AWS User Group Oslo



https://meetup.com/AWS-User-Group-Norway/

About AWS User Group Oslo organizers

Organizers:



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Guest speakers:

Hans Henrik Sande (Webstep)

Håkon Drange

(Sopra Steria)

Javier Campa

(AWS UG Asturias) (Webstep)

Mikael Strand

(Webstep)



DEVOPS CLOUD-OPS



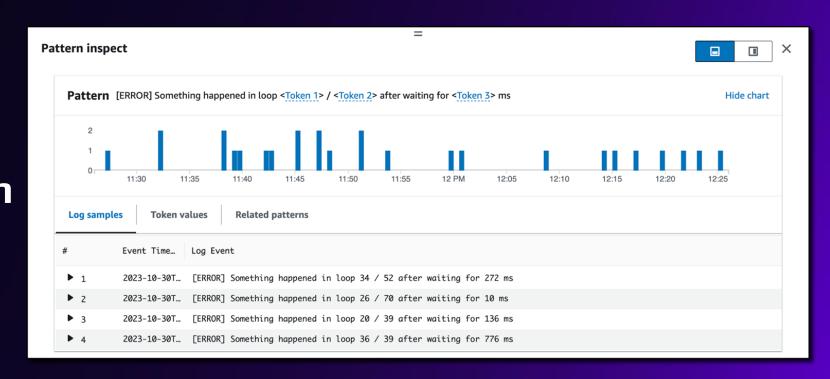
Amazon CloudWatch Pattern Analysis and Anomaly Detection

Patterns view visualizes recurring patterns while querying your logs

Compare mode helps you quickly find changes over time

Anomaly detection evaluates incoming logs against historical baselines

Amazon CloudWatch Pattern Analysis and Anomaly Detection



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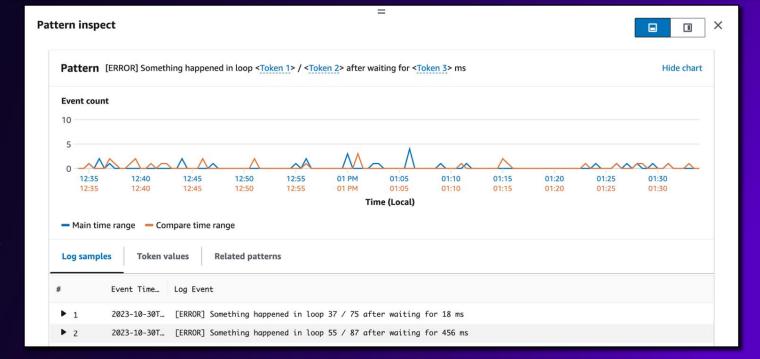


Patterns (7) Compare mode Add to query Export results ▼ Add to dashboard A pattern is a shared text structure that recurs in your logs. Click the magnifying glass icon to analyze a pattern. Q Filter patterns by pattern string, event count difference, difference description or keywords < 1 > **Event count** Difference Event Severity Inspect Pattern [ERROR] Something happened in loop <*> / <*> after waiting for <*> ms 27 -3 ↓ 10% decrease **ERROR** [INFO] All good in loop <*> / <*> after waiting for <*> ms 2,920 -129 ↓ 4% decrease INFO 60 END RequestId: <*> ↑ 2% increase +1 NONE REPORT RequestId: <*> Duration: <*> ms Billed Duration: <*> ms Memory Size: <*> MB 59 +1 ↑ 2% increase NONE Max Memory Used: <*> MB START RequestId: <*> Version: \$LATEST 59 -1 NONE REPORT RequestId: <*> Duration: <*> ms Billed Duration: <*> ms Memory Size: <*> MB 0 NONE No change Max Memory Used: <*> MB Init Duration: <*> ms INIT START Runtime Version: python: <*> Runtime Version ARN: arn; aws; lambda: 0 No change NONE <*>::runtime:<*>

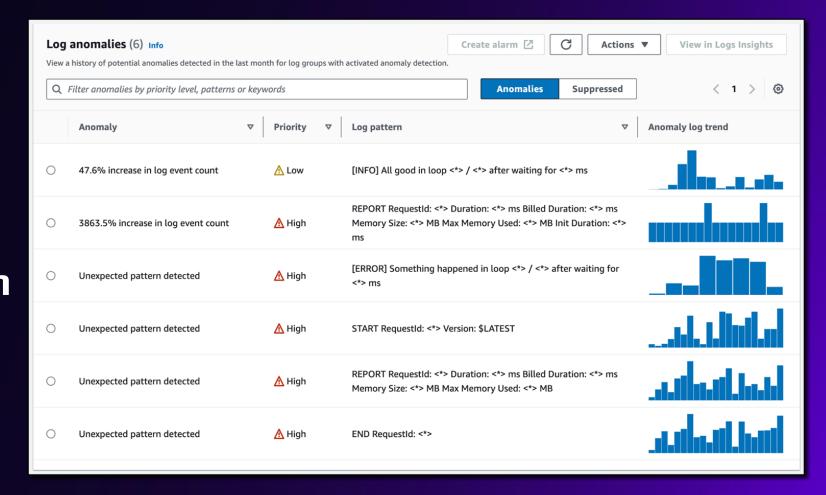
Patterns (7) - new

Logs (-)

Visualization



Amazon CloudWatch Pattern Analysis and Anomaly Detection

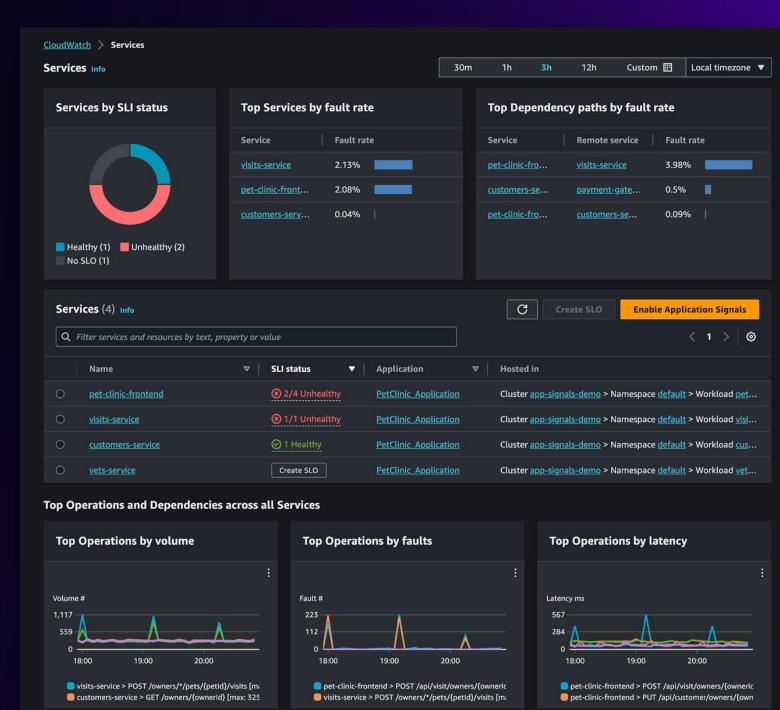


Anomaly detection evaluates incoming logs against historical baselines



IN PREVIEW

Amazon CloudWatch Application Signals



Service Level Objectives (SLO) Info

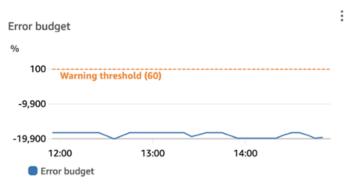
30m 1h 3h 12h Custom ⊞ Local timezone ▼ C

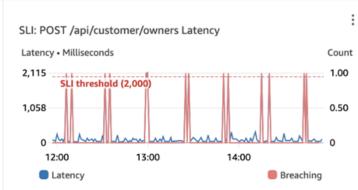
Show selected SLO from beginning of current interval

▼ SLO selected: Latency for Registering an Owner

If there are more than 1.4333 1-minute periods where the Latency is greater than 2000ms in 1 day rolling, the SLO goal of 99.9% will not be met.







Actions ▼

Create SLO

Service Level Objectives (SLO) (6) Info

Q Filter SLOs by text, property or value

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	. neer 2200 by tenty property or value							/
	SLO name	Goal ▽	SLI status 🔺	Ending attainment ▽	Attainm ▽	Ending error budge ▽	Ending error bud ▽	Service
0	Latency for Registering an Owner	99.9% 1 day rolling	⊗ Unhealthy	⊗ 80.3%	-1.5%	⊗ -19,587.2%	-4 hours	pet-clinic-frontend
0	Availability of Scheduling a Visit	95% 1 day rolling	⊗ Unhealthy	⊗ 93.5%	-0.2%	⊗ -29.1%	-21 minutes	visits-service
0	Availability of Listing Owners	99% 1 day rolling		⊘ 100%	0%	⊘ 100%	14 minutes	customers-service

Amazon CloudWatch Infrequent Access class

A new log class for cost-effective log consolidation

Best suited for logs that require infrequent querying, e.g. for forensic analysis

AWS Systems Manager Automation low-code Runbook design

Drag and drop automation actions and AWS APIs and connect them as steps

Features a guided flow, best practice recommendations, and error highlighting

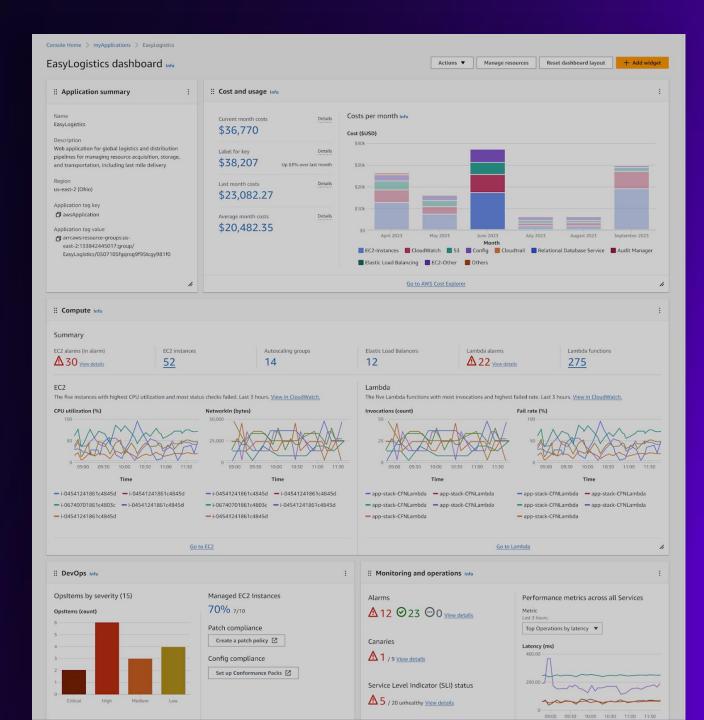
Integrates with Amazon CodeGuru Security for embedded Python scripts



Create Automation Runbooks with AWS Systems Manager Visual Designer

AWS Management Console **myApplications**

Monitor and manage the cost, health, security posture, and performance of your applications



Collector for Prometheus metrics from Amazon EKS

Amazon Managed Service for Prometheus collector, a fully-managed agentless collector customers can use to collect Prometheus metrics from their workloads running on Amazon EKS.

CloudWatch now supports hybrid and multicloud metrics querying and alarming

With this feature, you can consolidate and visualize metrics from sources such as:

- Amazon OpenSearch Service
- Amazon Managed Service for Prometheus
- Azure Monitor (!)
- your own custom data sources

Query in real time, increase visibility into your application health and resolve critical events faster.

AWS Config now supports periodic recording

Periodic recording captures the latest configuration changes of your resources once every 24 hours, reducing the number of changes delivered.

Both continuous and periodic recording options are priced based on the number of configurations items.

AWS Config now supports periodic recording

Recording method Recording strategy Customize AWS Config to record configuration changes for all supported resource types, or for only the supported resource types that are relevant to you. Globally recorded resources (RDS global clusters and IAM users, groups, roles, and customer managed policies) may be recorded in more than this Region. Learn more You are charged based on the number of configuration items recorded. Pricing details All resource types with customizable overrides AWS Config will record all current and future supported resource types in this Region. You can override the recording frequency for specific resource types will only record the resource types that you specify.

Default settings

Recording frequency

Configure the default recording frequency for all current and future supported resource types. It impacts the cost to your bill. Pricing details 🔀

Continuous recording

Record configuration changes continuously whenever a change occurs.

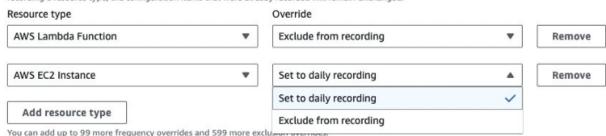
Daily recording

Receive configuration data once every day only if a change has occurred.

Override settings

Resource types to override Info

Override the recording frequency for specific resource types, or exclude specific resource types from recording. If you change the recording frequency for a resource type or stop recording a resource type, the configuration items that were already recorded will remain unchanged.



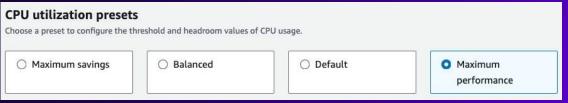
Customizable rightsizing recommendations for EC2 Instances

Customizable EC2 rightsizing recommendations within AWS Compute Optimizer.

The new 32 day lookback option (14 days is default) allows you to configure recommendations to use one month of utilization data when calculating the recommendation results.

Customizable rightsizing recommendations for EC2 Instances





AWS Control Tower landing zone operations APIs

Customers can discover, create, update, and reset their landing zones, as well as manage landing zone customizations, using APIs.

AWS Control Tower landing zone operations APIs

- CreateLandingZone
- DeleteLandingZone
- DisableControl
- EnableControl
- GetControlOperation
- GetEnabledControl
- GetLandingZone
- GetLandingZoneOperation
- ListEnabledControls
- ListLandingZones
- ListTagsForResource
- ResetLandingZone
- TagResource
- UntagResource
- UpdateEnabledControl
- UpdateLandingZone



AWS Control Tower landing zone operations APIs

```
"governedRegions": ["eu-west-1", "eu-central-1", "eu-north-1"],
 "organizationStructure": {
   "security": {
     "name": "CORE"
   "sandbox": {
     "name": "Sandbox"
 "centralizedLogging": {
   "accountId": "22222222222",
   "configurations": {
     "loggingBucket": {
        "retentionDays": 60
     "accessLoggingBucket": {
       "retentionDays": 60
     "kmsKeyArn": "arn:aws:kms:us-west-1:123456789123:key/e84XXXXX-
6bXX-49XX-9eXX-ecfXXXXXXXXX"
    "enabled": true
 "securityRoles": {
   "accountId": "33333333333333"
 "accessManagement": {
   "enabled": true
```

65 new controls to help meet digital sovereignty requirements in AWS Control Tower

With this release, you can discover 245+ controls under a new digital sovereignty group in the AWS Control Tower console.

AWS DeepRacer event - Oslo February 7th

AWS DeepRacer is the fastest way to get your team started with Machine Learning (ML). Utilize the virtual 3D racing simulator, 1/18th scale autonomous RC cars, and foster organization wide collaboration and competition!



Sign up here: https://aws-experience.com/emea/north/event/e4a30793-ce9a-4b6d-a0c7-555b5c81a1a4