AWS Important Releases

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

Global Infrastructure

- CloudFront adds a huge volume of new edges (40% more request capacity in North America) in existing an new cities/countries/regions
- Stockholm is live (eu-north1) – 3 AZs

Compute

- P3dn instance for HPC and machine learning

- High memory instances now also in Ireland

Instance Size	GPUs - Tesla V100	GPU Peer to Peer	GPU Memory (GB)	vCPUs	Memory (GB)	Network Bandwidth	EBS Bandwidth	Local Instance Storage
p3.2xlarge	1	N/A	16	8 (Broadwell)	61	Up to 10 Gbps	1.5 Gbps	N/A
p3.8xlarge	4	NVLink	64	32 (Broadwell)	244	10 Gbps	7 Gbps	N/A
p3.16xlarge	8	NVLink	128	64 (Broadwell)	488	25 Gbps	14 Gbps	N/A
p3dn.24xlarge	8	NVLink	256	96 (Skylake)	768	100 Gbps	14 Gbps	2 x 900 GB NVMe SSD

Name	Logical Processors*	RAM (GiB)
u-6tb1.metal	448	6,144
u-9tb1.metal	448	9,216
u-12tb1.metal	448	12,288

* Each logical processor is a hyperthread on 224 cores

Container

- Amazon EKS now available in Frankfurt

Serverless

- Amazon SQS now with VPC endpoints
- AWS Step Function now available in Paris
- AWS Gateway now with Websocket API

Network

- AWS Resource Access Manager
  - centrally create resources and use RAM to share them across accounts
  - Amazon Route 53 Resolver Rules, AWS Transit Gateways, Subnets, AWS License Manager Configurations
- AWS Transit Gateway now available in Frankfurt, London, Paris
- AWS VPN (Site-to-Site und Client)

Storage

- gp2 volumes increased perfromance from 10,000 IOPS to 16,000 IOPS and from 160 MB/s to 250 MB/s of throughput per volume.

Databases & Big Data

- RDS for PostgreSQL
  - system and upgrade logs to Cloudwatch Logs
  - Support for R5 instances
- AWS Batch & AWS Glue now available in Paris
- Redshift adds automatic VACUUM DELETE
- Amazon EMR now supports C5n, R5a, M5a

Databases & Big Data

- Amazon DocumentDB is here (us-east1, us-east2, us-west2, eu-west1)
  - MongoDB compatibility
  - 3 AZs by design
  - 35 days point-in-time recovery
  - Database Migration Service (MongoDB -> DocumentDB)

Deployment and Management

- CodePipeline now offers VPC Endpoints

Security

- GuardDuty now adds SNS notification topic

Others

- AWS Auto Scaling with Predictive Scaling for EC2 is now also available in Frankfurt and London

- Amazon EFS, EMR, Kinesis Data Streams, Kinesis Video Streams, Kinesis Data Firehose with 99,9% SLA

- Amazon API Gateway with 99,95% SLA

Pricing

- AWS Fargate price reduction
  - 20% for vCPU
  - 65% for memory

Events

- AWS Summit Berlin
  - February 26th & 27th at STATION Berlin
  - https://aws.amazon.com/de/events/summits/berlin/agenda/