

AWS

User Group

Munich / Germany



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AWS Important Releases

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Global Infrastructure

- Working on new regions in Canada, Israel, New Zealand, and Thailand -> Malaysia now in the works too!

Compute

- R6gd instances now available in London
- X2idn instances now available Zurich
- M7g and R7g (Graviton 3) instances now GA (US East 1 & 2, US West 2, Ireland)
- C7g instances now in Frankfurt
- Auto Scaling Group Instance Refresh Updates:
 - Standby or Protected instances terminate them, ignore them altogether, or wait until they return to in service/remove the protection
 - Automatic rollback on failure

Network

- VPC Resource Map now GA

VPC > Your VPCs > vpc-01...3

vpc-01...3 / channy-vpc

Actions ▼

Details Info

VPC ID vpc-01...3	State Available	DNS hostnames Enabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-01...3	Main route table rtb-06...06	Main network ACL acl-05...56
Default VPC No	IPv4 CIDR 10.0.0.0/17	IPv6 pool -	IPv6 CIDR (Network border group) -
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID i-01...01	

Resource map CIDRs Flow logs Tags

Resource map Info

VPC Show details
Your AWS virtual network

channy-vpc

Subnets (9)
Subnets within this VPC

us-west-2a

- channy-subnet-public1-us-west-2a
- channy-subnet-private4-us-west-2a
- channy-subnet-private1-us-west-2a

us-west-2b

- channy-subnet-public2-us-west-2b
- channy-subnet-private2-us-west-2b

Route tables (8)
Route network traffic to resources

- channy-rtb-private6-us-west-2c
- channy-rtb-private4-us-west-2a
- rtb-06...06
- channy-rtb-public** 3 subnet associations, 2 routes including local
- channy-rtb-private5-us-west-2b
- channy-rtb-private2-us-west-2b

Network connections (3)
Connections to other networks

- channy-igw**
- channy-nat-public1-us-west-2a
- channy-vpce-s3

Introducing the VPC resource map

The new resource map helps you visualize the resources in your VPC. It shows your VPC, subnets, route tables, internet gateways, NAT gateways,

Network

- Transit Gateway not available in Zurich

Serverless

- Lambda launches new CloudWatch metrics for asynchronous invocations
 - AsyncEventsReceived, AsyncEventAge, AsyncEventsDropped
- AWS App Runner
 - now supports HTTP to HTTPS redirect
 - introduces WAF support
 - Now available in Frankfurt

Databases & Big Data

- Redis now supports auto scaling in Spain & Zurich
- EMR on EKS adds support for job execution retries
- EMR Serverless now supports large worker sizes (you remember the Fargate update in Sept '22)
 - 8 vCPUs up to 60 GB RAM
 - 16 vCPUs up to 120 GB RAM
- RDS for MySQL, MariaDB & SQL Server adds new disaster recovery capabilities with Cross-Region Automated Backups
 - automatic replication of system snapshots and transaction logs
- Redshift introduces ROLLUP, CUBE, and GROUPING SETS in GROUP BY clause

Databases & Big Data

- RDS for PostgreSQL now supports major version PostgreSQL 15
- DocumentDB
 - change streams are now an event source for Lambda
 - DocumentDB 5.0 with support for MongoDB 5.0 wire protocol, client-side field level encryption, max storage 128 TiB and new aggregate operators for date fields
- Amazon Timestream now supports batch loading data
 - CSV on S3

Analytics & Monitoring

- SNS now supports AWS X-Ray active tracing
- CloudWatch announces increased quotas for Logs Insights
 - log group quota from 20 to 50
 - query timeout from 15min to 60min
 - query concurrency from 20 to 30
- CloudWatch RUM now supports customer defined
- CloudWatch Internet Monitor is now GA
 - Same data that AWS uses to monitor internet uptime and availability of their networks

DevTools / DevOps

- Step Functions
 - adds integration for 35 services and many API actions
 - Distributed Map available in Zurich and Spain

Security & Compliance

- GuardDuty now available in Spain
- Amazon Fraud Detector (AFD) launched AFD-Lists
 - Lists allow to reference a set of values in your AFD rules
- Cognito identity pool data events are now available in CloudTrail
- AWS WAF Captcha adds support for ten additional languages (including German)

AI/ML

- Amazon Forecast now supports built-in holiday data for 251 countries

Others

- Amazon Lightsail for Research

Others


- Amazon Lightsail for Research vs. Amazon Workspaces?

Lightsail for Research > Getting started

Choose application Info

Step 1: Choose application Step 2: Configure virtual computer

Get up and running quickly



Create your virtual computer
Create your first virtual computer by choosing the application you want to use, the location of the virtual computer and its performance specifications.

Start your work
After your virtual computer is up and running, open the application in your browser and upload your data.

AWS Region Info


Select an AWS Region for your virtual computer that is near your physical location.
The virtual computer will be accessible using the **default** key pair for the chosen region.

Region

Ohio (us-east-2) ▼

Application


Choose an application to install on your computer.



Ubuntu
20.04 LTS

Choose


Ubuntu is an open source Linux distribution based on Debian. Lean, fast and powerful, Ubuntu Server delivers services reliably, predictably and economically. It's a great base on which to build your virtual computers.



JupyterLab
1.0

Choose


JupyterLab is a web-based Integrated Development Environment (IDE) for notebooks, code, and data. With its flexible interface you can configure and arrange workflows in data science, scientific computing, computational journalism, and machine learning.



RStudio
1.0

Choose

RStudio is an open-source Integrated Development Environment (IDE) for R, a programming language for statistical computing and graphics, and Python. It combines a source code editor, build automation tools and a debugger, as well as tools for plotting and workspace



Scilab
1.0

Choose

Scilab is an open source numerical computational package and a high-level, numerically oriented programming language.

AWS Community & Events

- AWS Summit Berlin 2023 on May 4th
 - AWS Community Lounge Call for Speaker:
<https://link.aws-muc.de/community-summit-2023>
- AWS Community Day DACH 2023 on Sept 14th
 - ♥ In Munich ♥ (SmartVillage Bogenhausen)
 - We need sponsors!
- Next Meetup AWS UG Munich:
 - Wednesday April 19th at Wayra with Telefonica
(Meetup Listing coming soon!)