

# **AWS Important Releases**

Markus Ostertag  
Team Internet AG

also available in a few days at: <https://github.com/Osterjour/aws-ug-announcements>

## Global Infrastructure

- 7 new edge location (187 in total)

# Compute

- z1d instances now available in London
- New C5, R5, M5 instance types

Size	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Bandwidth (Gbps)	Network Bandwidth (Gbps)
c5.12xlarge	48	96	EBS-Only	7	12
c5.24xlarge	96	192	EBS-Only	14	25
c5.metal	96	192	EBS-Only	14	25

Size	vCPUs	Memory (GiB)	Storage (GB)	EBS-Optimized Bandwidth (Gbps)	Network Bandwidth (Gbps)
m5.8xlarge	32	128	EBS Only	5	10
m5a.8xlarge	32	128	EBS Only	3.5	Up to 10
m5d.8xlarge	32	128	2 x 600 NVMe SSD	5	10
m5.16xlarge	64	256	EBS Only	10	20
m5a.16xlarge	64	256	EBS Only	7	12
m5d.16xlarge	64	256	4 x 600 NVMe SSD	10	20

Size	vCPUs	Memory (GiB)	Storage (GB)	EBS-Optimized Bandwidth (Gbps)	Network Bandwidth (Gbps)
r5.8xlarge	32	256	EBS Only	5	10
r5a.8xlarge	32	256	EBS Only	3.5	Up to 10
r5d.8xlarge	32	256	2 x 600 NVMe SSD	5	10
r5.16xlarge	64	512	EBS Only	10	20
r5a.16xlarge	64	512	EBS Only	7	12
r5d.16xlarge	64	512	4 x 600 NVMe SSD	10	20

# Container

- ECS Support for Windows Server 2019 Containers is GA

## Network

- NLB now supports UDP Protocol
- VPC Traffic Mirroring for EC2 Instances
  - Only for Nitro-based instances!
- AWS WAF and AWS Shield Advanced now available in Paris

## Storage

- EFS now available in Paris
- Amazon FSx for Lustre and Windows File Server now available in Frankfurt, London
- AWS Backup now available in London
- EFS now with Lifecycle Management
  - 14,30,60,90 days to IA

## Databases & Big Data

- AWS Glue now with Python 3.6 in Python shell jobs
- AWS Glue, Neptune and Athena now available in Stockholm
- ElastiCache Redis now with reader endpoints
- Neptune Audit Logs in Cloudwatch Logs
- Aurora with PostgreSQL now Supports Data Import from Amazon S3
- Aurora with PostgreSQL now supports Serverless
- Aurora now supports cloning across AWS accounts



## Databases & Big Data

- RDS now supports Storage Auto Scaling
- DocumentDB now supports Stopping and Starting Clusters
  - After 7 days it will automatically be started again
- Elasticsearch Service now with hourly snapshots



# Development, Deployment and Management

- AWS CodeCommit Supports new Merge Strategies and Merge Conflict Resolution

**Merge request details**

**Pull request: #9 Bug fix for unhandled exception**

**Destination** master << **Source** bugfix-bug1234

**Merge strategy** [Info](#)  
Determines the way in which the current pull request will be merged into the destination branch

☐ **Fast forward merge**  
`git merge --ff-only`  
Merges the branches and moves the destination branch pointer to the tip of the source branch. This is the default merge strategy in Git.

☒ **Squash and merge**  
`git merge --squash`  
Combine all commits from the source branch into a single merge commit in the destination branch.

☐ **3-way merge**  
`git merge --no-ff`  
Create a merge commit and adds individual source commits to the destination branch.

☐ Preview markdown

**Commit message - optional**

Squashed commit of the following

commit d49940ad  
Author: Li Juan <li.juan@example.com>  
Date: Tue May 07 2019 15:12:48 GMT-0700 (Pacific Daylight Time)

Fixing the bug reported in 1234.

## Resolve conflicts

Resolve conflicts in each of the files in the list. When you have resolved all conflicts, update the pull request and review the merge strategies available. [Info](#)

**Destination** master << **Source** bugfix-bug1234

**Editing: helloworld.py**

[Reset file](#)

[Delete file](#)

[Use source content](#)

[Use destination content](#)

helloworld.py

1

```
1 import sys
2 print('Hello, World!')
3
4
5 <<<<<< HEAD:helloworld.py
6 print('The sum of 2 and 3 is 5.')
7
8 <<<<<< bugfix-bug1234:helloworld.py
9 print('The sum of 3 and 2 is 5.')
10
11 sum = int(sys.argv[1]) + int(sys.argv[2])
12
13 print('The sum of {0} and {1} is {2}.'.format(sys.argv[1], sys.argv[2], sum))
```

☐ Allow the merge to proceed with Git conflict markers still present.

[Cancel](#)

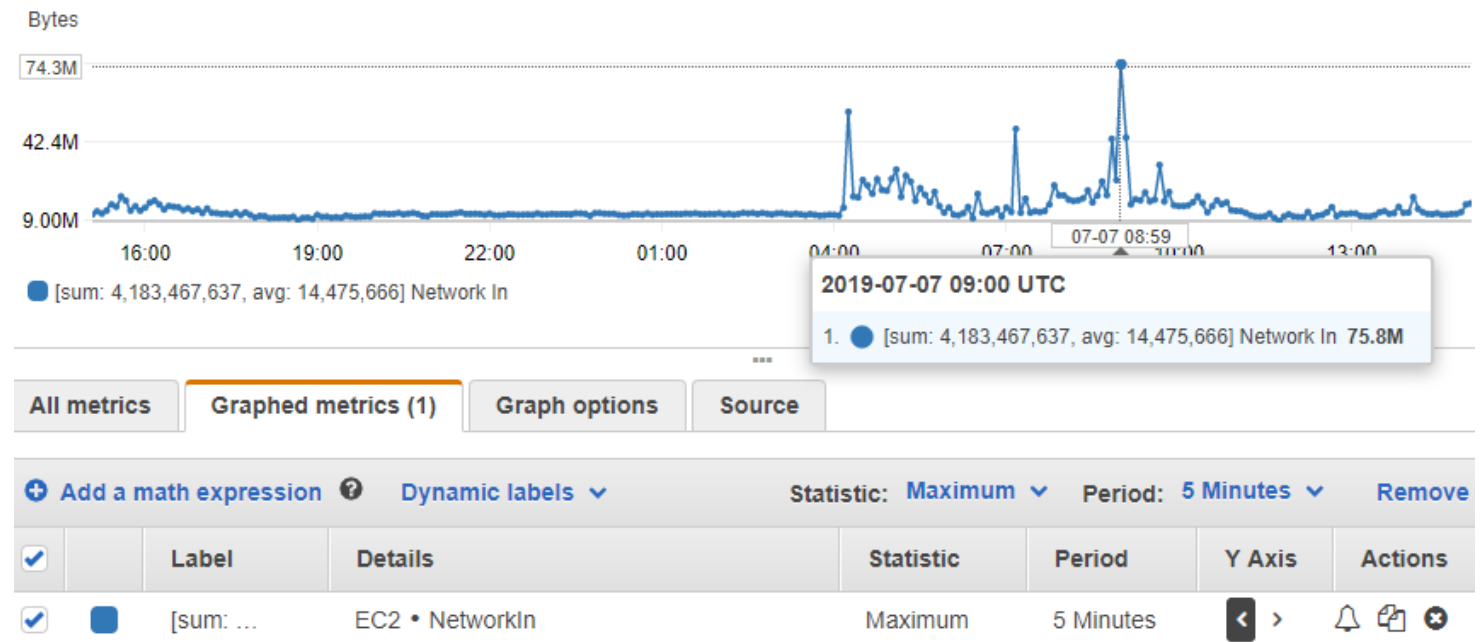
[Update pull request](#)

# Development, Deployment and Management

- Session Manager now with SSH/SCP tunneling support
  - ProxyCommand on SSH Client to start the SSM tunnel

# Analytics & Monitoring

- Amazon CloudWatch Launches Dynamic Labels on Dashboards
- Amazon CloudWatch Anomaly Detection in Preview



# IoT

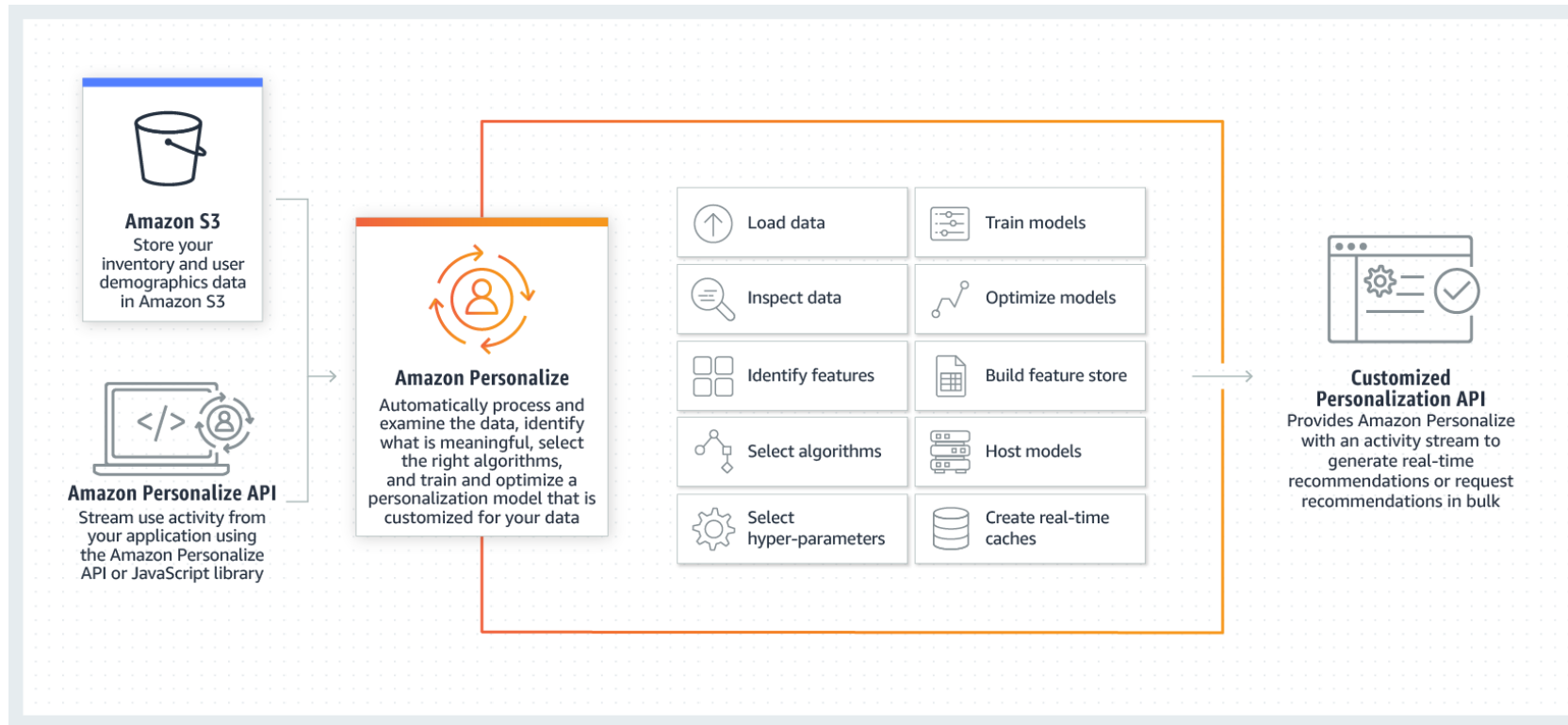
- AWS IoT Events now available in Frankfurt and others
- AWS IoT Core and Device Management now in Paris, Stockholm and others

# Security

- AWS Security Hub is now GA
- AWS Security Token Service (STS) now with PrivateLink in Virginia, Ohio, Ireland, Tokio
- EC2 Instance Connect
  - Pushes one-time temporary SSH keys to instances
  - Enables IAM permission based SSH access

# AI

- Amazon Personalize Now GA





# AI

- Amazon Rekognition now available in Frankfurt, London and others



# Others

- CloudFormation with multiple updates for new features/services
- Amazon MQ is now available in Paris
- Service Quotas overview

Service Quotas

Dashboard

AWS services

Quota request history

Organization

Quota request template

Amazon Elastic Compute Cloud (Amazon EC2)

Total quotas: 251

Amazon Virtual Private Cloud (Amazon VPC)

Total quotas: 2

Amazon Elastic Block Store (Amazon EBS)

Total quotas: 7

Amazon Relational Database Service (Amazon RDS)

Total quotas: 19

Amazon DynamoDB

Total quotas: 9

Amazon Athena

Total quotas: 4

AWS Systems Manager

Total quotas: 22

Amazon Simple Storage Service (Amazon S3)

Total quotas: 14

Amazon Route 53

Total quotas: 17

Pending service quota requests (0)

Quota name	Status	Request date
No Requests Found		

Recently resolved service quota requests

Quota name	Status	Request date
No Requests Found		

Modify dashboard cards

## Others

- AWS Workspaces now supports copying Images across regions

# Events

- AWS Community Day 2019
  - Call for Content:  
<https://www.aws-community-day.de/>
  - Monday Sept. 9th (8am to at least 11pm)  
at the Klubhaus St. Pauli in Hamburg

