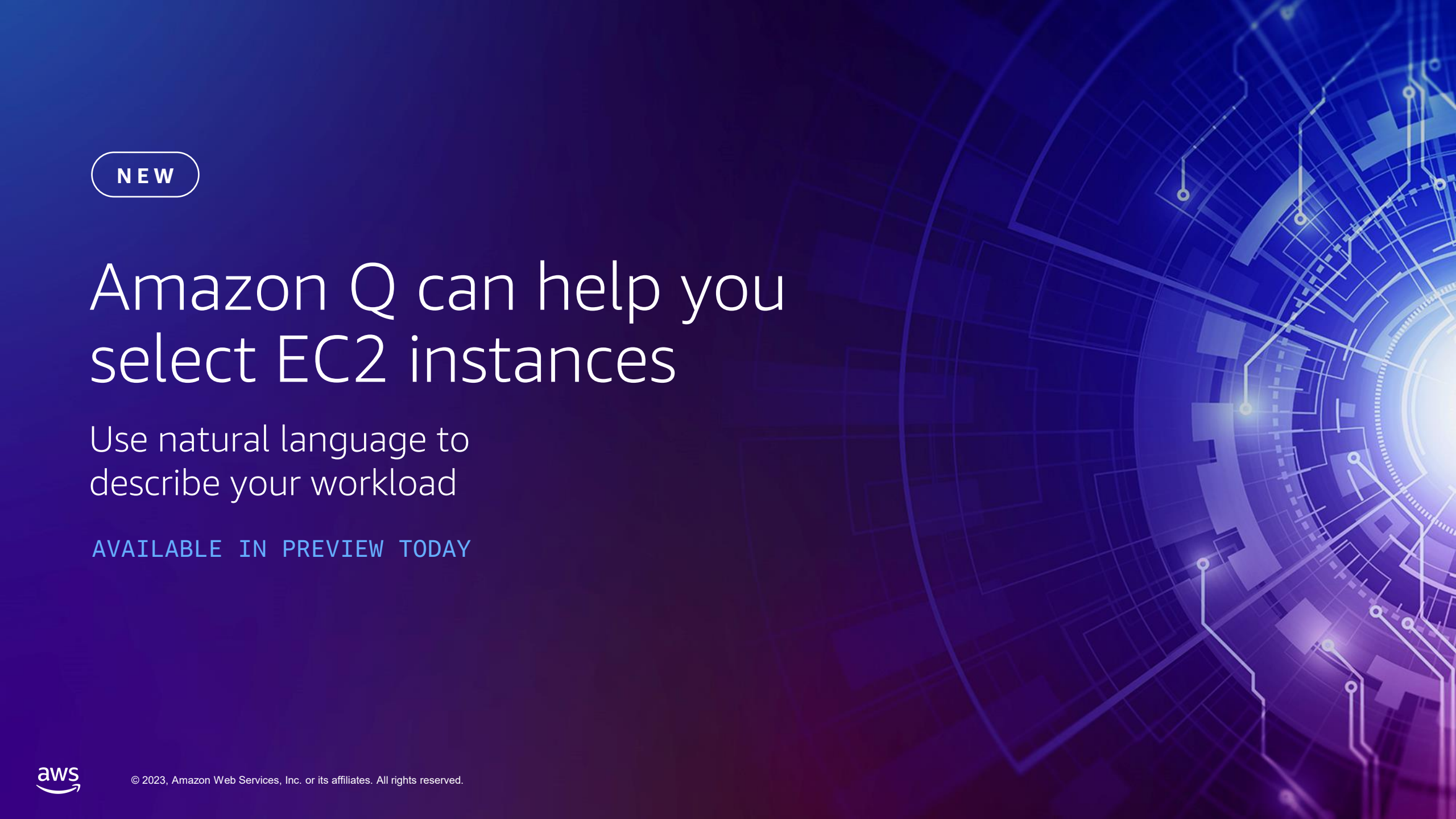
NEW

Amazon Q can help you select EC2 instances

Use natural language to describe your workload

AVAILABLE IN PREVIEW TODAY



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NEW

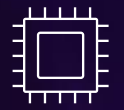
Amazon Q can help you select EC2 instances

Use natural language to describe your workload

AVAILABLE IN PREVIEW TODAY



GenAI analyzes workload requirements



Provides personalized instance suggestions

aws

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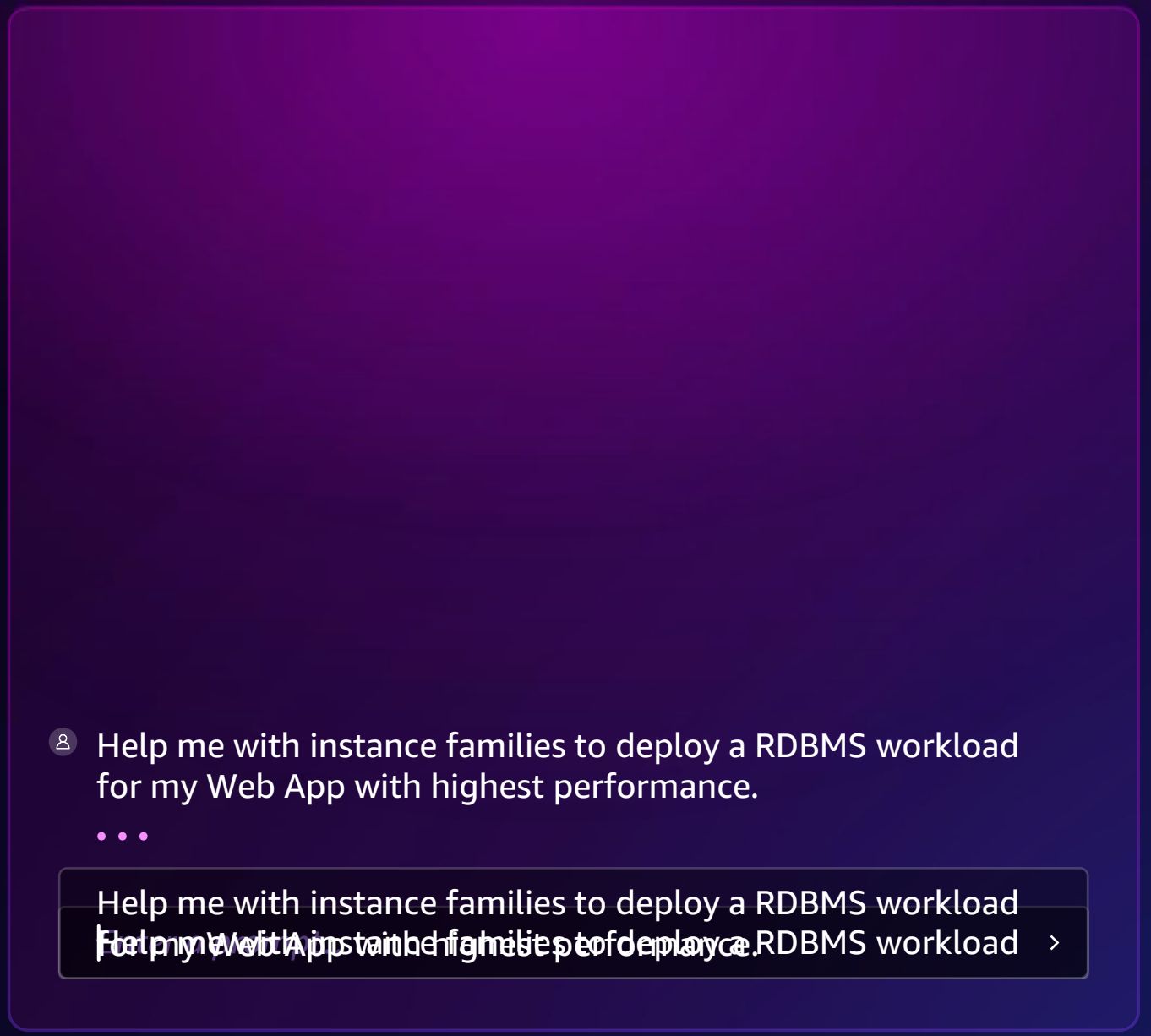
Amazon Q can help you select EC2 instances

AVAILABLE IN PREVIEW TODAY



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Amazon Q can help you select EC2 instances

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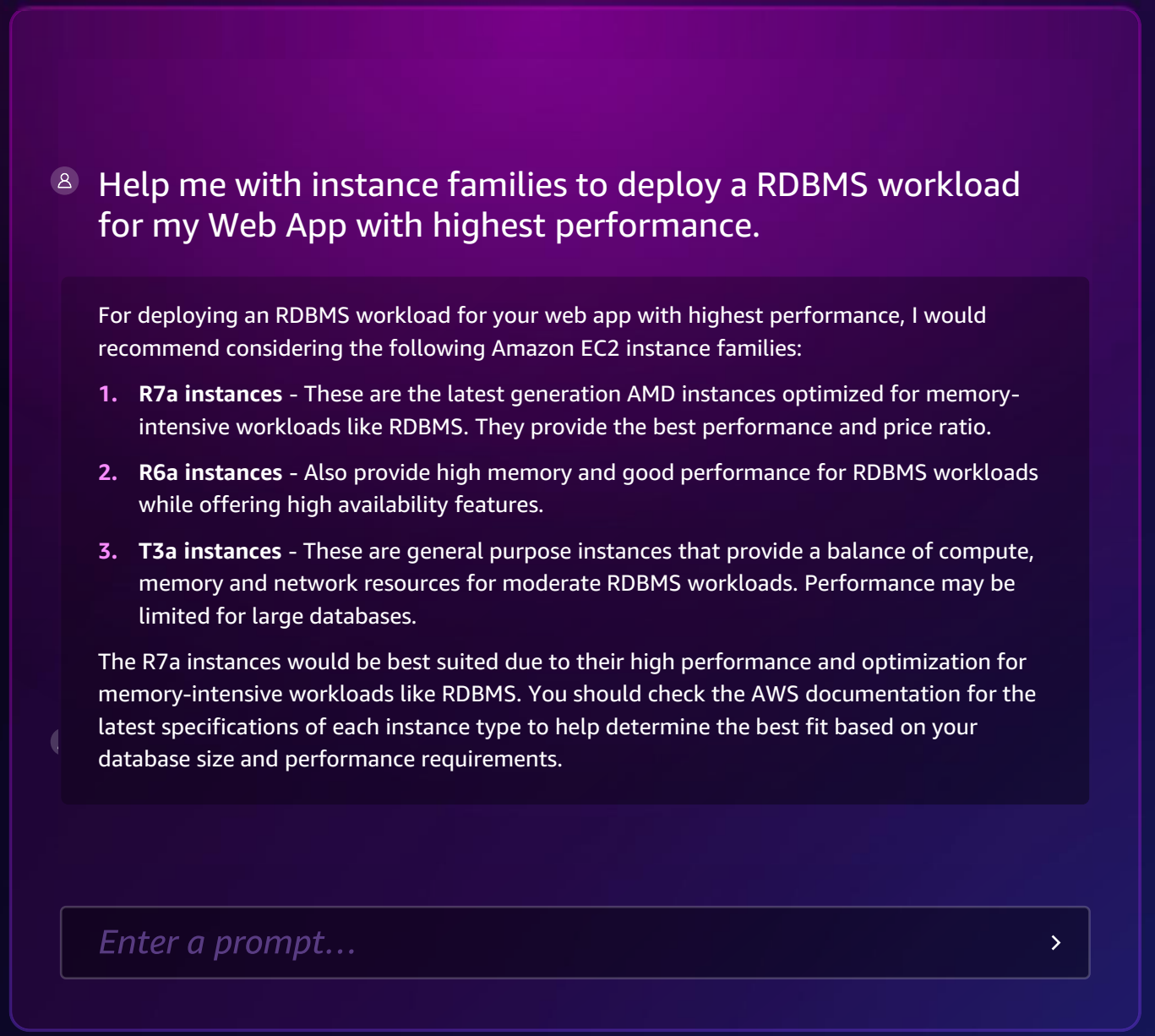

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Amazon Q can help you select EC2 instances

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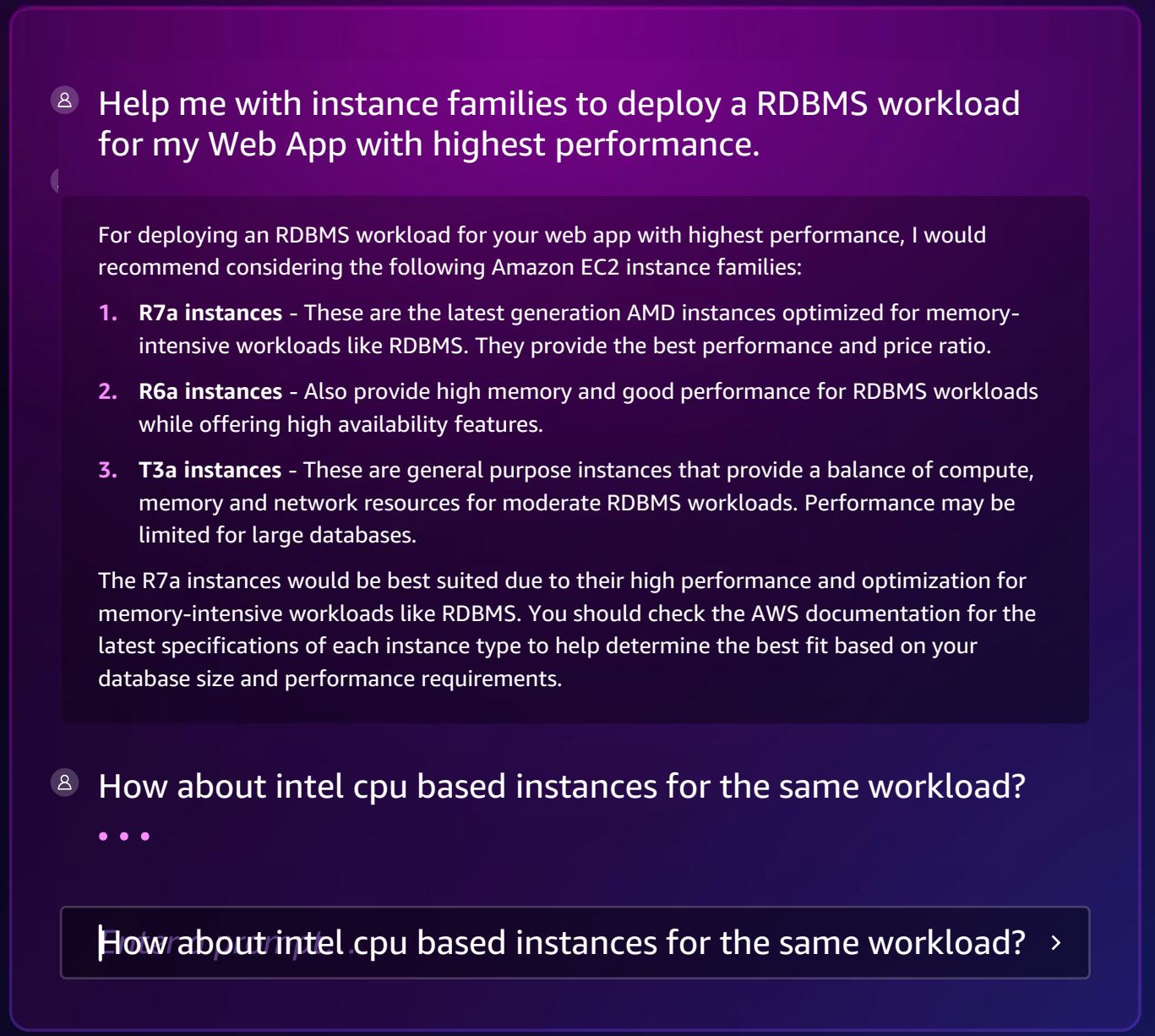

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Amazon Q can help you select EC2 instances

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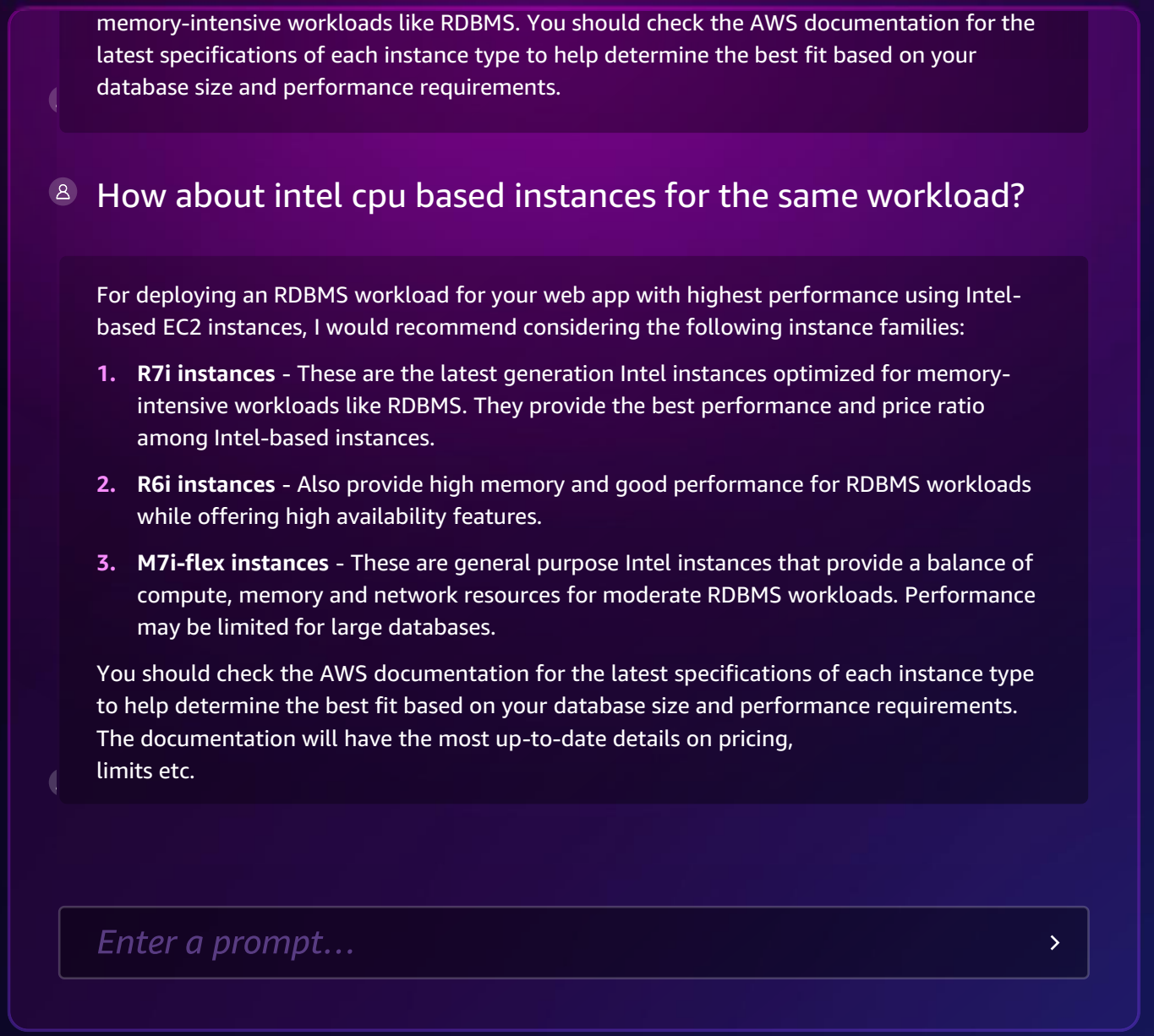

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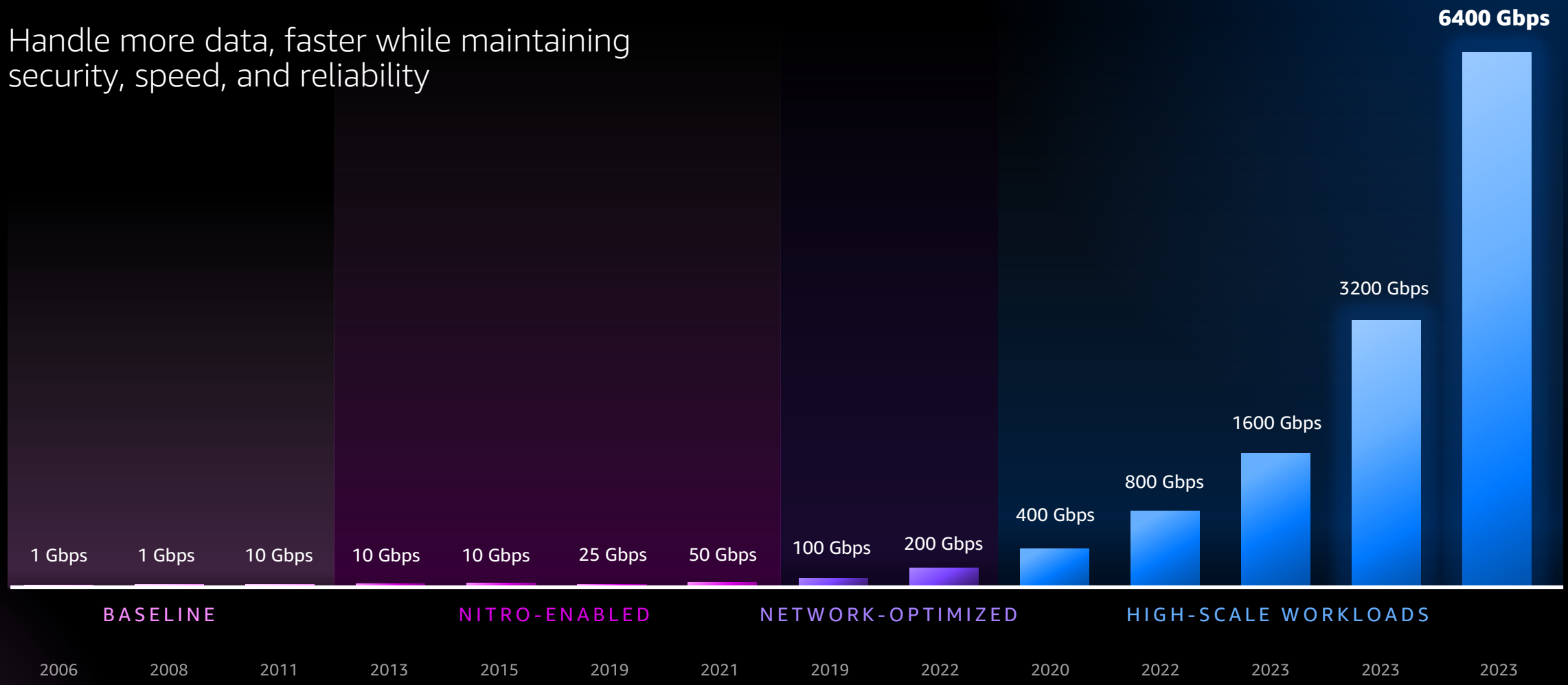
Network bandwidth

Handle more data, faster while maintaining security, speed, and reliability



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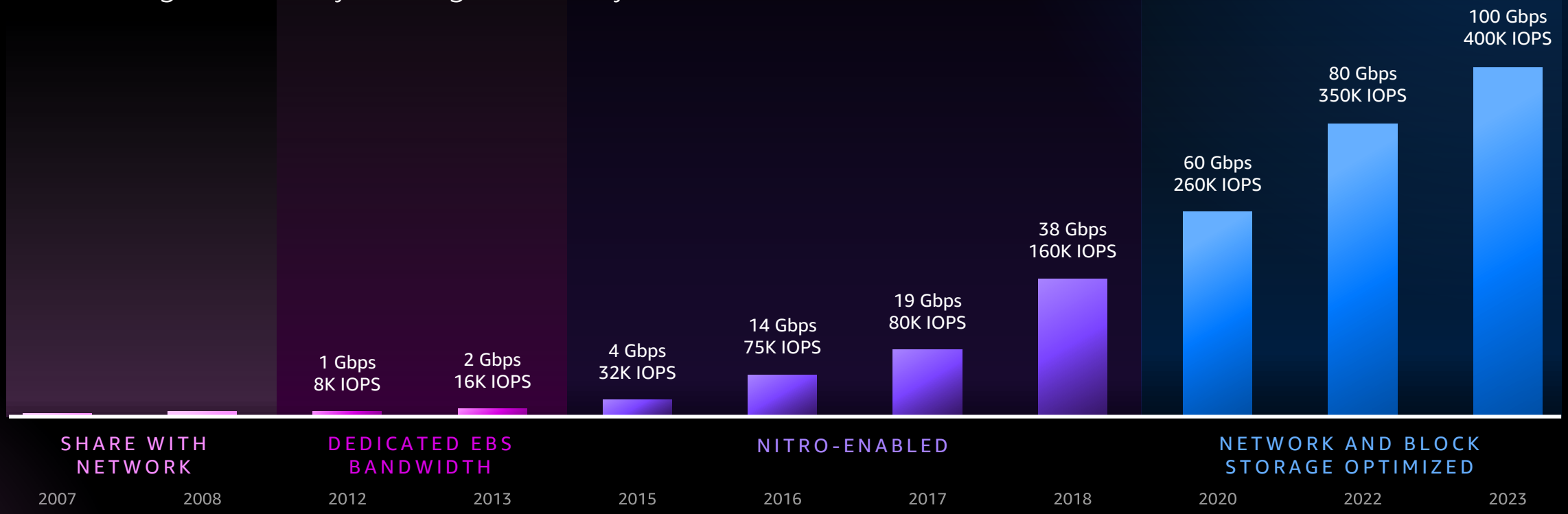
Instance Amazon EBS bandwidth and IOPS

Scale your most I/O intensive workloads while maintaining low latency and high durability



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NEW

ENHANCEMENTS IN NITRO SYSTEM

Higher EBS performance in EC2 C6in, M6in, & R6in instances

25%

increase in maximum EBS bandwidth, up to **100 Gbps**

10%+

increase in maximum EBS IOPS, achieving **400,000 IOPS**

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NEW

ALL EC2 NITRO INSTANCES NOW SUPPORT

EBS io2 Block Express Volumes

4X

higher max IOPS, throughput, and size than EBS io1 volumes

10X

lower outlier latency than EBS io1 volumes

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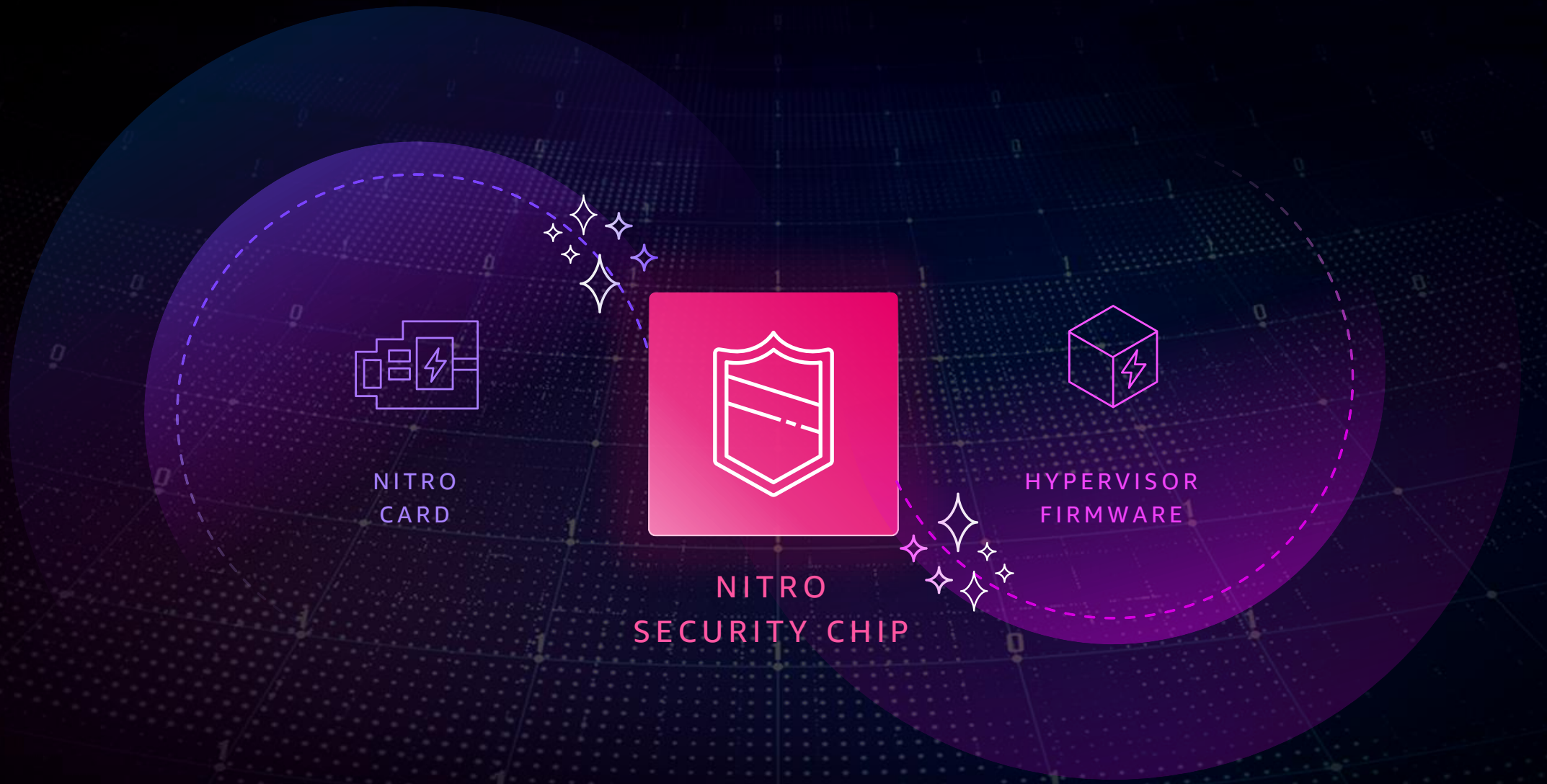

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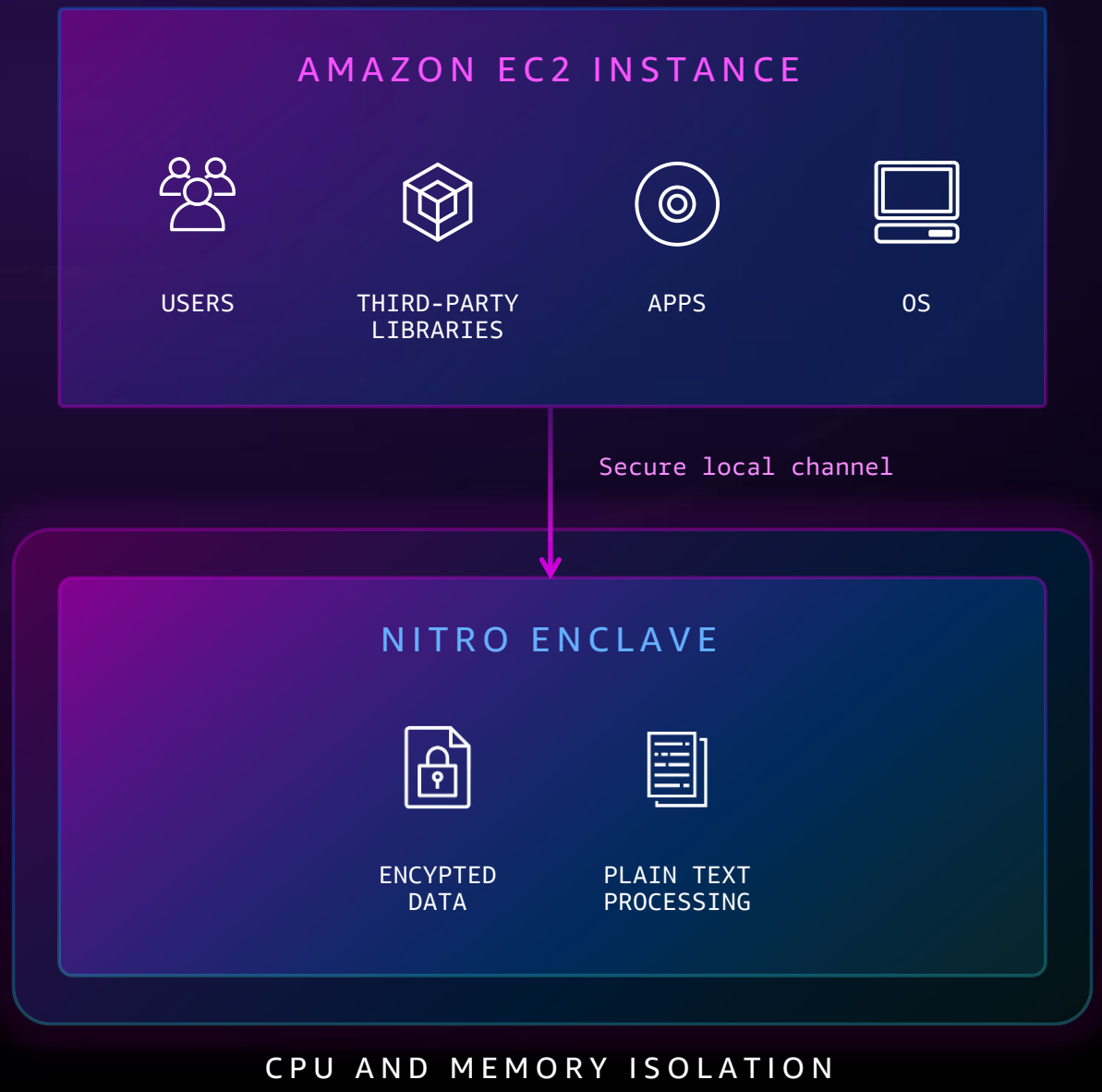
What is **AWS Nitro Enclaves?**

Nitro Enclaves provides additional isolation for data in use



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Itaú

"Nitro Enclaves has helped us create a safe environment for the manipulation of cryptographic keys of our crypto assets custody services, adding yet another layer of protection for processing data while reducing the attack surface at the same time…"

CARLOS EDUARDO MAZZEI, CHIEF TECHNOLOGY OFFICER, ITAÚ UNIBANCO

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"There is no compression algorithm for **experience**..."

ANDY JASSY, PRESIDENT AND CEO, AMAZON



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Graviton timeline

Constantly improving performance







Graviton Generation	Graviton1	Graviton2	Graviton3
Year	2018	2019	2021
Cores	16	64	64
Transistors	5 Billion	30 Billion	55 Billion

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GRAVITON3-BASED INSTANCES



NETWORK-
OPTIMIZED



HPC-
OPTIMIZED



GENERAL
PURPOSE



COMPUTE-
OPTIMIZED



MEMORY-
OPTIMIZED

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Intel Xeon
Scalable processors



AMD EPYC
processors



Apple
processors

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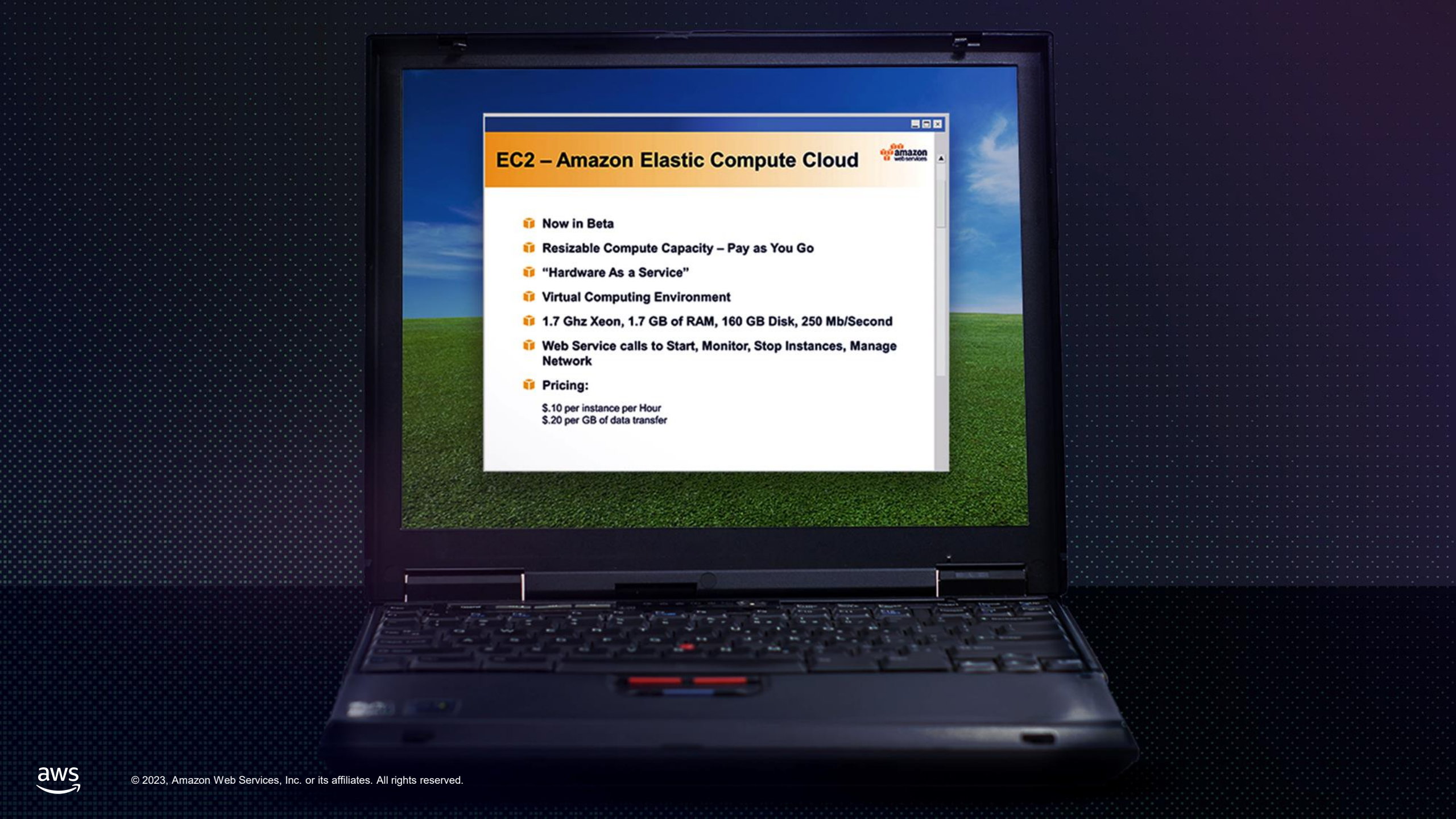

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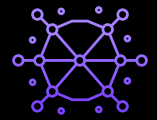
Innovating with Intel

17 YEARS OF COLLABORATION WITH AWS



COLLABORATION

Deep engineering collaboration across the AWS portfolio



INTEGRATION

Over 400 Amazon EC2 instances are powered by Intel processors



FASTEST

Fastest processor in the cloud and widest selection of Sapphire Rapids instances

RECENT INTEL-BASED INSTANCES

I4i	HPC6id	M7i	M7i-Flex	C7i	R7i	R7iz
STORAGE-OPTIMIZED	HPC-OPTIMIZED	GENERAL PURPOSE	COST-OPTIMIZED GENERAL PURPOSE	COMPUTE-OPTIMIZED	MEMORY-OPTIMIZED	HIGH-PERFORMANCE MEMORY OPTIMIZED

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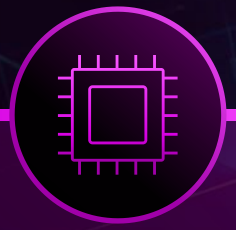
NEW

Amazon EC2 M7i-Flex instances

EASIEST WAY TO OPTIMIZE COSTS AND IMPROVE PRICE PERFORMANCE



CUSTOM INTEL CPUS

Custom Intel Sapphire Rapids CPUs that are available only on AWS

Offers up to 15% better performance than Intel processors utilized by other cloud providers



IMPROVED PRICE-PERFORMANCE

Up to 19% better price performance than M6i

Optimized to run common workloads including web servers, micro-services, and enterprise applications



EASY FIRST CHOICE

Available in the most common instance sizes up to 128GiB

Broadly available across AWS global regions

aws

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NEW

Amazon EC2
U7i instances

High memory instances powered by custom 4th generation Intel Xeon scalable processors

AVAILABLE IN PREVIEW TODAY



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NEW

Amazon EC2 U7i instances

High memory instances powered by custom 4th generation Intel Xeon scalable processors

AVAILABLE IN PREVIEW TODAY



Scale large, in-memory database workloads with up to 32TB of high-performance DDR5 memory



Offering 896 vCPUs, providing up to 130% more compute performance than U-1 instances



2.5x EBS Bandwidth compared to U-1 instances, enabling significantly faster load times

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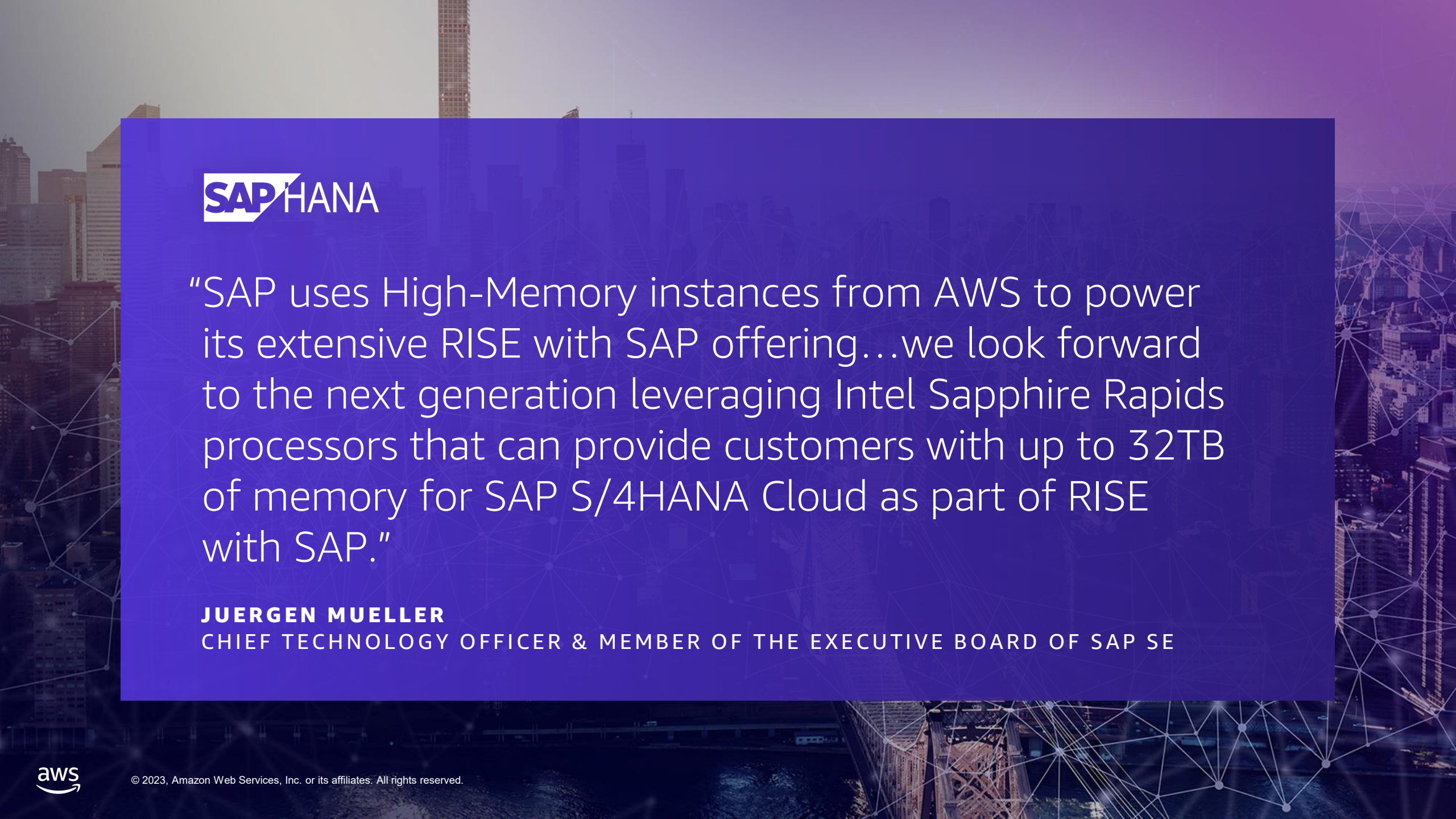

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Innovating with AMD



FLEXIBILITY

Help you optimize both cost and performance for your workloads



BETTER ECONOMICS

Deliver lower total cost of ownership versus comparable instances



SEAMLESS INTEGRATION

Easily migrate applications to the new AMD-based variants with little to no modification

AMD-BASED INSTANCES

G4ad	HPC7a	M7a	C7a	R7a
GPU-OPTIMIZED	HPC-OPTIMIZED	GENERAL PURPOSE	COMPUTE-OPTIMIZED	MEMORY-OPTIMIZED

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NEW

Amazon EC2 7th generation AMD-based instances

GENERAL PURPOSE INSTANCES POWERED BY 4TH GENERATION AMD EPYC PROCESSORS



HIGH PERFORMANCE

First EC2 instance powered by 4th generation AMD EPYC processors supporting a max frequency of 3.7 GHz

Up to 50% better compute performance vs. previous generation AMD instances



LOWER TCO

Deliver significant price performance improvement over M6a instances



SUPPORT FOR VARIETY OF WORKLOADS

M7a instances offer new capabilities including AVX3-512, VNNI, and BFloat16, which enable support for more workloads

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NETFLIX

"Benchmarking our API proxy endpoints, the front door of the Netflix service stack on M7a instances showed a 40% throughput improvement, 50% reduction latency and 16% reduction in concurrent GC pauses over existing instances."

NIALL MULLEN, DIRECTOR CLOUD ENGINEERING, NETFLIX

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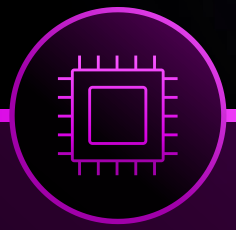
NEW

Amazon EC2 Mac instances

ON-DEMAND APPLE SILICON MACOS ENVIRONMENTS FOR THE FIRST TIME ON AWS



POWERED BY APPLE SILICON

Apple chips integrate the CPU, GPU, neural engine, I/O, and so much more onto a single tiny chip



IMPROVED PERFORMANCE

Up to 4x better build performance compared to on premises and up to 60% better price performance compared to x86 Mac instances



HARNESS THE CLOUD

Provision macOS environments within minutes and only pay for what you use; offload the heavy lifting that comes with managing infrastructure onto AWS

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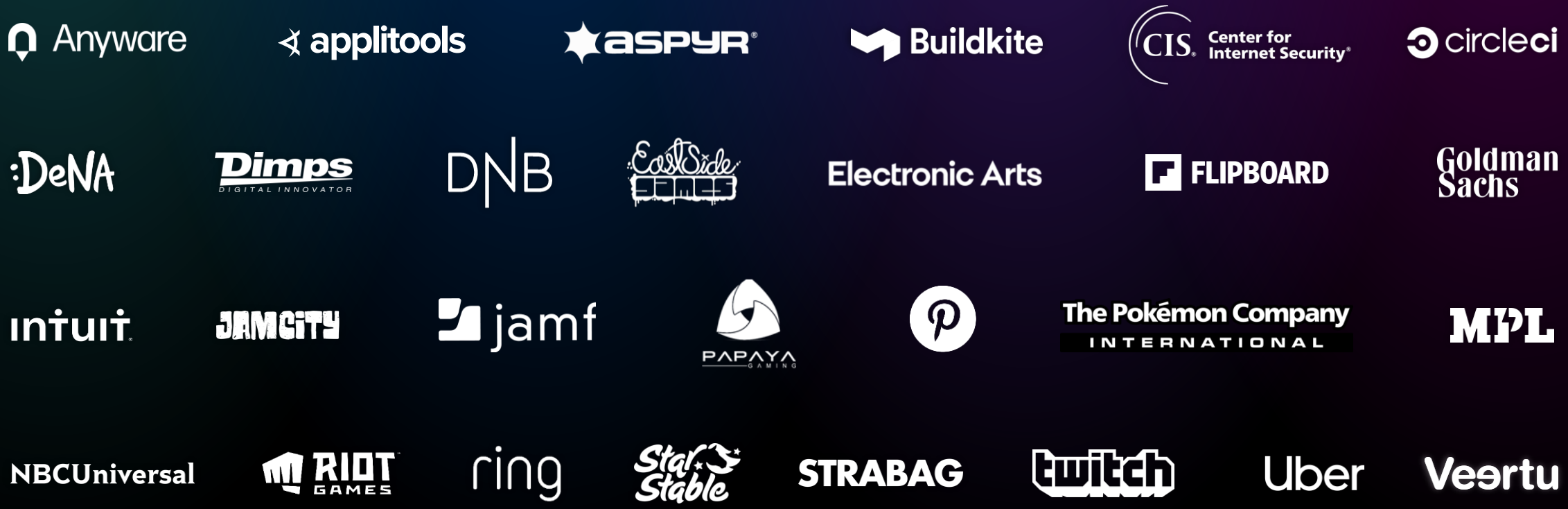

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Holly Mesrobian

VP of Serverless Compute AWS

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Innovation and Agility

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Pioneering Serverless

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AWS Lambda Preview	Amazon ECS GA AWS Lambda GA	ECS Service Auto Scaling	Lambda@Edge	AWS SAM implementation open source	Amazon EventBridge	Lambda Amazon EFS support	AWS Step Functions Workflow Studio	Lambda Function URLs	Application Composer
	AWS Lambda supports Java	Lambda Node.js support	AWS SAM Local	Firecracker	ECS Deployment Circuit Breaker	ECS and EFS Integration	AWS SAM Accelerate	EventBridge Scheduler	Fargate Larger Task Size Support
	AWS Lambda supports Python, 5-minute functions	AWS SAM	ECS GPU Support	Amazon SQS as an event source	Lambda destinations	IAM condition keys	Event filtering	Telemetry API	SOCI for ECS
		AWS Step Functions	AWS Fargate GA	ECS FireLens Support	Lambda Provisioned Concurrency	Fargate Spot		ECS Service Connect	
						Graviton support for Lambda and Fargate		**Lambda SnapStart**	
								Amazon EventBridge Pipes	
								Step Functions Distributed Map	

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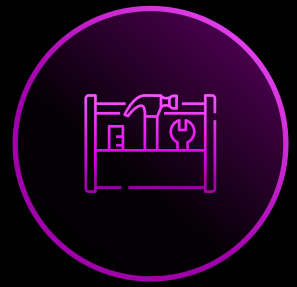
2018 2019 2020 2021 2022 2023

TECHNOLOGY FOUNDATION OF LAMBDA

Firecracker

Secure and fast microVMs for serverless computing



BETTER RESOURCE UTILIZATION



SECURITY AND ISOLATION



FASTER STARTUP TIMES

aws

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2022 2023

Lambda SnapStart

Improves cold starts for Java-based functions



LEVERAGES FIRECRACKER TECHNOLOGY



FUNCTIONS START 10X FASTER



NO CHANGES TO YOUR CODE

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2020 2021 2022 2023

Serverless on Graviton

Graviton support for Lambda and Fargate



AWS LAMBDA

UP TO

34%

better price performance*

*when you run your functions on Arm



AWS FARGATE

UP TO

40%

better price performance*

*for your Serverless Containers

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2020 2021 2022 2023

MODERN ARCHITECTURES ARE
SMALL PIECES, LOOSELY JOINED



Serverless

Serverless accelerates path to production

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2022 2023

Amazon EventBridge

For event-driven applications



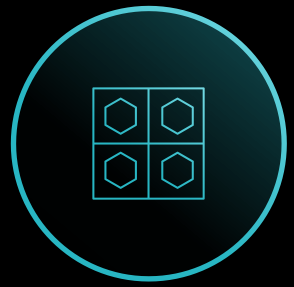
EVENT BUSES



PIPES



SCHEDULER



SCHEMA REGISTRY

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2022 2023

Amazon EventBridge

For event-driven applications



EVENT BUSES



PIPES



SCHEDULER



SCHEMA REGISTRY

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2022 2023

Amazon EventBridge

For event-driven applications



PIPES

Create point-to-point integrations between event producers and consumers

Optional transform, filter or enrich the ‘event’ being transported

Reduce the amount of integration “glue” code you need to write and maintain

aws

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Seekable Open Container Initiative (SOCI) support for Fargate

For faster container launches



SOCI, a technology open sourced by AWS, speeds containers launch



Creates an index of the files in an existing container image



Index extracts an individual file from a container image before downloading the entire archive

aws

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Amazon Elastic Kubernetes Service (EKS)



SECURITY FIRST



BUILT FOR PRODUCTION



SEAMLESS CLOUD INTEGRATIONS



NATIVE AND UPSTREAM



COMMITED TO OPEN SOURCE

aws

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More customers run **Kubernetes** workloads on AWS than anywhere else

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Cost-efficient compute for EKS



Karpenter

Karpenter is an **intelligent, Open source and high-performance** Kubernetes compute provisioning and management solution

Karpenter lets you take **full advantage of AWS** with its deep integration between Kubernetes and Amazon EC2

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Why Karpenter?



Karpenter



Kubernetes-native CRDs and opinionated defaults **minimize operational overhead**



Responds in seconds when application load changes **improve availability**



Intelligently chooses instance types and consolidates pods to **lower compute costs**

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Karpenter donated to Autoscaling SIG

GITHUB

CLOUD NATIVE COMPUTING FOUNDATION

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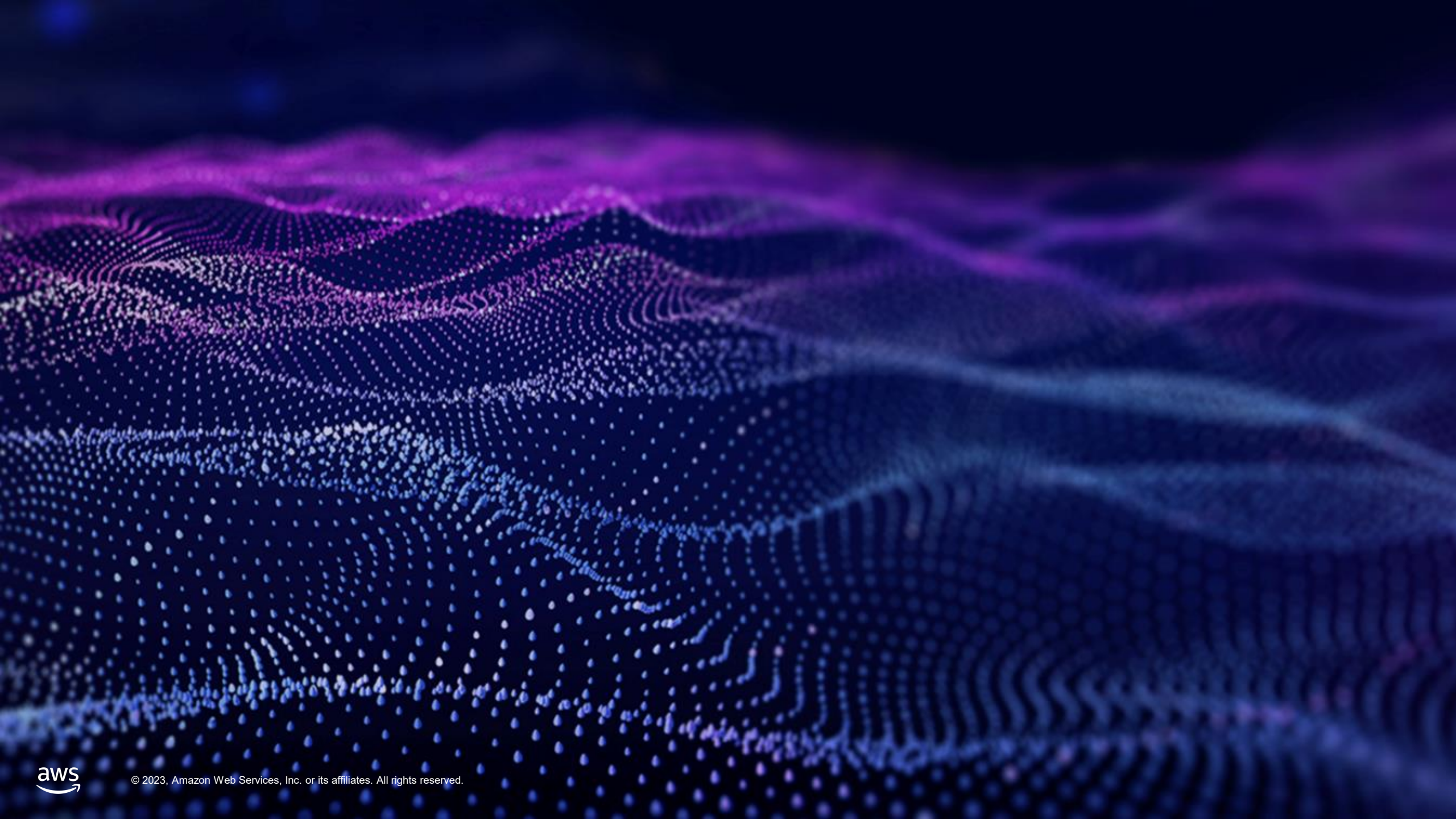

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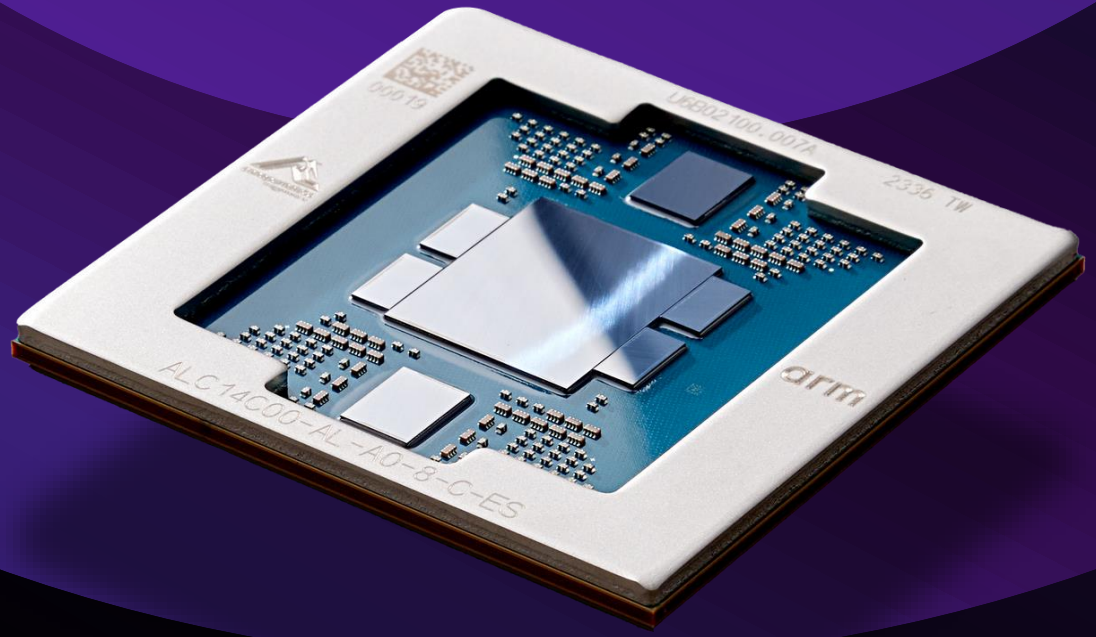
NEW

AWS Graviton4

4X THE PERFORMANCE IN FOUR GENERATIONS



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Benchmarks are not real workloads

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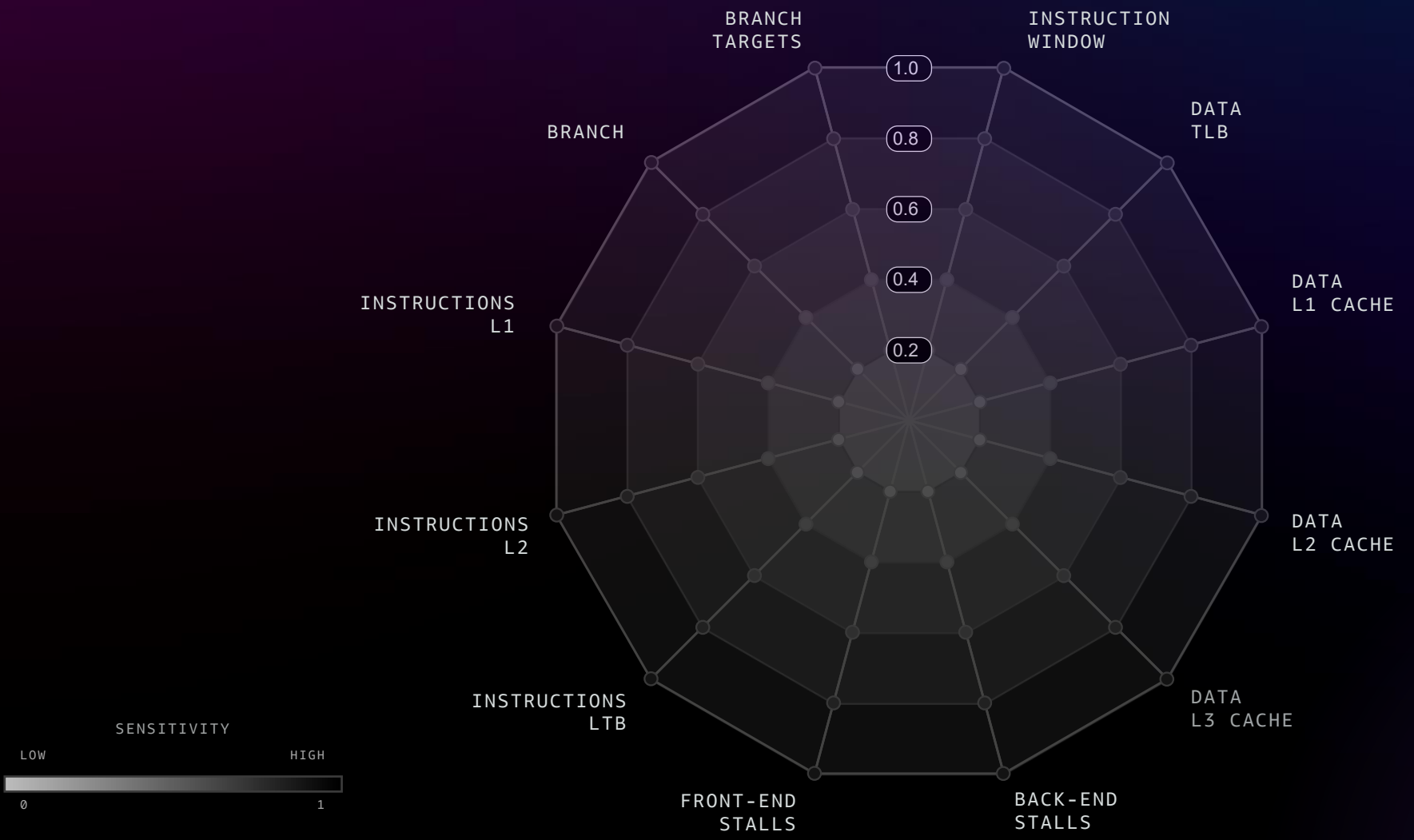
Visualizing chip performance



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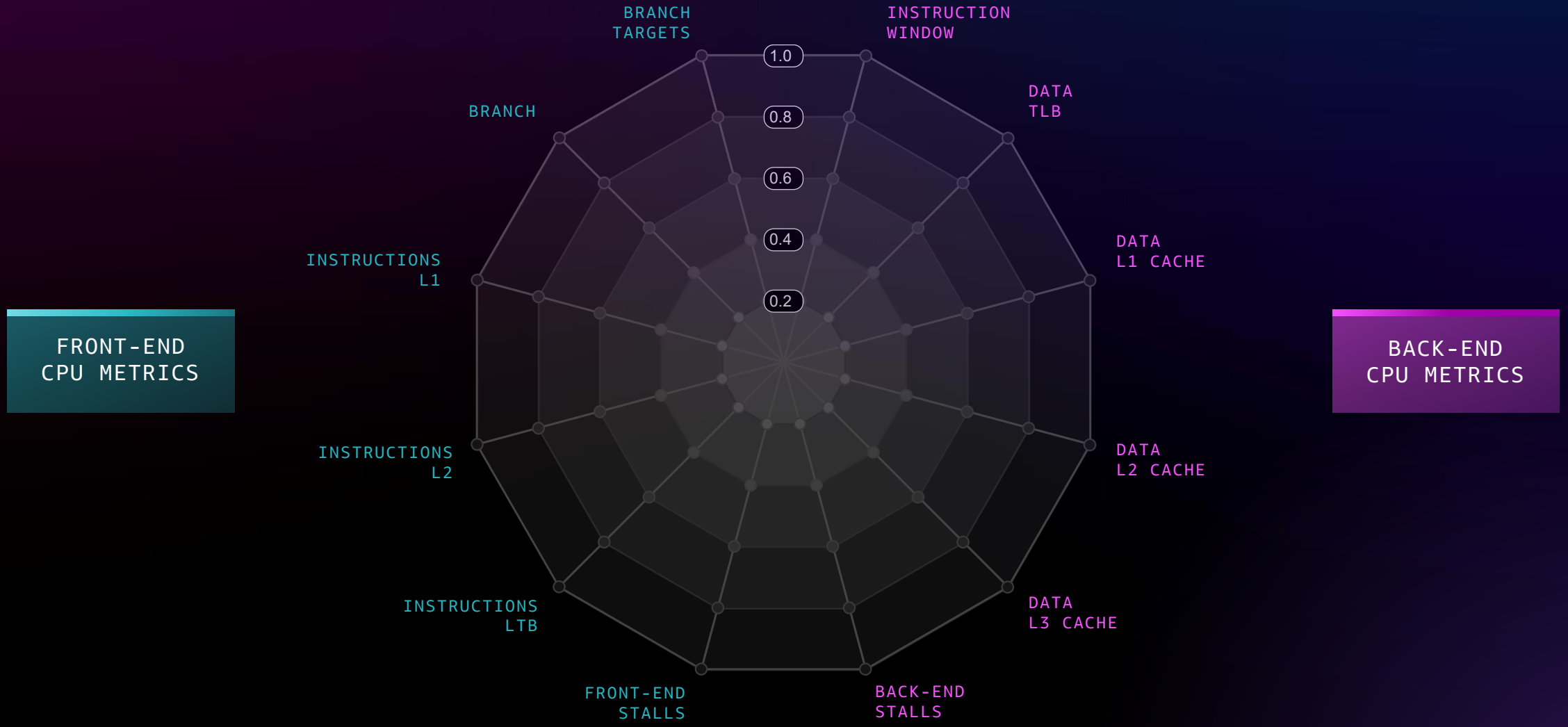
Visualizing chip performance



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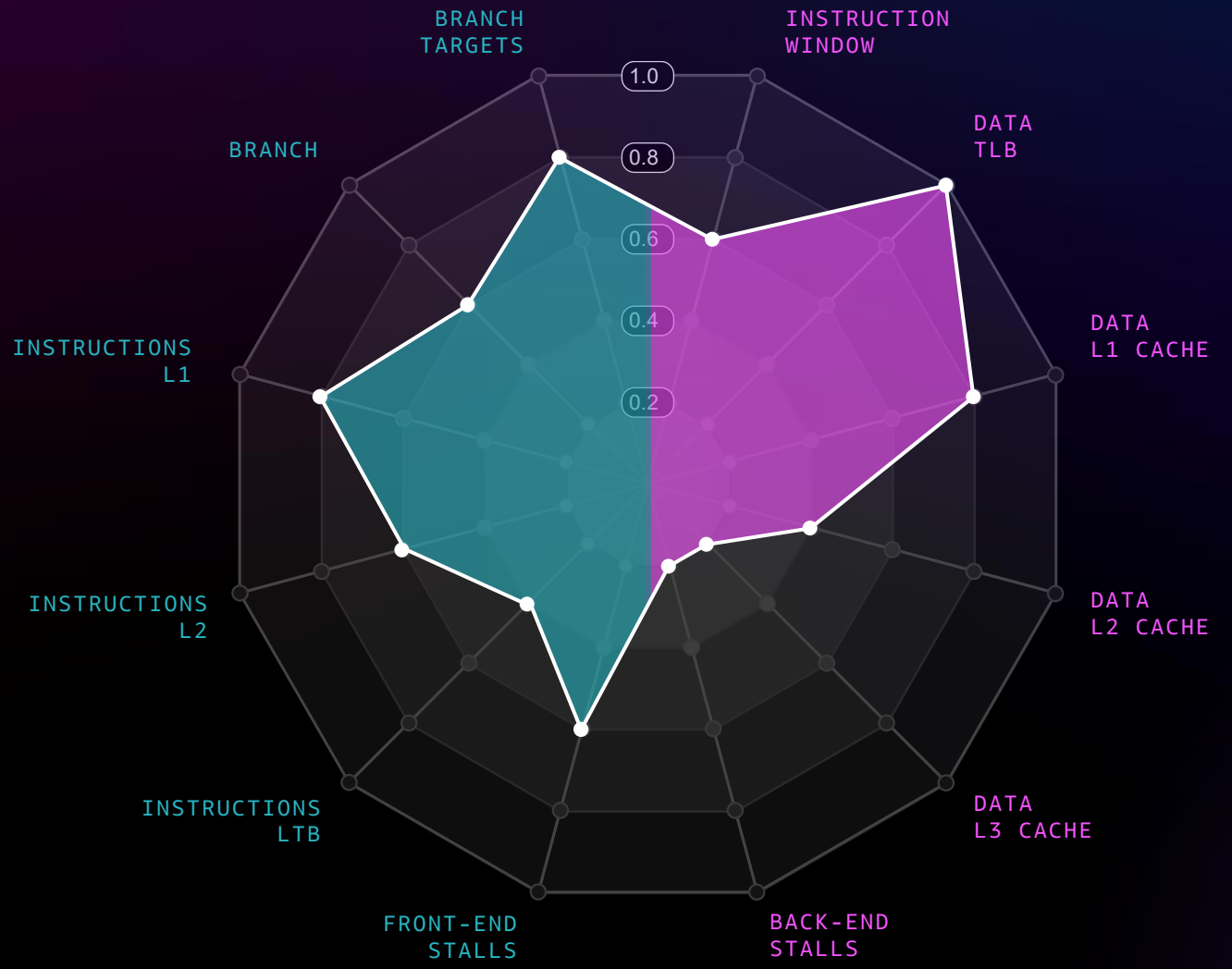
Visualizing chip performance



FRONT-END CPU METRICS

BACK-END CPU METRICS

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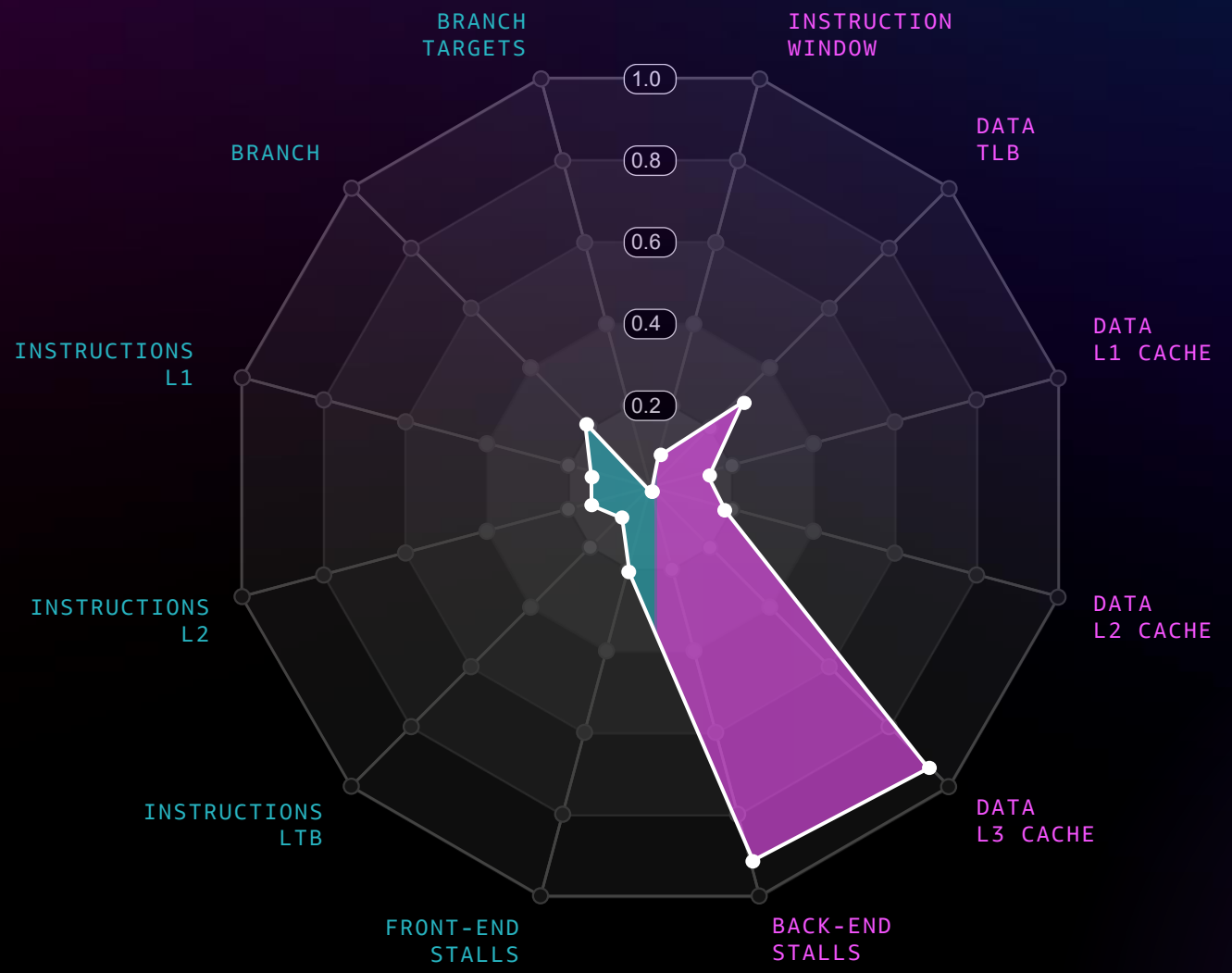
TRADITIONAL BENCHMARKS

FRONT-END CPU METRICS



BACK-END CPU METRICS

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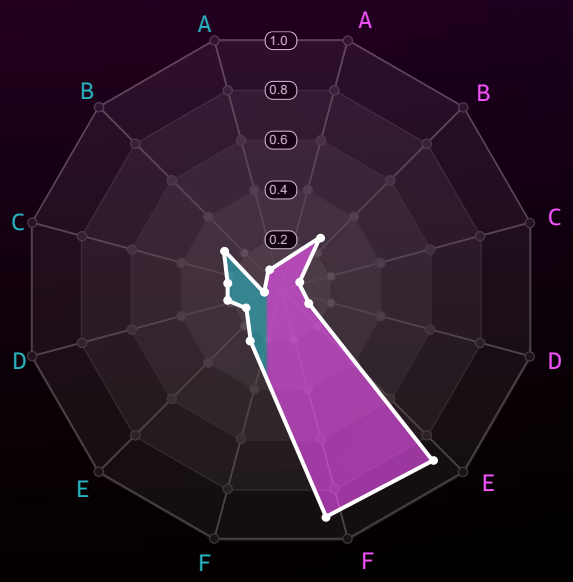
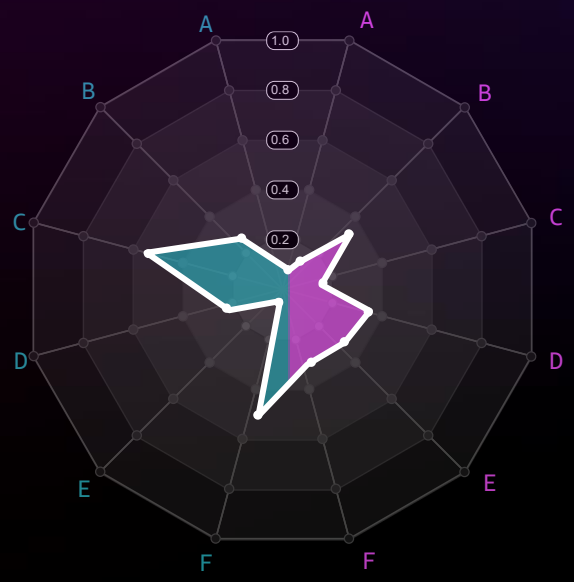
MICROBENCHMARKS
[BACKEND SKEW]

TRADITIONAL BENCHMARKS

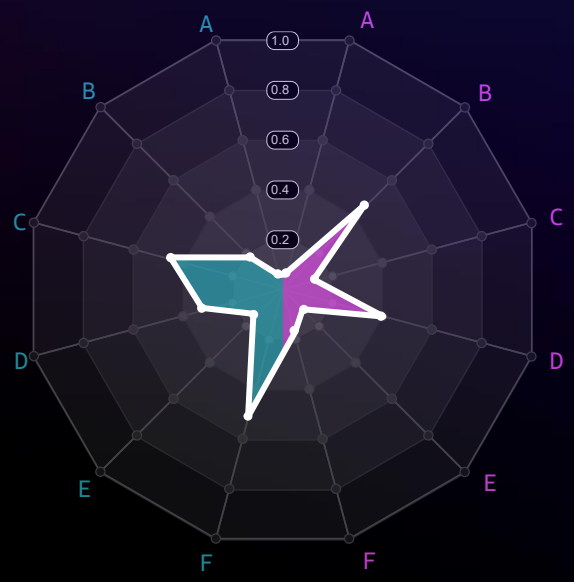


REAL WORKLOADS
[FRONTEND / BACKEND]

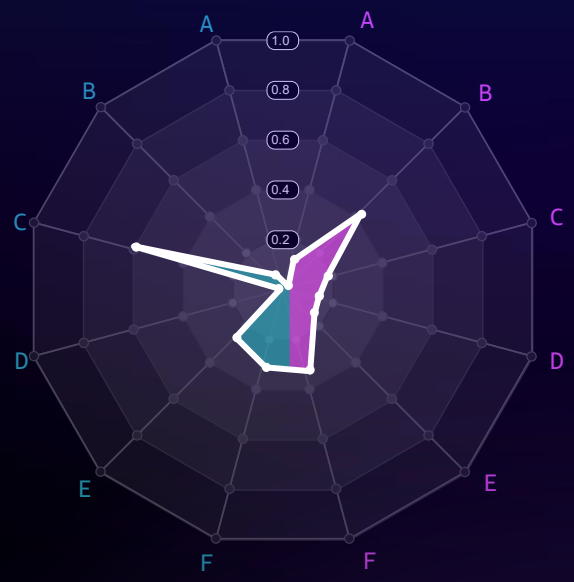
CASSANDRA



GROOVY



NGINX



FRONT-END CPU METRICS

A – BRANCH TARGETS
B – BRANCH
C – INST L1
D – INST L2
E – INST LTB
F – FRONT-END STALLS

BACK-END CPU METRICS

A - INST WINDOW
B – DATA TLB
C – DATA L1 CACHE
D – DATA L2 CACHE
E – DATA L3 CACHE
F – BACK-END STALLS

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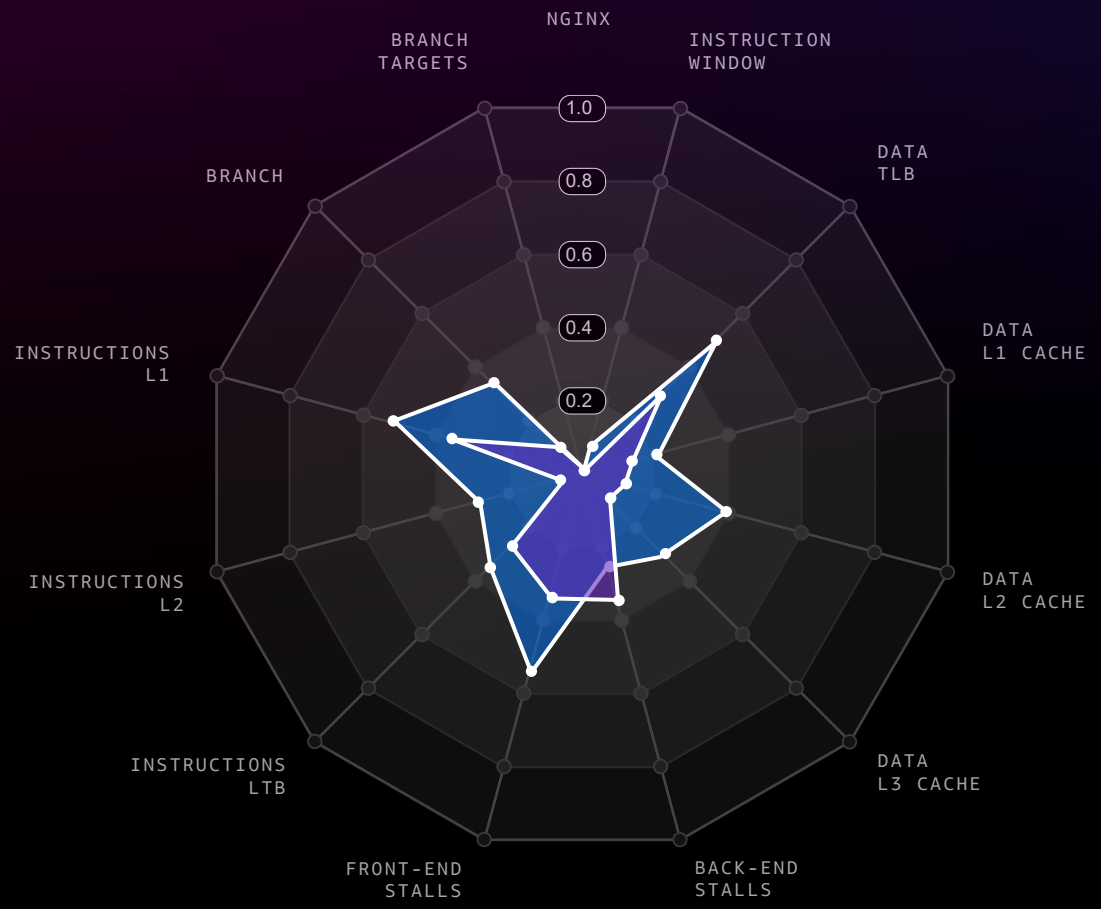
Real workloads on Graviton



+40%

MySQL Performance

Lower sensitivity across a number of dimensions

GRAVITON3

GRAVITON4

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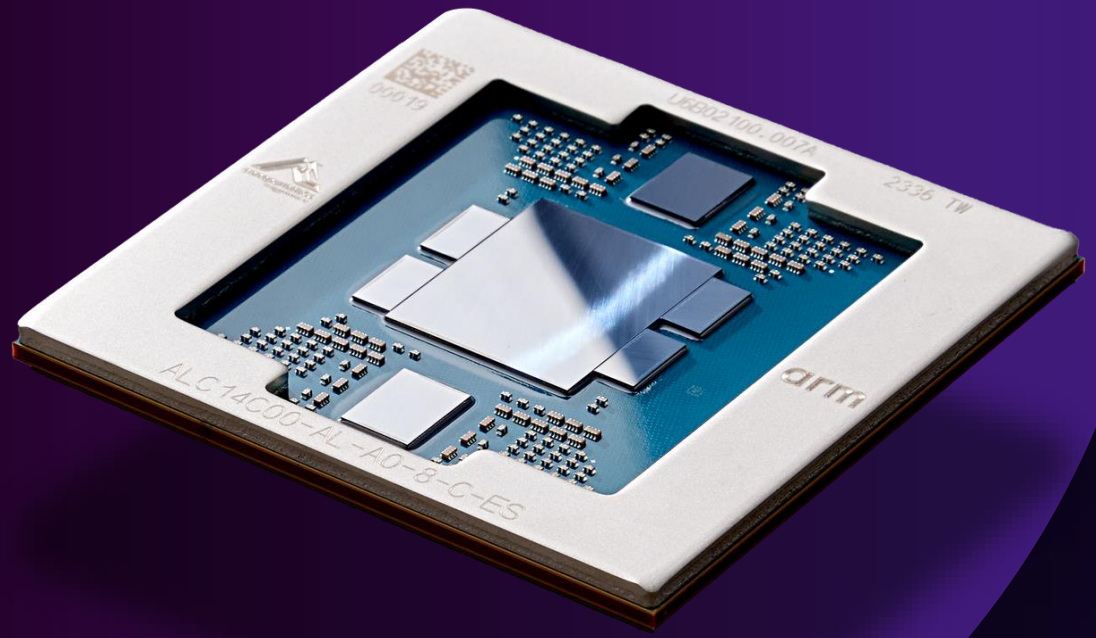
NEW

AWS Graviton4

CUSTOM PROCESSORS FROM ANNAPURNA LABS



50%
more cores

2x
L2 cache

75%
more memory bandwidth

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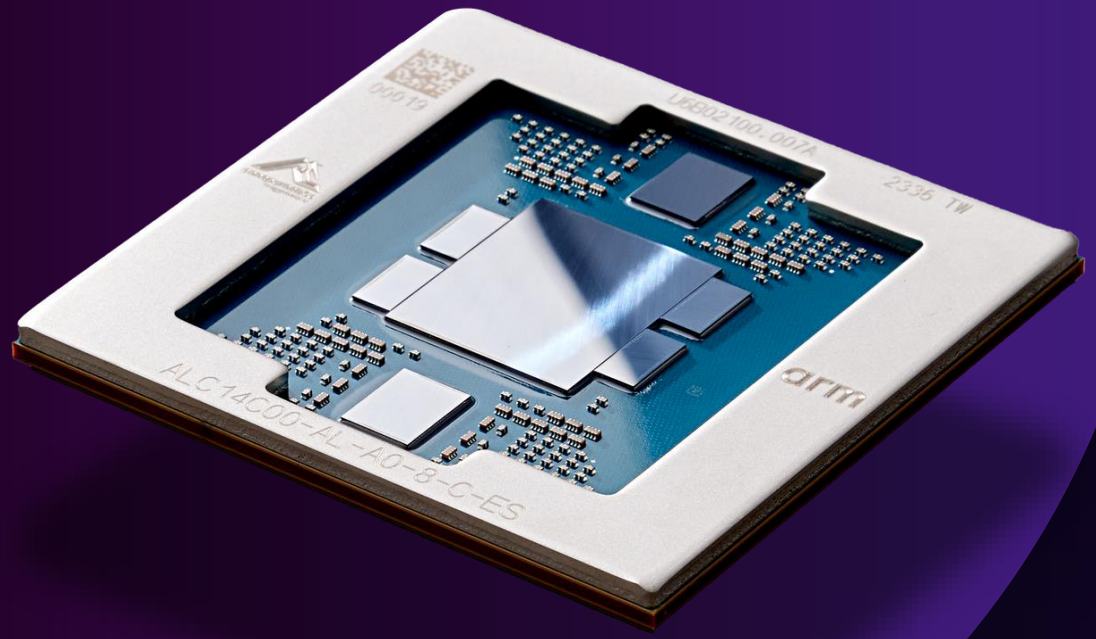
NEW

AWS Graviton4

SUPPORTS ENCRYPTION ON INTERFACES



DRAM

NITRO CARDS

COHERENT LINK

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NEW

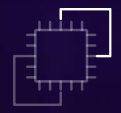
Amazon EC2 R8g instances

8th generation instances powered by AWS Graviton4

AVAILABLE IN PREVIEW TODAY



Up to 30% better compute performance delivering the best price-performance in EC2
(compared to R7g)



Up to 3x more memory enabling scalability for high-performance databases
(compared to R7g)



Best energy efficiency in EC2 for running memory optimized workloads

aws

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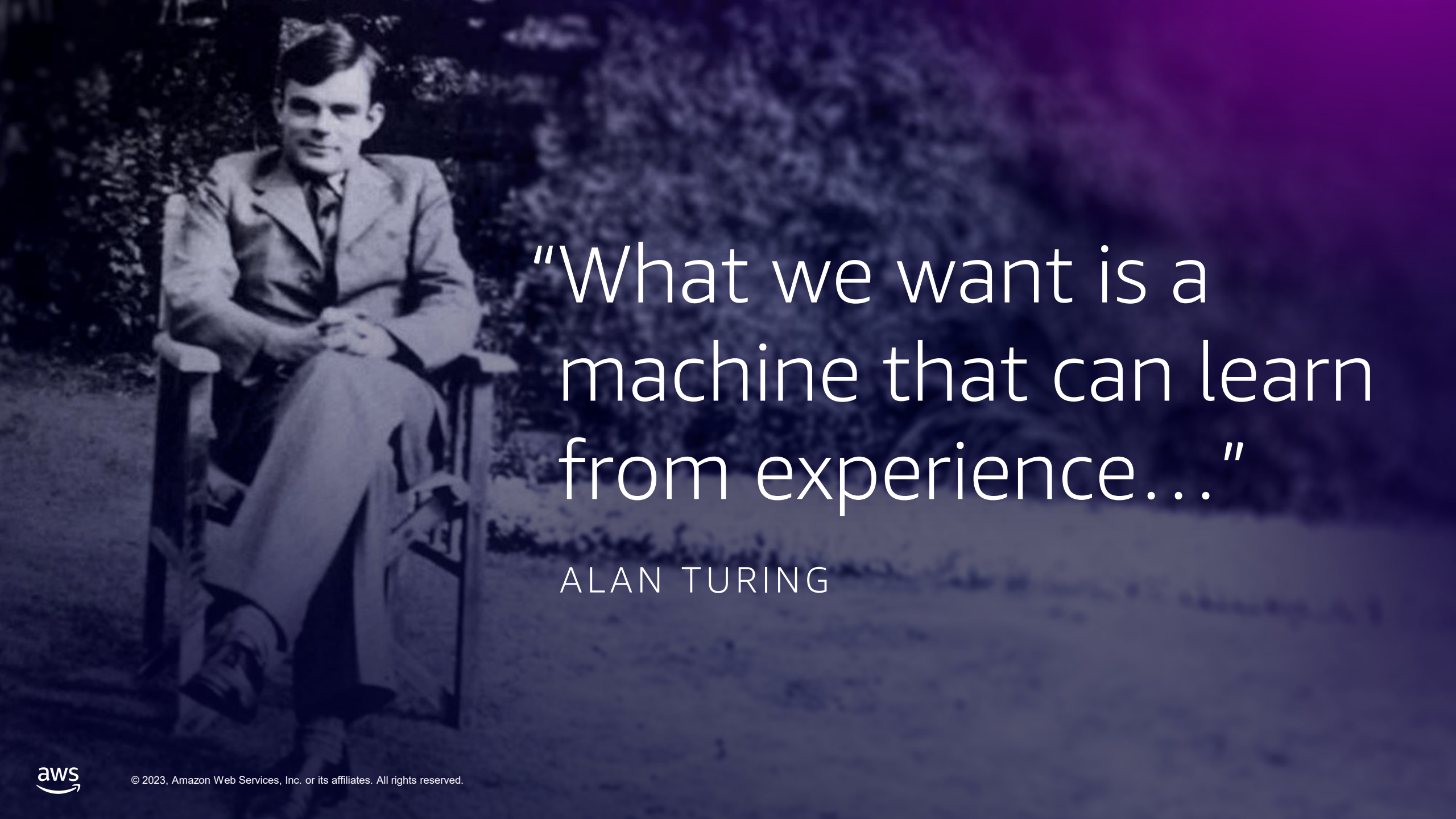

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Supporting ML workloads

LARGEST SELECTION OF ML INSTANCES IN THE CLOUD



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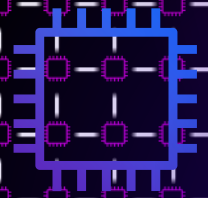
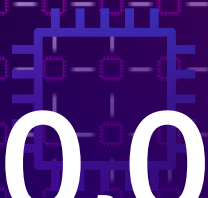
2012



2 GPUs

60M parameters

2023



10,000 GPUs

500B parameters

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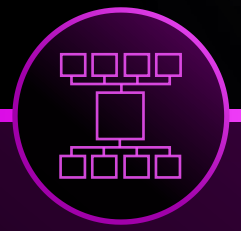
NEW

Amazon EC2 P5 instances

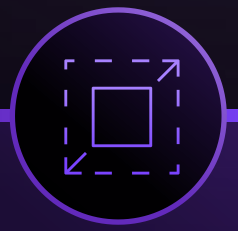
HIGHEST PERFORMANCE GPU-BASED INSTANCES FOR DEEP LEARNING AND HPC APPLICATIONS



NEXT-GEN NVIDIA GPUS

Powered by up to 8 NVIDIA H100 Tensor Core GPUs

Up to 4x higher performance and up to 40% lower cost to train over previous generation



SCALABLE PERFORMANCE

Provides 8 petaFLOPs of compute, 640 GB of high-bandwidth memory, and 3200 Gbps of EFA networking



EC2 ULTRACLUSTERS

Deployable in Amazon EC2 UltraClusters – up to 20,000 GPUs – to deliver up to 20 exaFLOPs of compute performance

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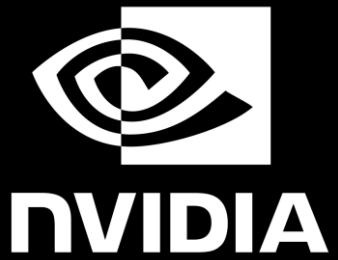

World's **fastest AI Supercomputer**

Newest DGX Cloud hosted in AWS

EFA **Interconnect and Nitro**

Coming next year to customers in DGX Cloud

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NEW

AWS Trainium Trn1 and Trn1n instances

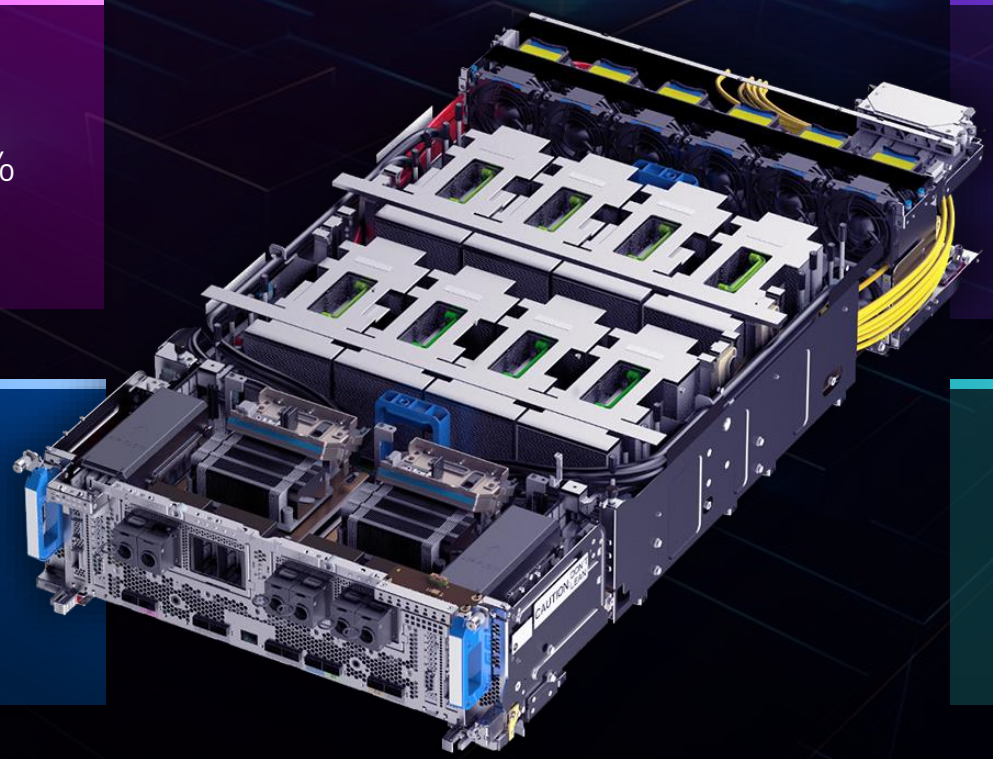
HIGH PERFORMANCE, ENERGY EFFICIENT, AND COST-EFFECTIVE TRAINING

LOWER TRAINING COSTS

Faster time to train deep learning models with up to 50% cost-to-train savings

ENHANCED NETWORKING

Up to 1600 Gbps of EFAv2 network bandwidth to deliver higher training performance



ULTRA SCALABLE

With EC2 UltraClusters, you can scale to up to 64,000 Trainium accelerators for large-scale models

AWS NEURON

End-to-end ML development with popular ML frameworks including PyTorch, TensorFlow, and JAX

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NEW

AWS Trainium2

Second-generation chip purpose built for generative AI and ML training

COMING SOON



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NEW

AWS Trainium2

Second-generation chip purpose built for generative AI and ML training

COMING SOON



4x faster than AWS Trainium



UltraClusters of up to 100K Trainium2 chips



Ideal for training large-scale generative AI models with hundreds of billions to a trillion parameters



Out-of-the-box seamless experience with industry standard frameworks such as PyTorch, TensorFlow, and JAX

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NEW

AWS Inferentia2-based Inf2 instances

HIGH PERFORMANCE, ENERGY EFFICIENT, AND LOWEST COST INFERENCE

384 GB

Up to 12 Inferentia2 accelerators and up to 384 GB of HBM2e high-speed accelerator memory

4X

Up to 4x higher throughput and up to 10x lower latency than Inf1 instances

100B+

Optimized to deploy 100B+ parameter models at scale

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Cynthia Stoddard

Chief Information Officer

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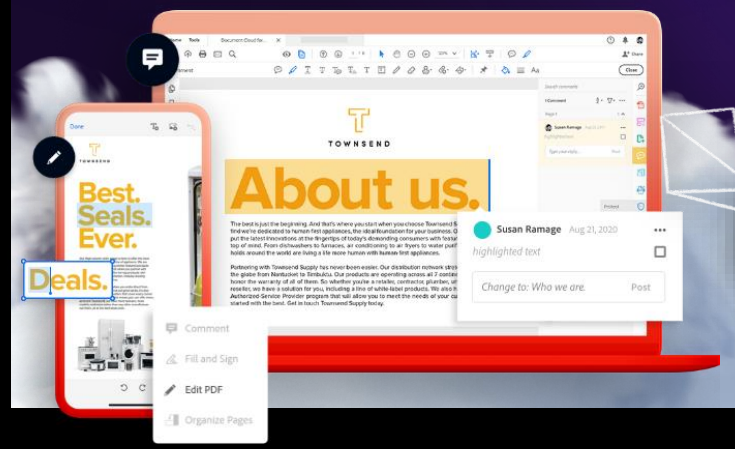
Adobe's **strategy**

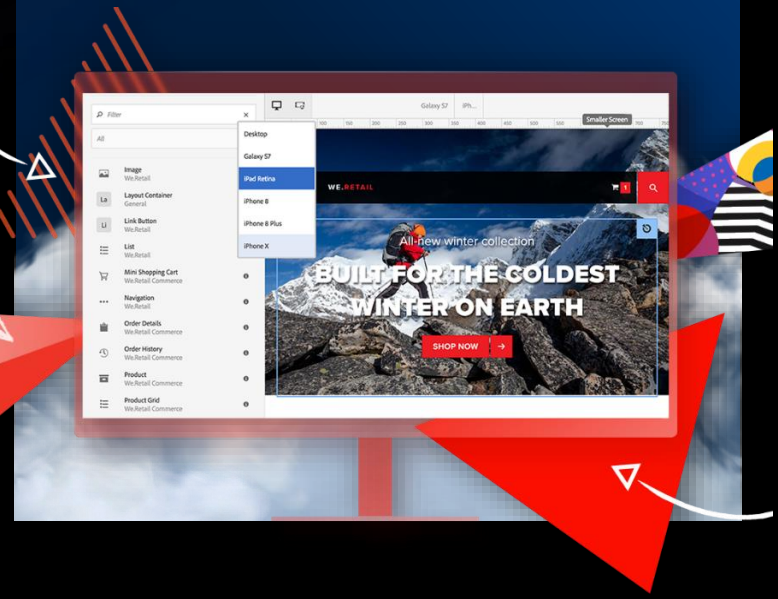
UNLEASHING CREATIVITY



ACCELERATING DOCUMENT PRODUCTIVITY



POWERING DIGITAL BUSINESSES



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40 years of **innovation**



1982

2023

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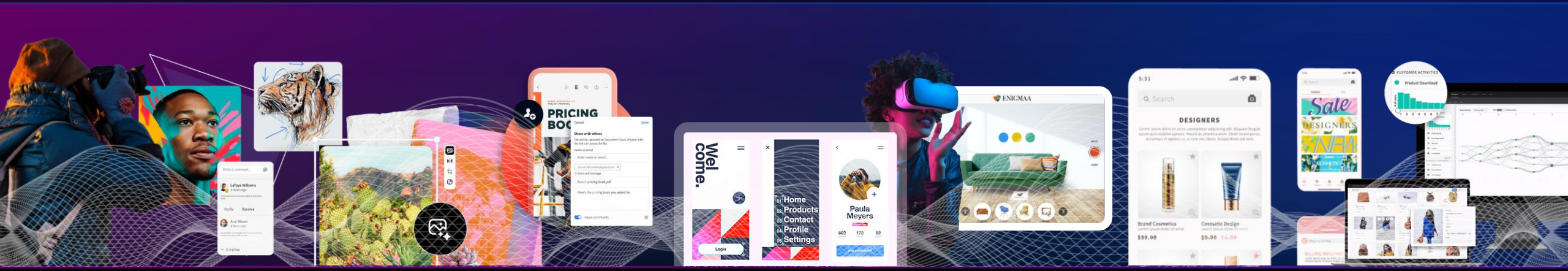
IMAGINE & EXPRESS IDEAS ⟷ CREATE CONTENT & APPS ⟷ PERSONALIZE & EMPOWER EXPERIENCES



COLLABORATION | WORKFLOWS | ADOBE SENSEI

Students Consumers Communicators Creative Professionals Developers SMBs Enterprises

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Adobe Firefly

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Black and orange cat on the beach drinking a mojito

Generate

MARCH 2023

Firefly image 1 model



OCTOBER 2023

Firefly image 2 model



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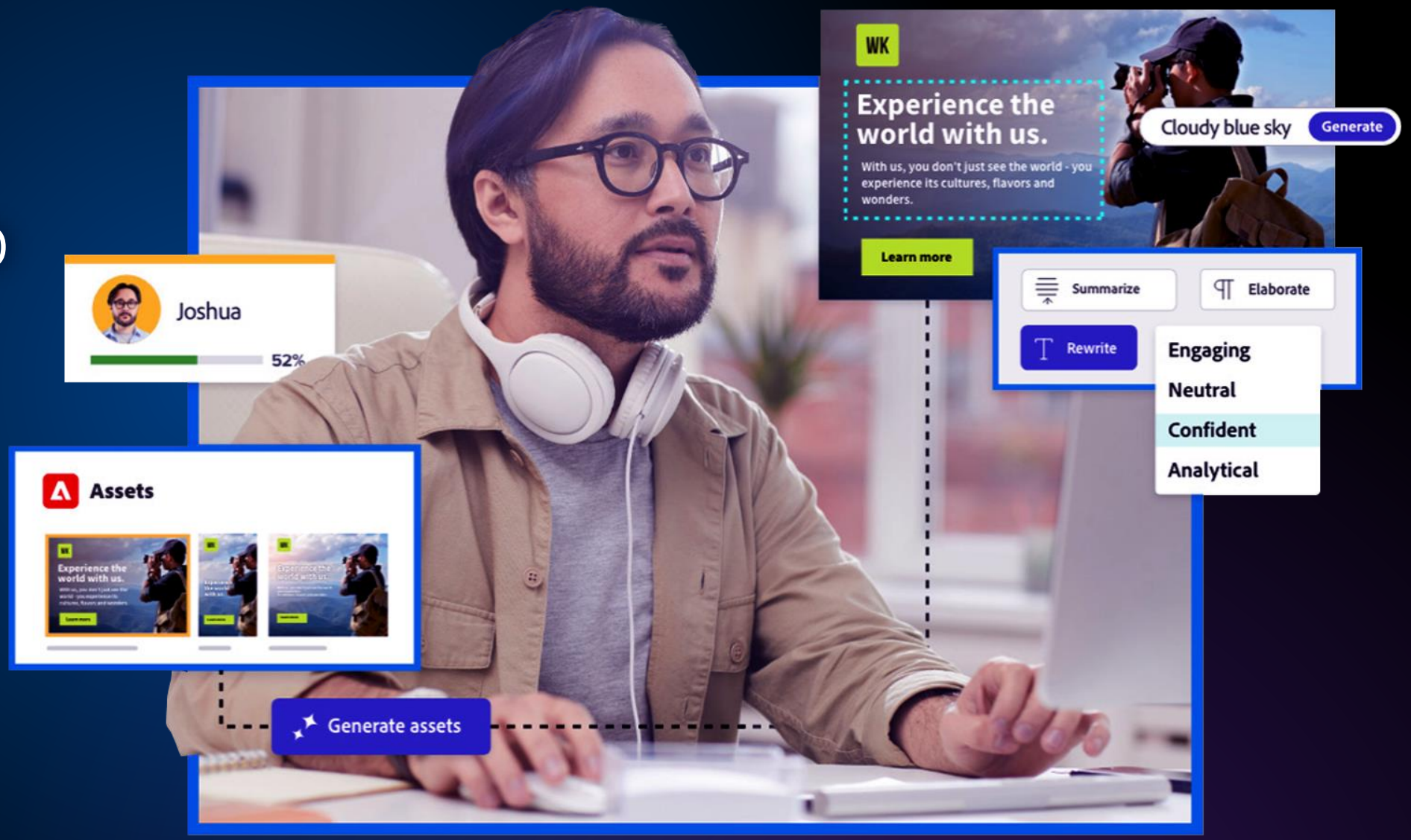
Adobe GenStudio



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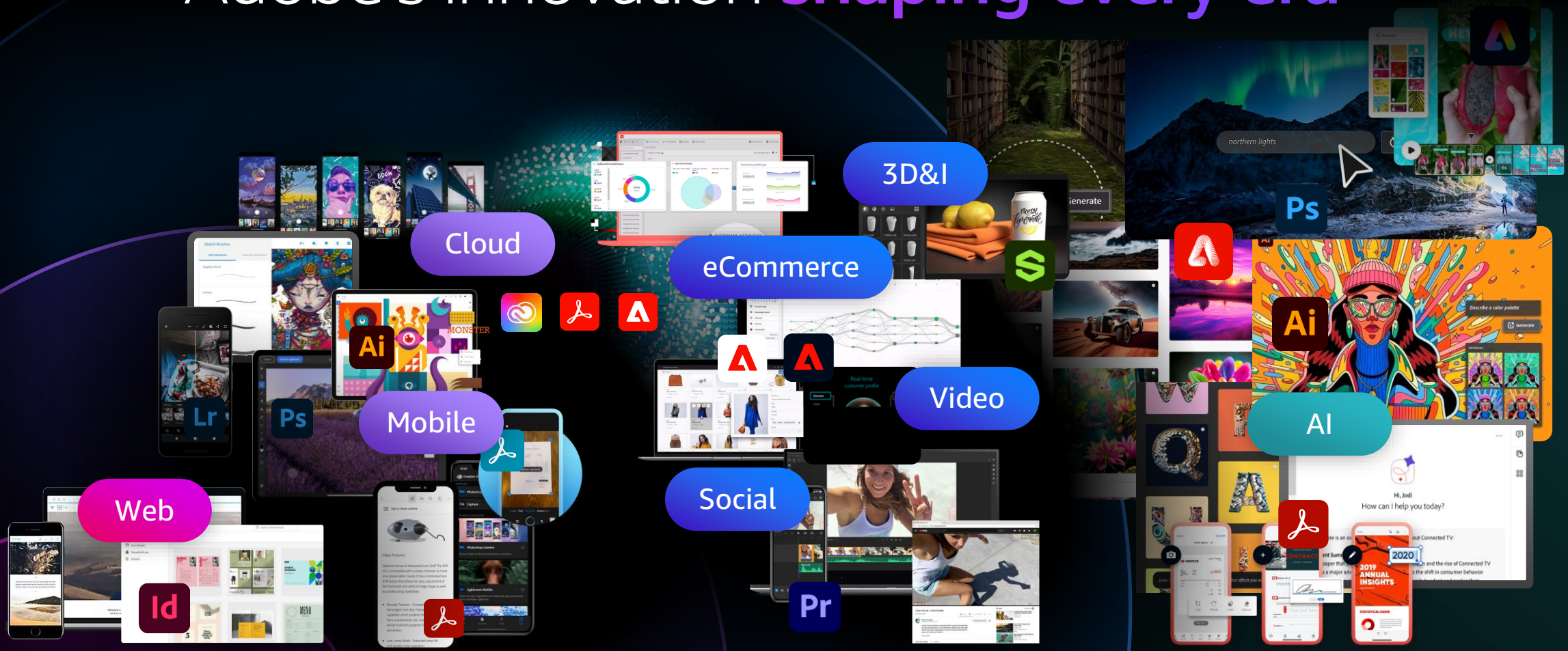

INTERNET ERA MOBILE ERA SOCIAL ERA AI ERA

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NEW

Amazon EC2 **Capacity Blocks for ML**

Reserve Amazon EC2 P5 instances

GENERALLY AVAILABLE



Specify cluster size, future start date and duration



Provides reliable, predictable access to GPUs



Collocated in Amazon EC2 UltraClusters

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NEW

Amazon EC2 Capacity Blocks for ML

Reserve Amazon EC2 P5 instances

GENERALLY AVAILABLE



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NEW

AWS Console-to-Code

Move from prototyping to production faster

AVAILABLE IN PREVIEW TODAY



Generate well-architected code



CloudFormation, CDK, SDK, Terraform

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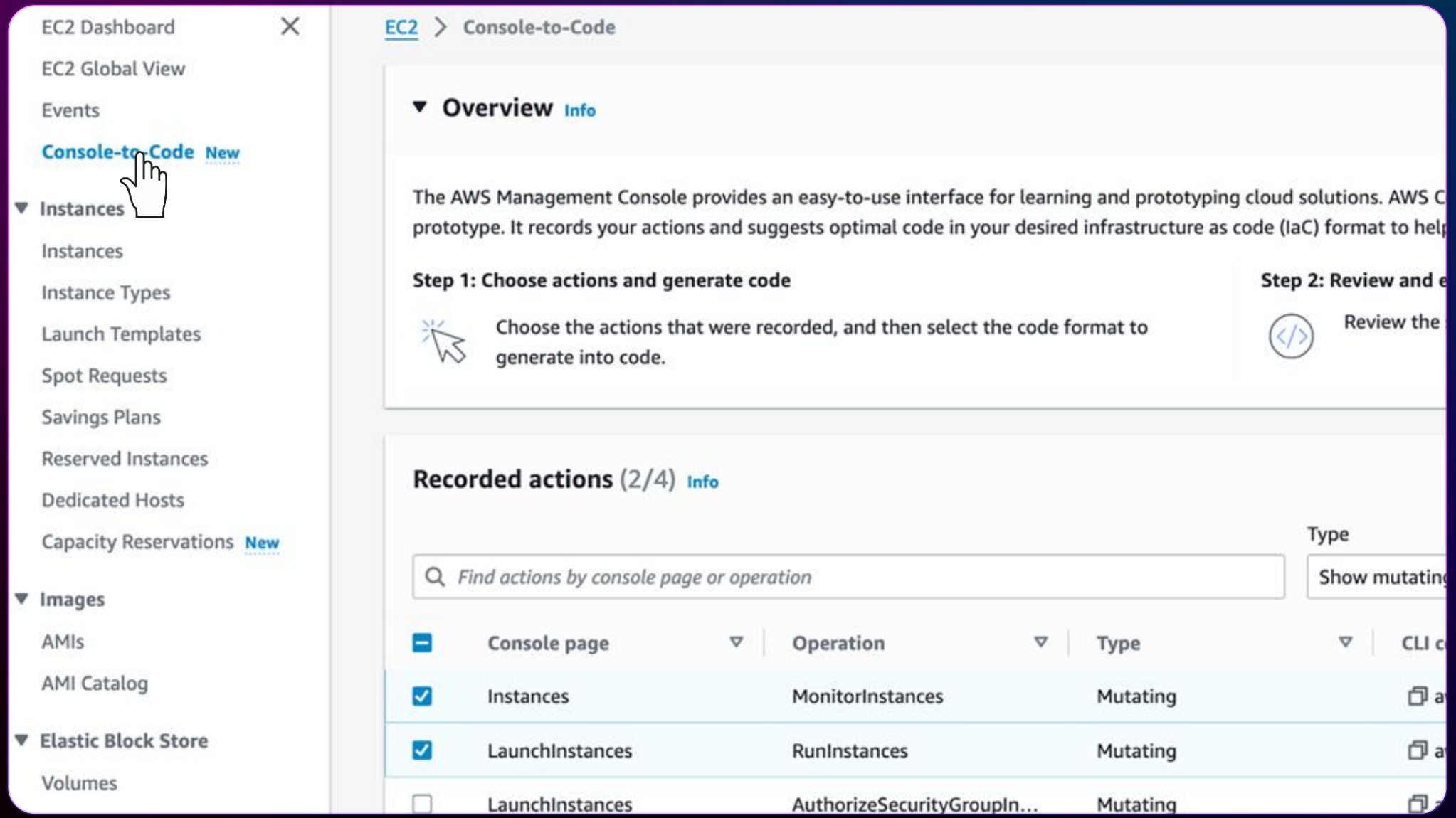

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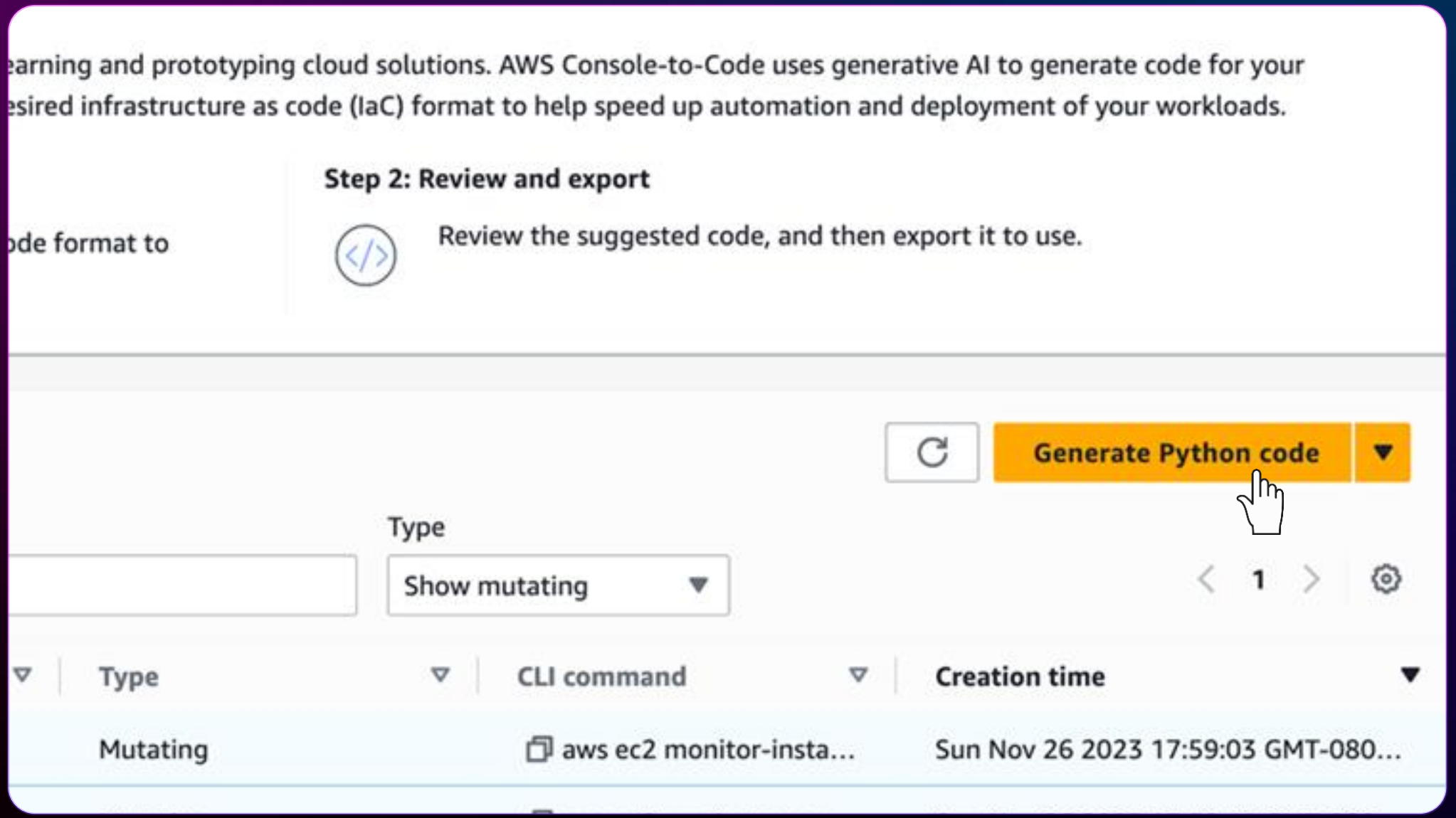

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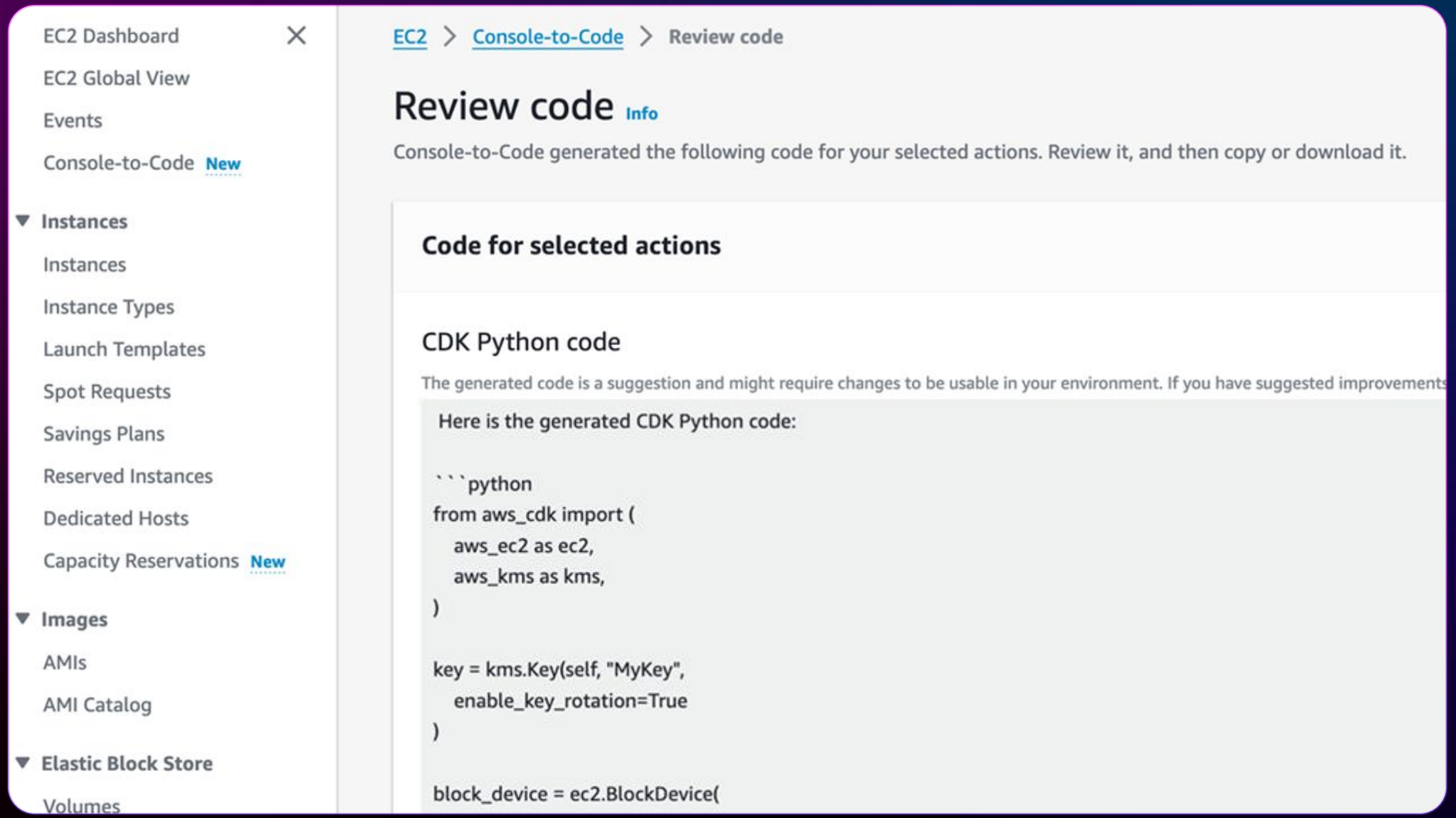

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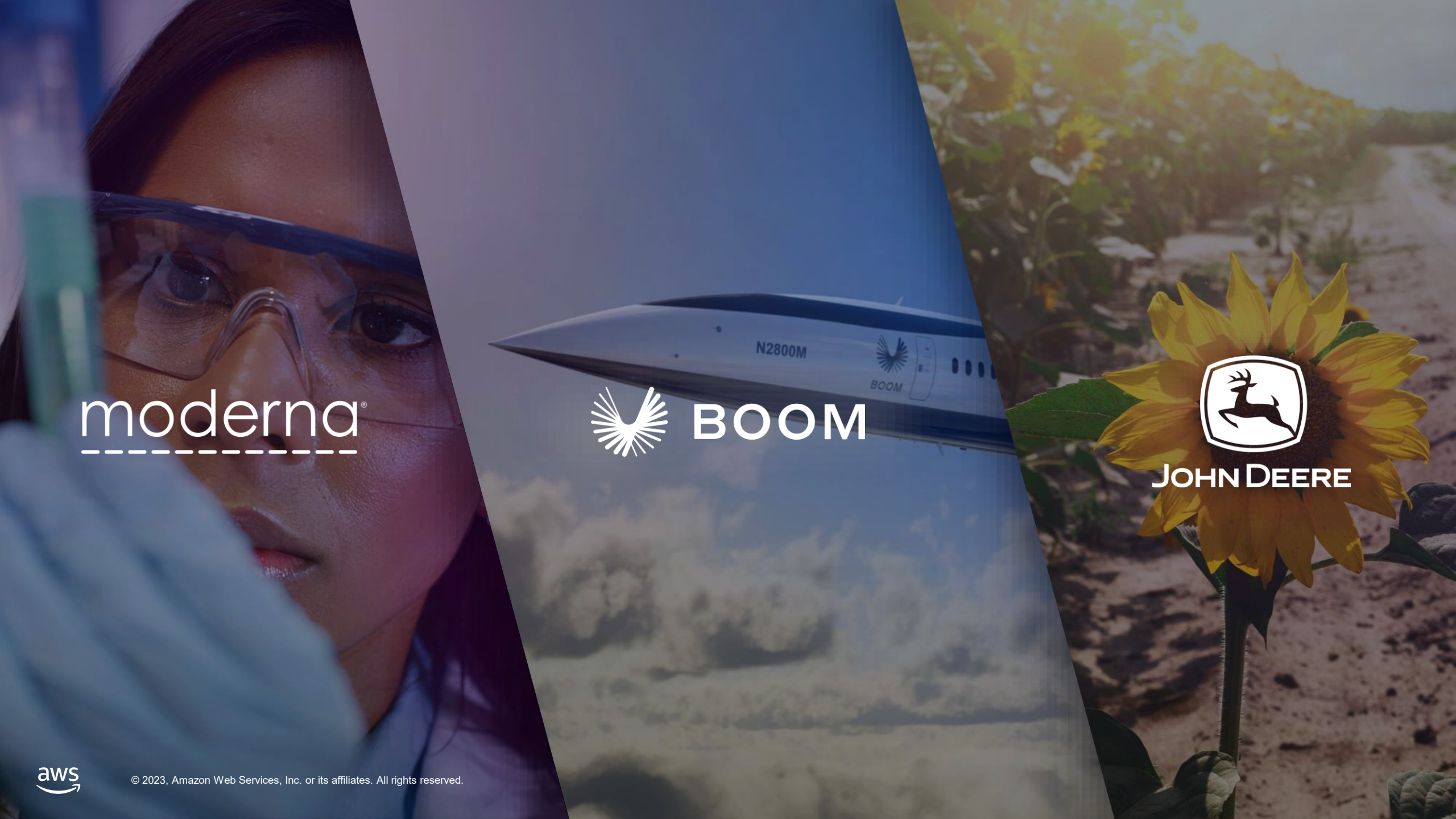

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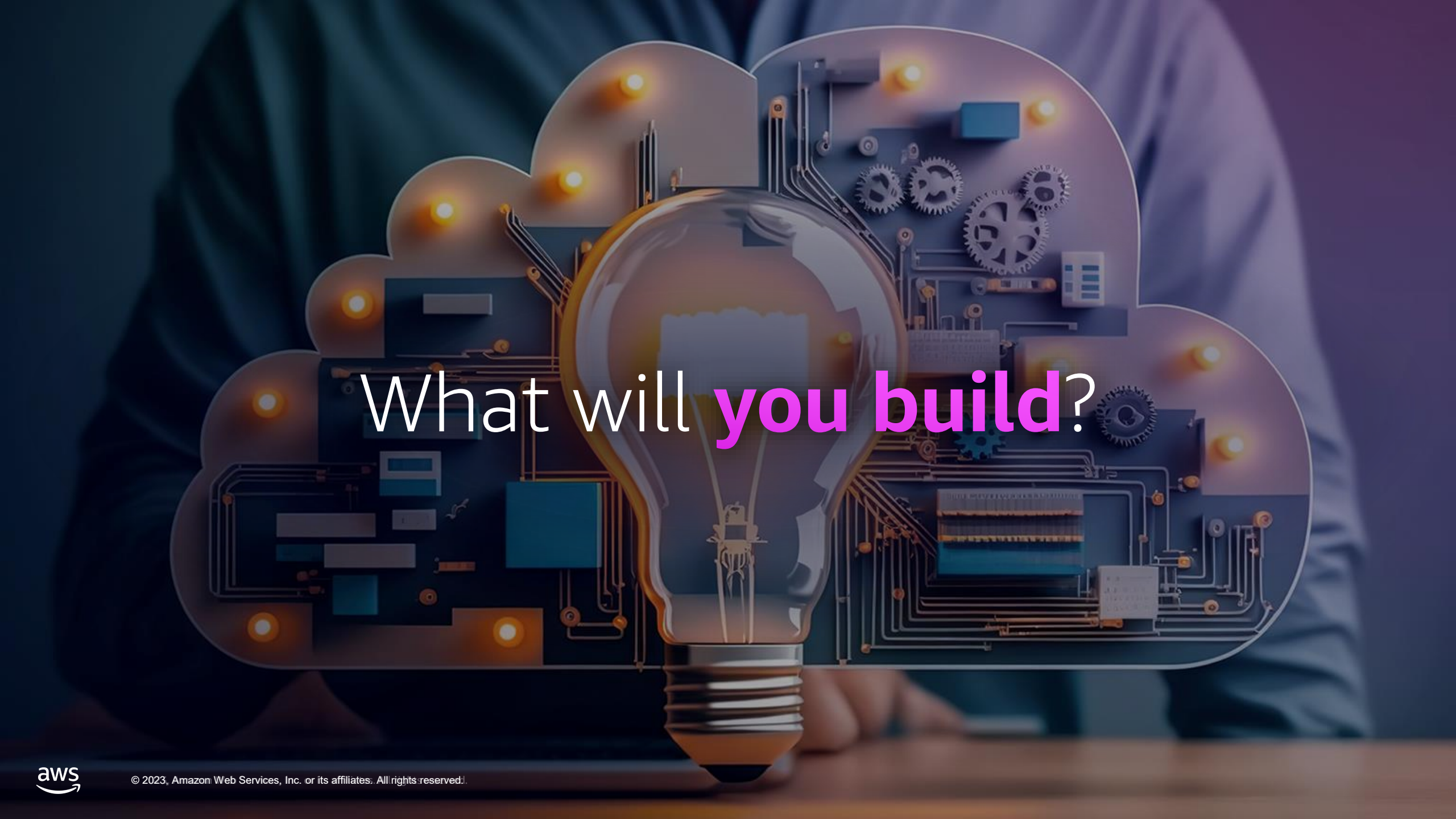

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