

AWS

User Group

Munich / Germany

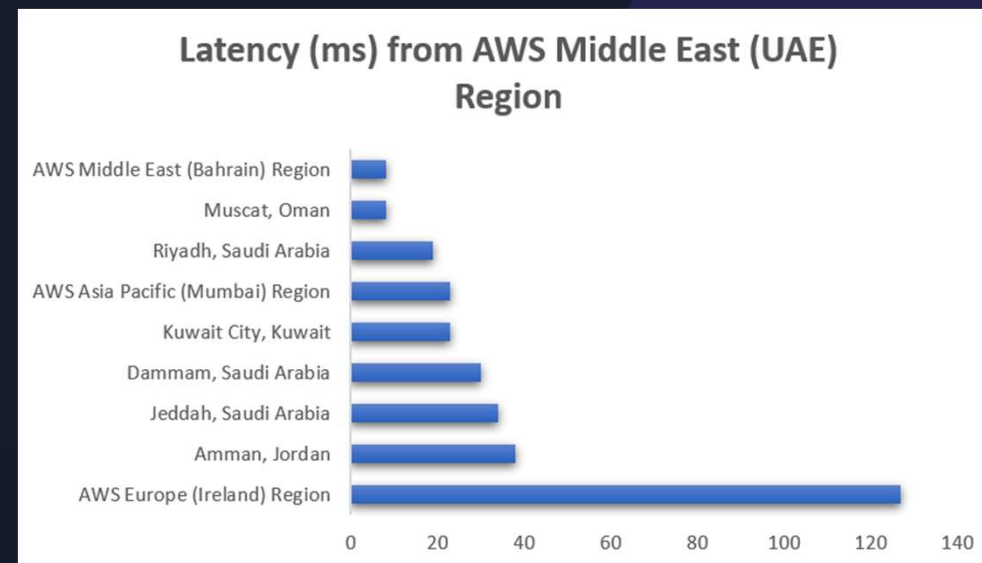
AWS Important Releases

07. July 2022 – 05. September 2022

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Global Infrastructure

- AWS Global Accelerator now with IPv6 support
- CloudFront now supports HTTP/3 powered by QUIC
- New Region in UAE: me-central-1
 - Not all services available, yet!



Compute

- EC2 M1 Mac are now GA (us-east-1, us-west-2, eu-west-1, ap-southeast-1)
 - 60% better price performance over x86-based EC2 Mac
- EC2 I4i now available in Frankfurt, London, Paris and more
 - I4i instances offer up to 30 TB of NVMe storage
- EC2 R6a is now GA (Frankfurt, Ireland)
 - Up to 35% better compute price performance compared to R5a and 10% lower cost than Intels x86-based EC2 instances
- EC2 C6i, M6i and R6i Instances now available in Frankfurt, Stockholm, Milan (in addition to Ireland and partly Frankfurt)

Compute

- EC2 Is4gen and Im4gn now in Frankfurt and London
 - Graviton 2 and up to 30TB of storage with the new AWS Nitro SSDs to maximize the storage performance of I/O intensive workloads

Network

- AWS Cloud WAN is now GA (Frankfurt, Ireland, London, Milan, Paris, Stockholm)
- AWS Network Firewall now supports VPC prefix lists
- AWS Firewall Manager adds support for AWS Managed Rules

Storage

Container

- Amazon EKS
 - Amazon EKS now support Kubernetes version 1.23
 - Amazon EKS announces cluster-level cost allocation tagging

Serverless

- Lambda announces support for Attribute-Based Access Control (ABAC) and adds support for a new IAM condition key, `lambda:SourceFunctionArn`
- Amazon EventBridge now supports receiving events from GitHub, Stripe and Twilio using Webhooks
- AWS Step Functions adds 14 new intrinsic functions
 - ArrayContains, ArrayGetItem, ArrayLength, ArrayPartition, ArrayRange, ArrayUnique, Base64Encode, Base64Decode, JsonMerge, Hash, MathAdd, MathRandom, StringSplit, UUID

Databases & Big Data

- Redshift:
 - Redshift Serverless is now GA (Frankfurt, Ireland, London, Stockholm)
 - Automated Materialized View (AutoMV) for Amazon Redshift is now GA
 - Redshift announces open source ODBC driver with binary protocol support and enhanced performance
- Aurora PostgreSQL now supports R6i instances
- AWS Glue
 - Now supports a 0.25 instance type
 - Streaming ETL Auto Scaling is now GA
 - AWS Glue now supports Flex execution
 - Crawler history

Databases & Big Data

- Amazon OpenSearch Service
 - support for EBS gp3 volume type
 - v1.3
- ElastiCache Redis now with T4g, M6g and R6g instances in Paris & Milan
- DynamoDB now supports bulk imports from S3 to new DynamoDB tables
- Announcing Amazon Neptune Global Database (Ireland, London)

DevTools / DevOps

- Log Anomaly Detection and Recommendations for DevOps Guru
- AWS CloudFormation event notifications with Amazon EventBridge
 - Resource status, Stack status, Drift detection status
- Amazon Managed Service for Prometheus Alert Manager & Ruler logs now available in Amazon CloudWatch Logs

Analytics & Monitoring

- Auto Scaling now publishes predictive scaling policy's forecasts as a CloudWatch metric
- CloudWatch custom metrics now supports up to 1,000 metrics per call (from 20) at a 3x faster default call rate and specify up to 30 dimensions (from 10) per metric.

Security & Compliance

- AWS announces AWS Wickr (Preview)
 - Encrypts every message, call, and file with a proprietary, 256-bit end-to-end encryption protocol
- AWS SSO is now AWS IAM Identity Center
 - Provides APIs to manage users and groups now
- AWS Backup now supports copying S3 backups across regions and accounts
- Amazon CloudFront launches Origin Access Control (OAC)
 - S3 bucket now

AI/ML

- Heterogeneous Clusters for Amazon SageMaker model training
- AWS Forecast
 - Custom forecast frequencies now supported
 - Provides what-If analyses now

IoT

Pricing

- Lambda now with tiered pricing

Architecture	Duration	Requests
x86 Price		
First 6 Billion GB-seconds / month	\$0.0000166667 for every GB-second	\$0.20 per 1M requests
Next 9 Billion GB-seconds / month	\$0.000015 for every GB-second	\$0.20 per 1M requests
Over 15 Billion GB-seconds / month	\$0.0000133334 for every GB-second	\$0.20 per 1M requests
Arm Price		
First 7.5 Billion GB-seconds / month	\$0.0000133334 for every GB-second	\$0.20 per 1M requests
Next 11.25 Billion GB-seconds / month	\$0.0000120001 for every GB-second	\$0.20 per 1M requests
Over 18.75 Billion GB-seconds / month	\$0.0000106667 for every GB-second	\$0.20 per 1M requests

Others

- Cloudscape Design System
 - open source solution for building intuitive web applications used by AWS since 2016
- AWS Training and Certification announces AWS Skill Builder subscriptions
- AWS Ground Station adds support for wideband Digital Intermediate Frequency in Ireland (and others)
- AWS Support launches support for managing cases in Slack

What's included?	Free	Subscription
500+ on-demand courses	✓	✓
Learning Plans	✓	✓
AWS Cloud Quest: Cloud Practitioner	✓	✓
100+ AWS Builder Labs	✗	✓
3 AWS Certification Official Practice Exams	✗	✓
3 exam prep courses	✗	✓
10 AWS Jam Journey challenges in security	✗	✓
3 more AWS Cloud Quest roles	✗	✓

AWS Community & Events

- AWS Community Day 2022 – register now!
 - October 19th 2022 – Börse Dresden
 - Start at 9am – Networking Event in the evening
 - <https://www.aws-community-day.de/>
- AWS re:Invent 2022 in Las Vegas
 - Nov 28th to Dec 2nd
 - Registration open: <https://reinvent.awsevents.com/>
- Next Meetup AWS UG Munich:
 - Oct 4th at/with Scalable Capital (Meetup Listing coming soon!)