
AWS
re:Invent
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STG002

Enhance throughput benefits with Amazon EFS

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What do builders need from their storage?



Amazon Elastic File System (Amazon EFS)

Serverless, fully elastic file storage designed for builders

Built from the ground up to deliver super-simple, virtually bottomless file storage that **just works**

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Amazon EFS: File storage for builders

SUPER-SIMPLE, VIRTUALLY BOTTOMLESS FILE STORAGE THAT JUST WORKS

Accessible from anywhere

Accessible from virtually all forms of AWS compute, containers, and serverless functions



Amazon EFS

Highly available, durable, and secure, without any knobs

High performing

Latencies as low as 600 microseconds

Up to 500 K IOPS

Up to 10+ GB/s of throughput

Cost optimized

Four storage classes with automatic lifecycle-based cost optimization

Blended storage cost: $0.043 GB/month

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Common performance intensive use cases



Machine learning



DevOps applications



Content management systems



Analytics

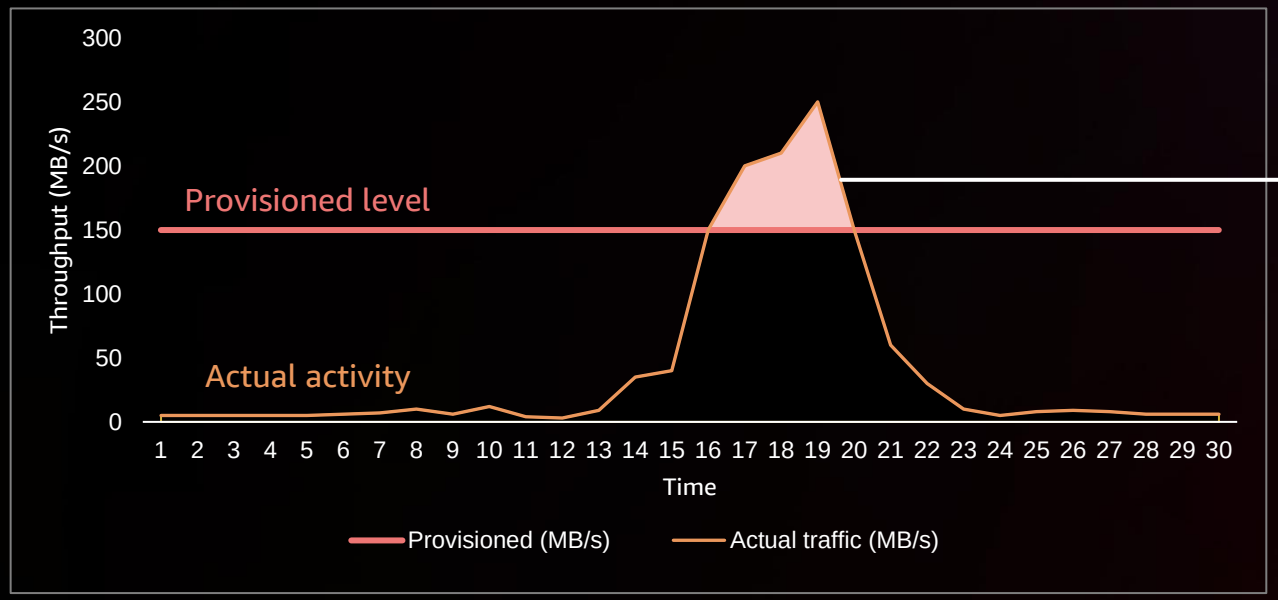


Media processing

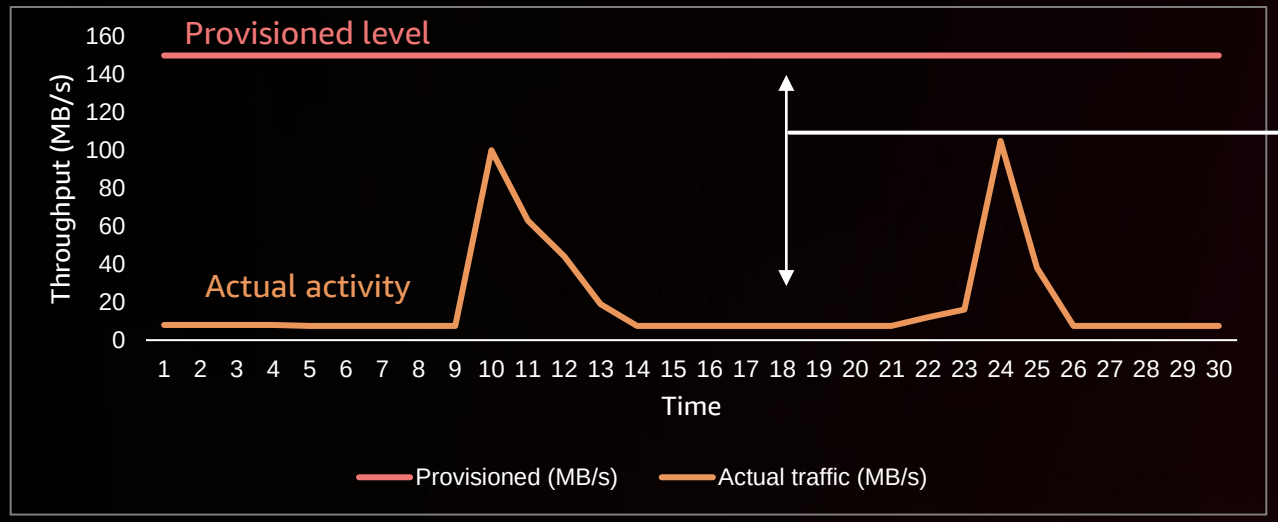
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Traditional performance planning is hard



Workload is throttled due to under-provisioned throughput capacity



Over-provisioning performance means **paying for idle, underutilized resources**

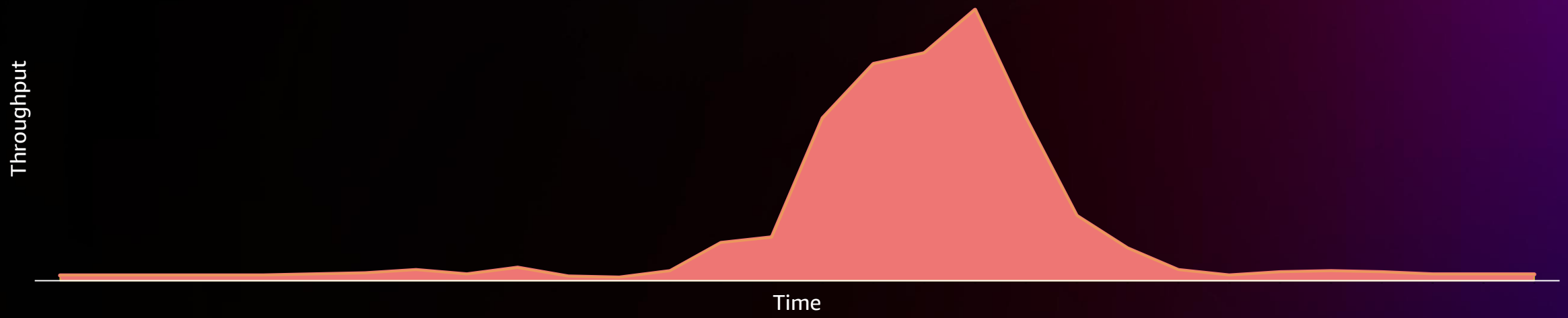
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Introducing Elastic Throughput

NEW

Eliminate performance planning and only pay for what you use

Designed to automatically meet throughput performance application needs



What it's for

Spiky, unpredictable, throughput-constrained workloads

When to use

If you don't know what you need – for spiky workloads (average-to-peak throughput of < 5%) and for new/changing workloads

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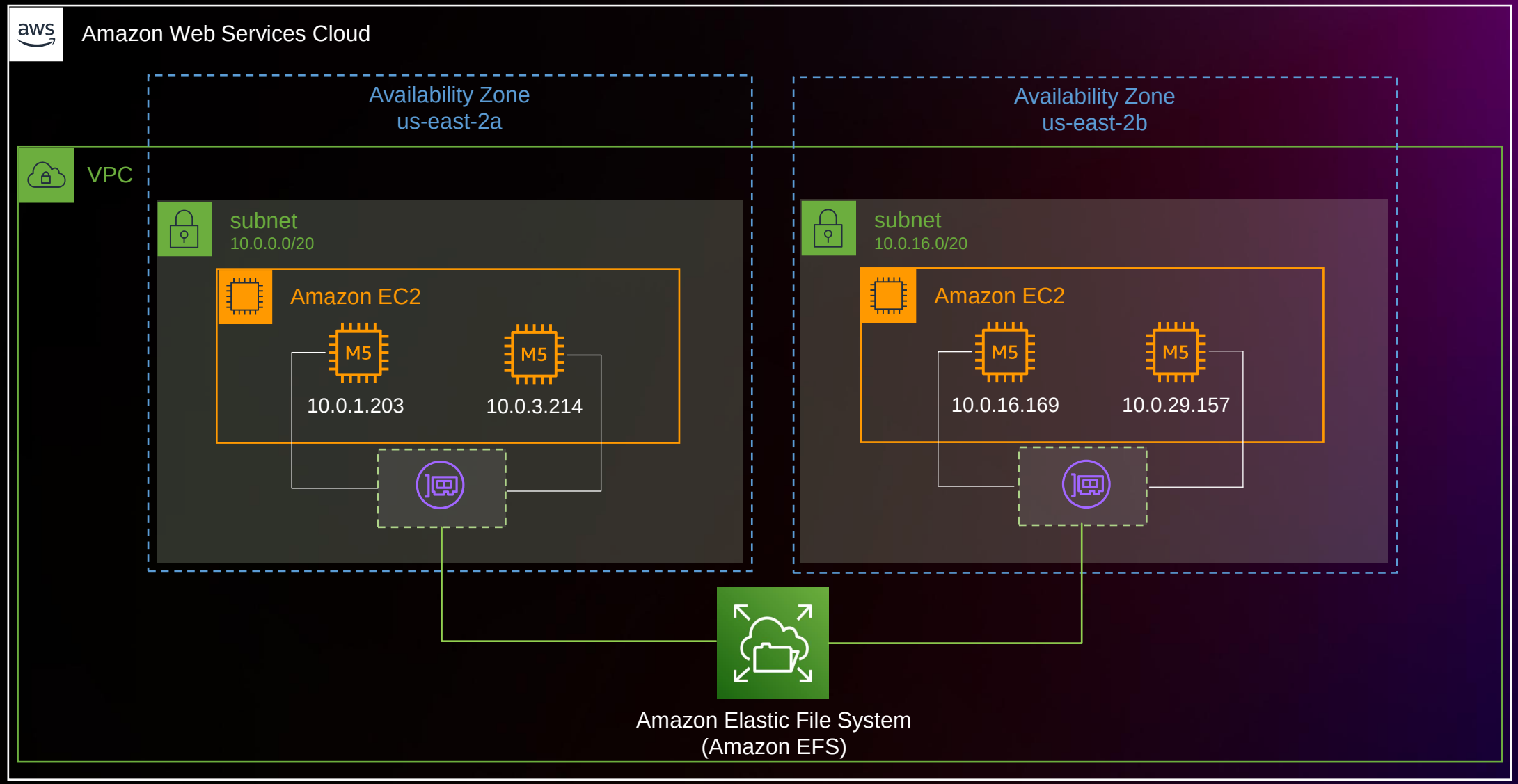
Choosing your throughput

Elastic	Provisioned
Workloads with very spiky traffic	Predictable traffic
New workloads with unpredictable traffic	Traffic is consistent
Lower cost of ownership	Predictable costs
Prefer the ease of hands-free management	You want to have tight control of shards

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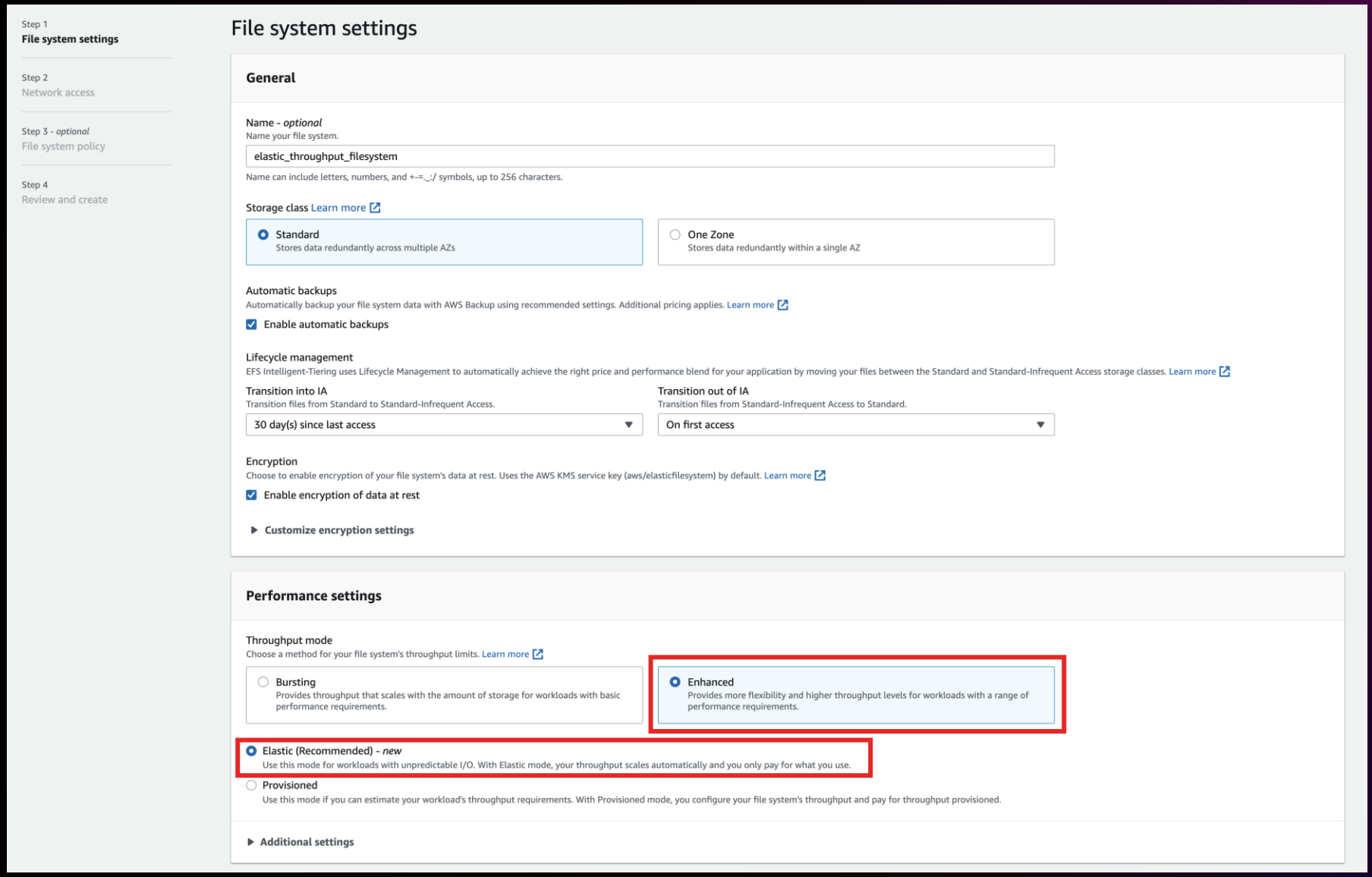
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Demo Architecture



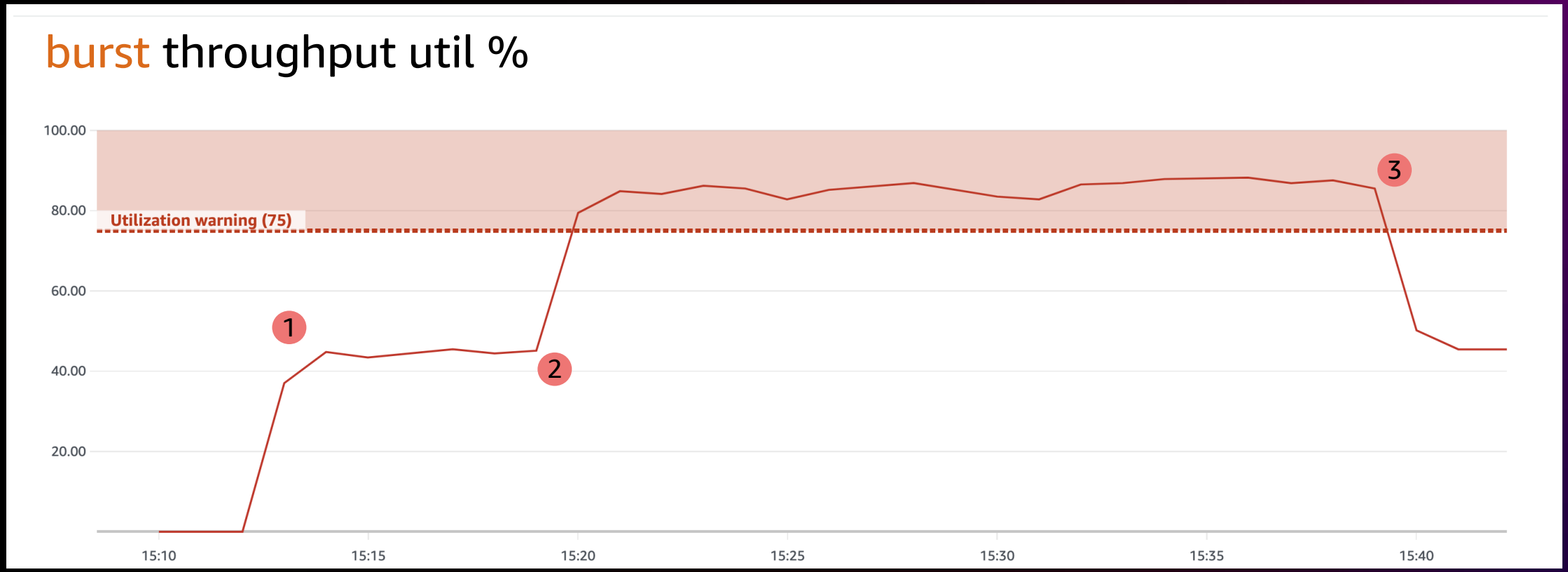
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Elastic throughput configuration



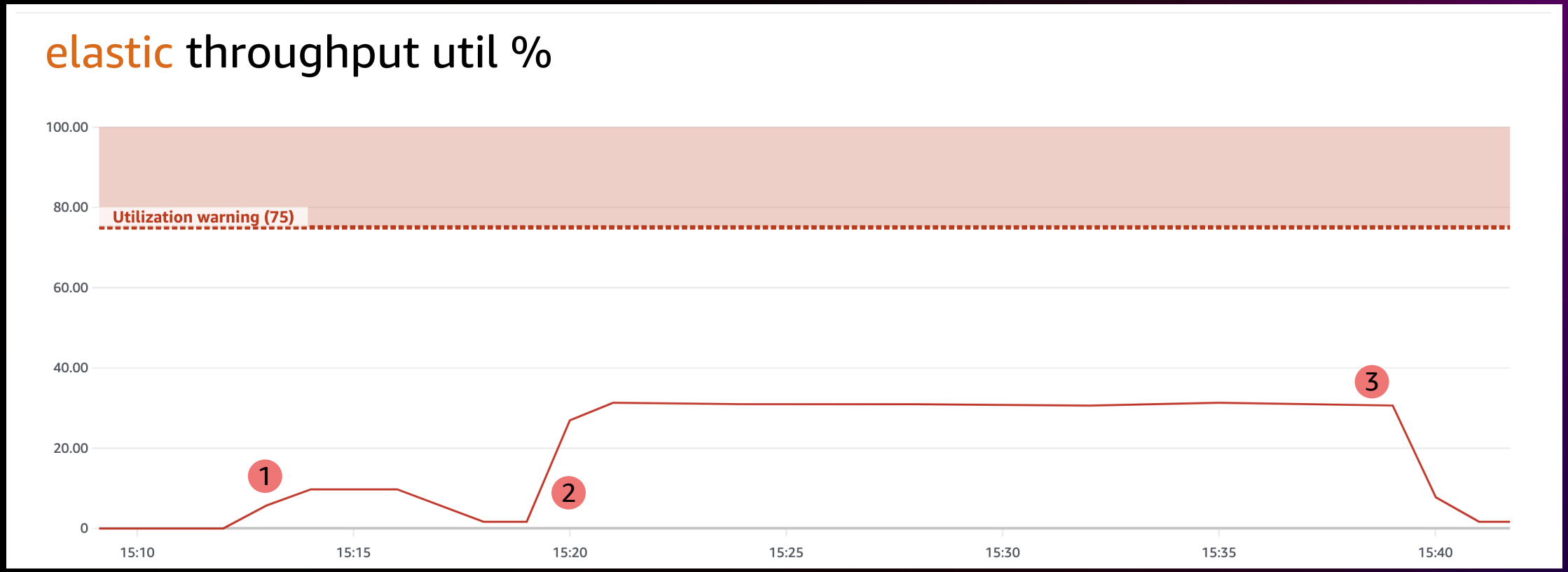
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Demo Architecture



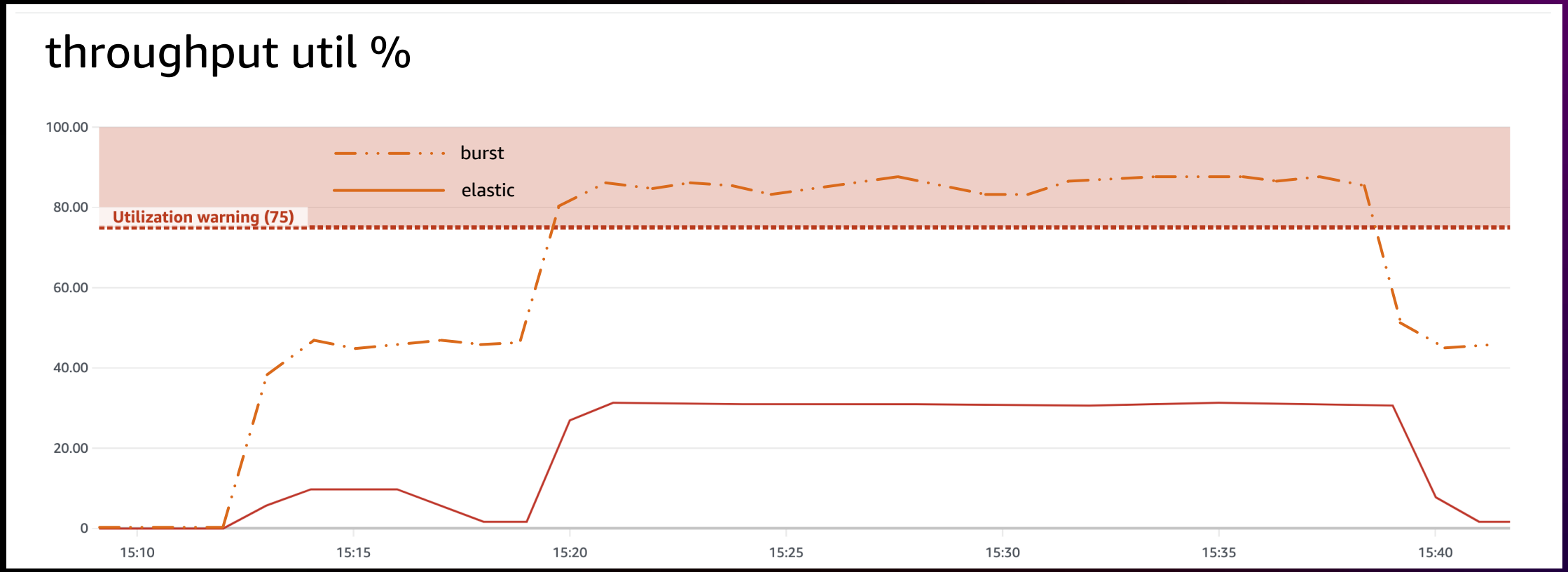
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Demo Architecture



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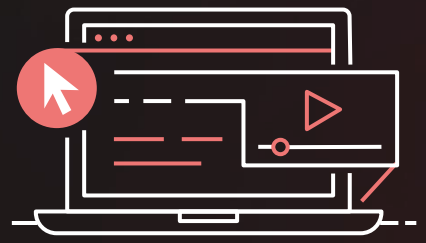
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Happy Hour: Tuesday at 6:00

AWS Storage – Rhumbar Tropical Ultra Lounge at the Mirage

STG303: Wednesday at 2:30

AWS storage for containers and serverless applications

STG403: Wednesday at 5:30

Take your Amazon EFS container deployments to the next level

STG311-R1: Thursday at 11:45

Building serverless modern applications using Amazon S3 or Amazon EFS

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Thank you!

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