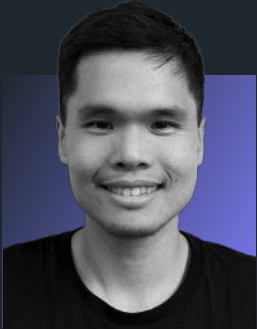# Checkmk Conference #10

Cloud monitoring made simple

The future of multi-step workflows

Pung Manosroi
Product Manager
Checkmk GmbH

Let's set up Cloud Monitoring in Checkmk

How hard could it be?

Main dashboard

checkmk

Monitor
Customize
Setup
Help
User
Sidebar

Dashboard   Add   Dashboards   Display   Help

Host statistics

1 Up
0 In downtime
0 Unreachable
0 Down
1 Total

Service statistics

60 OK
0 In downtime
0 On down host
2 Warning
0 Unknown
2 Critical
64 Total

Problem notifications

1

0.50

Total host problems

1
0.8
0.6
0.4
0.2
0

Sun 18:00   Mon 00:00   Mon 06:00   Mon 12:00

Total service problems

12
10
8
6
4
2
0

Sun 18:00   Mon 00:00   Mon 06:00   Mon 12:00

Percentage of total service problems

10.0%
8.0%
6.0%
4.0%

Main dashboard

checkmk

Monitor

Customize

Setup

Help

User

Sidebar

Search in Setup

show more •••

Hosts
Hosts
Host monitoring rules
Tags
Dynamic host management
Host groups

Services
Service monitoring rules
Discovery rules
HTTP, TCP, Email, …
Service groups

Agents
Windows, Linux, Solaris, AIX
Other operating systems
VM, cloud, container
Other integrations
Agent access rules
SNMP rules

Events
Notifications

Users
Users
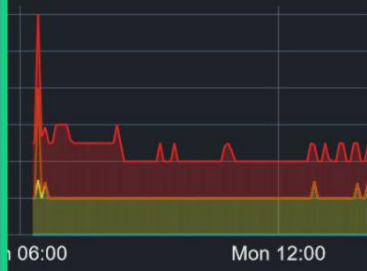Contact groups
Roles & permissions
SAML authentication

General
Rule search
Global settings
Time periods
Passwords
Distributed monitoring

Maintenance
Backups
Licensing
Support diagnostics
Analyze configuration

Main dashboard

checkmk

Monitor

Customize

Setup

Help

User

Sidebar

aws   ✕

Service monitoring rules

AWS/DynamoDB Latency

AWS/EBS Burst Balance

AWS/Glacier Limits

AWS/RDS Replica lag

AWS/ELB Statistics

AWS/S3 Bucket Requests

AWS/ELBv2 LCU

AWS/EC2 CPU Credits

AWS/RDS Disk Usage

AWS/DynamoDB Limits

Show all results

Enforced services

AWS/WAFV2 Web ACL Requests

AWS/S3 Latency

AWS/CE Total Reservation Utilization

AWS/Glacier Vaults

AWS/ELB Healthy Hosts

AWS/RDS Connections

AWS/RDS Limits

AWS/WAFV2 Limits

AWS/Glacier Vault Objects

AWS/RDS CPU Credits

Show all results
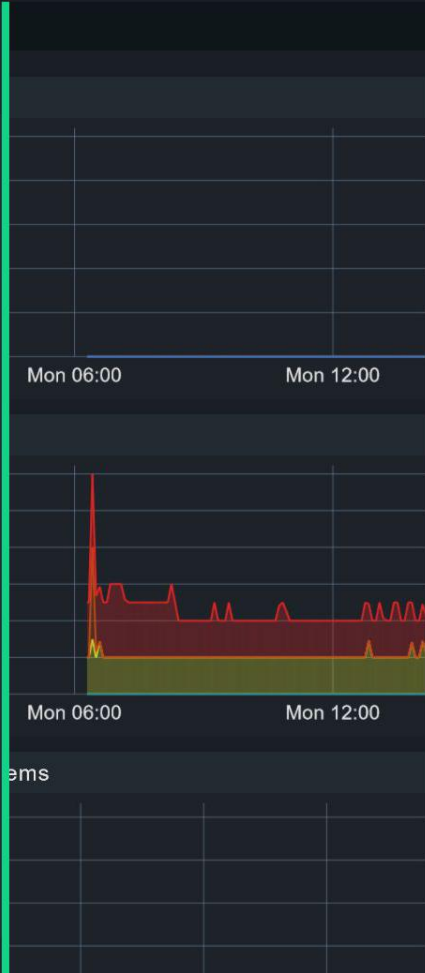
VM, cloud, container

Amazon Web Services (AWS) Status

Amazon Web Services (AWS)

Mon 06:00   Mon 12:00

Mon 06:00   Mon 12:00

Amazon Web Services (AWS)

No pending changes

Rules   Related   Display   Help   ⌃

➕ **Add rule**   ⭡ **VM, cloud, container**

ℹ️ **Matching:** The first matching rule defines the parameter.

There are no rules defined in this set.

Add rule: Amazon Web Services (AWS)

No pending changes

Monitor

Customize

Setup

Rule **Related** **Display** **Help** ⌃

✓ **Save**   ✕ **Cancel**   ⬆ **Amazon Web Services (AWS)**

⌄ Rule properties

show more ⋯

Description ....

Comment ....

Documentation URL ....

Rule activation .... ☐ do not apply this rule

⌄ Amazon Web Services (AWS)

The access key ID for your AWS account **(required)**

The secret access key for your AWS account

Explicit ▾

☐ Proxy server details

Access to AWS API

  ☐ Use custom region for global AWS services

  ☐ Use STS AssumeRole to assume a different IAM role

Global services to monitor

Help

User

Sidebar

Rule   Related   Display   Help   ⌃

✓ Save   ✕ Cancel   ⬆ Amazon Web Services (AWS)

⌄ Rule properties   show more ⋯

Description ....

Comment ....

Documentation URL ....

Rule activation .... ☐ do not apply this rule

⌄ Amazon Web Services (AWS)

The access key ID for your AWS account (required)

AKIAJ25LEKPV2QGJDZZA

The secret access key for your AWS account

Explicit ▾   •••••••••••••••••••••••••••

☐ Proxy server details

Access to AWS API

☐ Use custom region for global AWS services

☐ Use STS AssumeRole to assume a different IAM role

Global services to monitor

Add rule: Amazon Web Services (AWS)

Rule   **Related**   **Display**   **Help**   ⌃

✓ Save   **✗ Cancel**   **⬆ Amazon Web Services (AWS)**

Services per region to monitor

☒ Elastic Compute Cloud (EC2)

    Selection of service instances

      Gather all service instances and restrict by overall AW... ▾

    ☒ Service limits

      Monitor service limits

☒ Elastic Block Storage (EBS)

    Selection of service instances

      Gather all service instances and restrict by overall AW... ▾

    ☒ Service limits

      Monitor service limits

☒ Simple Storage Service (S3)

    Selection of service instances

      Gather all service instances and restrict by overall AW... ▾

    ☒ Service limits

      Monitor service limits

    ☐ Request metrics

Add rule: Amazon Web Services (AWS)

No pending changes

Rule   Related   Display   Help   ⌃

✓ Save   ✗ Cancel   ⬆ Amazon Web Services (AWS)

☒ Service limits
  Monitor service limits
☒ CloudFront WAFs
  Monitor CloudFront WAFs

Piggyback names
IP - region - instance... ▾

☐ Restrict monitoring services by one of these AWS tags

Conditions

Condition type .... Explicit conditions ▾

Folder .... Main ▾

Host tags .... ▾   Add tag condition

Host labels ....   ⊕ Add to condition

Explicit hosts .... ✗   (Select hostname) ▾   (Select hostname) ▾
                                             ☐ **Negate:** make rule apply for **all but** the above hosts

???

Use the docs, Pung

Monitoring Amazon Web Services (AWS)

Related Articles ▾

Last modified on 11-Jul-2023

Edit this page on GitHub ✏

1. Introduction

Checkmk includes a extensive module for monitoring Amazon Web Services (AWS), consisting of a connector to AWS and a comprehensive collection of check plug-ins that retrieve and evaluate various metrics and statuses for you.

In addition to general information about the costs⧉ that are incurred by your AWS environment and the current status⧉ of AWS in your region, you can monitor the following AWS products with all editions of Checkmk:

- Elastic Compute Cloud (EC2)⧉
- Elastic Block Store (EBS)⧉
- Simple Storage Service (S3)⧉ and S3 Glacier⧉
- Relational Database Service (RDS)⧉
- DynamoDB⧉
- Elastic Load Balancing (ELB) - Application, Network, Classic⧉
- CloudWatch⧉
- AWS Web Application Firewall (WAF)⧉

With the 🟢 **Checkmk Cloud Edition** you can also include the following products in your monitoring system:

- AWS Lambda⧉
- Elastic Container Service (ECS)⧉
- Route 53⧉
- CloudFront⧉

checkmk

Monitor

Customize

Setup

Help

User

Sidebar

Search in Setup

show more •••

Hosts

Hosts

Host monitoring rules

Tags

Dynamic host management

Host groups

Services

Service monitoring rules

Discovery rules

HTTP, TCP, Email, …

Service groups

Agents

Windows, Linux, Solaris, AIX

Other operating systems

VM, cloud, container

Other integrations

Agent access rules

SNMP rules

Events

Notifications

Users

Users

Contact groups

Roles & permissions

SAML authentication

General

Rule search

Global settings

Time periods

Passwords

Distributed monitoring

Maintenance

Backups

Licensing

Support diagnostics

Analyze configuration

Mon 12:00

Mon 12:00

Add host

No pending changes

Host   Display   Help   ⌃

🧊 **Save & run service discovery**   📁 **Save & view folder**   ⚡ **Save & run connection tests**   ⬆ **Main**

⌄ Basic settings   show more ⋯

Host name **(required)** .... [   ]

⌄ Network address   show more ⋯

IP address family .... ✕ | IPv4 only ⌃ |

IPv4 address .... ☐   IPv4 only

                                                            IPv6 only

⌄ Monitoring agents   show more ⋯

                                                            IPv4/IPv6 dual-stack

Checkmk agent / API integrations ..☐   ...igured, else Checkmk agent (Default value)
SNMP .... ☐   No IP SNMP (Default value)

⌄ Custom attributes   show more ⋯

Labels .... ☐   (Default value)

⌄ Management board

checkmk

Add rule: Amazon Web Services (AWS)
Setup > Agents > VM, cloud, container > Amazon Web Services (AWS) > Add rule: Amazon Web Services (AWS)

No pending changes

Monitor

Customize

Setup

Help

User

Sidebar

Rule   Related   Display   Help   ⌃

✓ Save   ✕ Cancel   ⬆ Amazon Web Services (AWS)

✕ Service limits
  Monitor service limits
✕ CloudFront WAFs
  Monitor CloudFront WAFs

Piggyback names

IP - region - instance... ▾

☐ Restrict monitoring services by one of these AWS tags

⌄ Conditions

Condition type .... Explicit conditions ▾

Folder .... Main ▾

Host tags .... ▾   Add tag condition

                                         ⊕ Add to condition

Explicit hosts .... ✕ AWS ✕ ▾   (Select hostname) ▾

                                         ☐ Negate: make rule apply for all but the above hosts

Main dashboard

checkmk

Monitor

Customize

Setup

Help

User

Sidebar

dcd

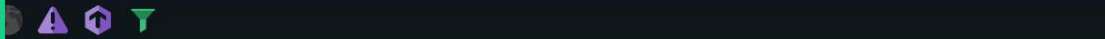## Setup

Dynamic host management

Global settings

Connection to the REST API

Dynamic configuration logging

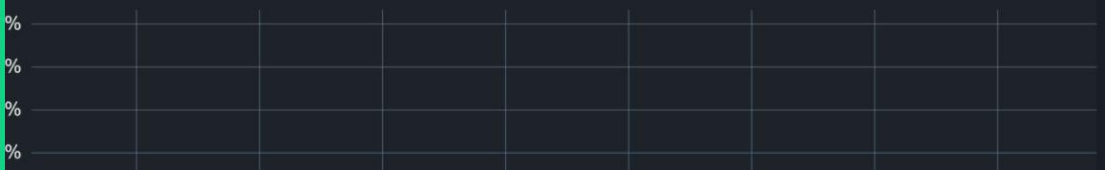## Total host problems

1

.8

.6

.4

.2

0

Sun 18:00   Mon 00:00   Mon 06:00   Mon 12:00

Total service problems

12

10

8

6

4

2

0

Sun 18:00   Mon 00:00   Mon 06:00   Mon 12:00

Percentage of total service problems

%

%

%

%

%

checkmk

Monitor

Customize

Setup

Help

User

Sidebar

Connection   Display   Help   ⌃

✅ Save   ↑ **Dynamic host management**

⌄ **General properties**   show more •••

Unique ID ···   connection_1
Title (required) ·································   aws-dcd
Comment ···

Activation ··   ☐ do not activate this connection
Site ···   beta - The central ... ▾

⌄ **Connection properties**   show more •••

Connector type ·································   Piggyback data ▾
                                                              ☐ Restrict source hosts
Sync interval
                                                              [0] days [0] hours [1] mins [0] secs

Piggyback creation options (required)
                                                              Create hosts in
                                                              [Main ▾]
                                                              Delete vanished hosts

Changes   Related   Display   Help

✅ **Activate on selected sites**

∨ Activation status

Actions	Site	Status	Version	Changes	Progress	Details
✕ ✏ ⟳	The central site	online	2.3.0-2024.06.03	1		Activation needed

∨ Pending changes

Time	User	Change	Affected sites
2024-06-03 16:27:42	cmkadmin	Edited the connection 'connection_1'	*All sites*

checkmk

Monitor

Customize

Setup

Help

User

Sidebar

Host   Display   Help   ⌃

Save & run service discovery   📦 **Save & view folder**   ⚡ **Save & run connection tests**   ⬆ **Main**

⌄ **Basic settings**   show more ⋯

Host name (required) ....   AWS

⌄ **Network address**   show more ⋯

IP address family .... ✖   No IP ▾

⌄ **Monitoring agents**   show more ⋯

Checkmk agent / API integrations ... ☐   API integrations if configured, else Checkmk agent (Default value)
SNMP .... ☐   No SNMP (Default value)

⌄ **Custom attributes**   show more ⋯

Labels .... ☐   (Default value)

❯ **Management board**

Monitor

Customize

Setup

Help

User

Sidebar

checkmk

Commands   Hosts   Export   Display   Help

12 rows

Local site prod

State	Host	Icons	OK	Wa	Un	Cr	Pd
UP	a2fae7b311d4a4c7ab18f3b23a81f1bb-367913522.eu-central-1.elb.amazonaws.com		9	0	0	0	0
UP	i-097d561a218e0590b.eu-central-1.compute.internal		11	0	0	0	0
UP	i-00af54afc6a70496d.eu-central-1.compute.internal		11	0	0	0	0
UP	ip-15-0-3-186.eu-central-1.compute.internal		10	0	0	0	0
UP	i-0d7776d349d81f15c.eu-central-1.compute.internal		10	0	0	0	0
UP	af9a2fda71083426e9b7abb5bd7edecd-1345551199.eu-central-1.elb.amazonaws.com		9	0	0	0	0
UP	a9eeb2d78df1c439daaf7f080dd3a8db-1069581365.eu-central-1.elb.amazonaws.com		9	0	0	0	0
UP	adc2a028708394df79f005f11100a57d-263302414.eu-central-1.elb.amazonaws.com		4	0	0	0	0
UP	i-0c8dca59e0fc7ef61.eu-central-1.compute.internal		10	0	0	0	0
UP	a6a889b0d34644d71b1c264bb0fe21af-1292020904.eu-central-1.elb.amazonaws.com		9	0	0	0	0
UP	a449cc04fc7c14778a0127675d48c382-699988482.eu-central-1.elb.amazonaws.com		9	0	0	0	0
UP	AWS		152	0	0	0	0

Monitor

Customize

Setup

Help

AWS Lambda Notification Forwarder

Monitor > Other > AWS Lambda Notification Forwarder

Dashboard   Add   Dashboards   Display   Help

Concurrency

Concurrency

Summary

Concurrent executions in percent: 0%

OK

Performance

Performance

Summary

Invocations: 0.0000/s

OK

Memory

Memory

Summary

Code size: 0 B, Code size in percent: 0%

OK

Code Size

512.00 B

473.00 B

0

Memory Size

64 MB
48 MB
32 MB
16 MB
0

Fri 00:00

Invocations

0.01/s
0.00/s
0.00/s
0.00/s
0.00/s
0

Thu 16:00   Thu 20:00   Fri 00:00   Fri 04:00   Fri 08:00   Fri 12:00

Concurrent executions in percent

0.2%
0.15%
0.1%
0.05%
0

400 ms
300 ms
200 ms
100 ms

2.5%
2.0%
1.5%
1.0%
0.5%
0

100%
80.0%
80.0%
40.0%
20.0%
0

1.00/s
0.80/s
0.60/s
0.40/s
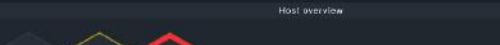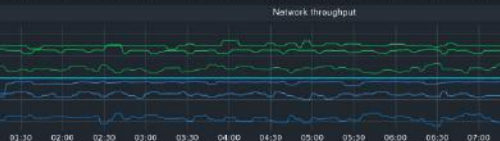0.20/s

AWS EC2 instances

Monitor > Cloud > AWS EC2 instances

Dashboard   Add   Dashboards   Display   Help

EC2 services OK/Total

27/27

EBS health OK/Total

5/5

Instances

EC2 Instance	CPU utilization	Disk IO	Network IO
15.0.0.207-eu-central-1-i-0c8dca59e0fo7ef61	5.57%		295 kbit/s / 145 kbit/s
15.0.3.186-eu-central-1-i-04998884db9ab59be	20.5%		267 kbit/s / 67.8 kbit/s
15.0.11.75-eu-central-1-i-0d7776d049d81f15c	5.84%		77.4 kbit/s / 363 kbit/s
webserver.company.com	2.84%	0.00 B/s / 0.00 B/s	3.84 kbit/s / 7.35 kbit/s
windows-server.company.com	2.07%	0.00 B/s / 0.00 B/s	1.23 kbit/s / 1.98 kbit/s

CPU utilization

40.0%
30.0%
20.0%
10.0%

00:30 01:00 01:30 02:00 02:30 03:00 03:30 04:00 04:30 05:00 05:30 06:00 06:30 07:00

Network throughput

400
200
0
200
400

00:30 01:00 01:30 02:00 02:30 03:00 03:30 04:00 04:30 05:00 05:30 06:00 06:30 07:00

Disk throughput

1 B/s
0.50 B/s
0
0.50 B/s
1 B/s

00:30 01:00 01:30 02:00 02:30 03:00 03:30 04:00 04:30 05:00 05:30 06:00 06:30 07:00

Disk operations

1.00/s
0.50/s
0
0.50/s
1.00/s

00:30 01:00 01:30 02:00 02:30 03:00 03:30 04:00 04:30 05:00 05:30 06:00 06:30 07:00

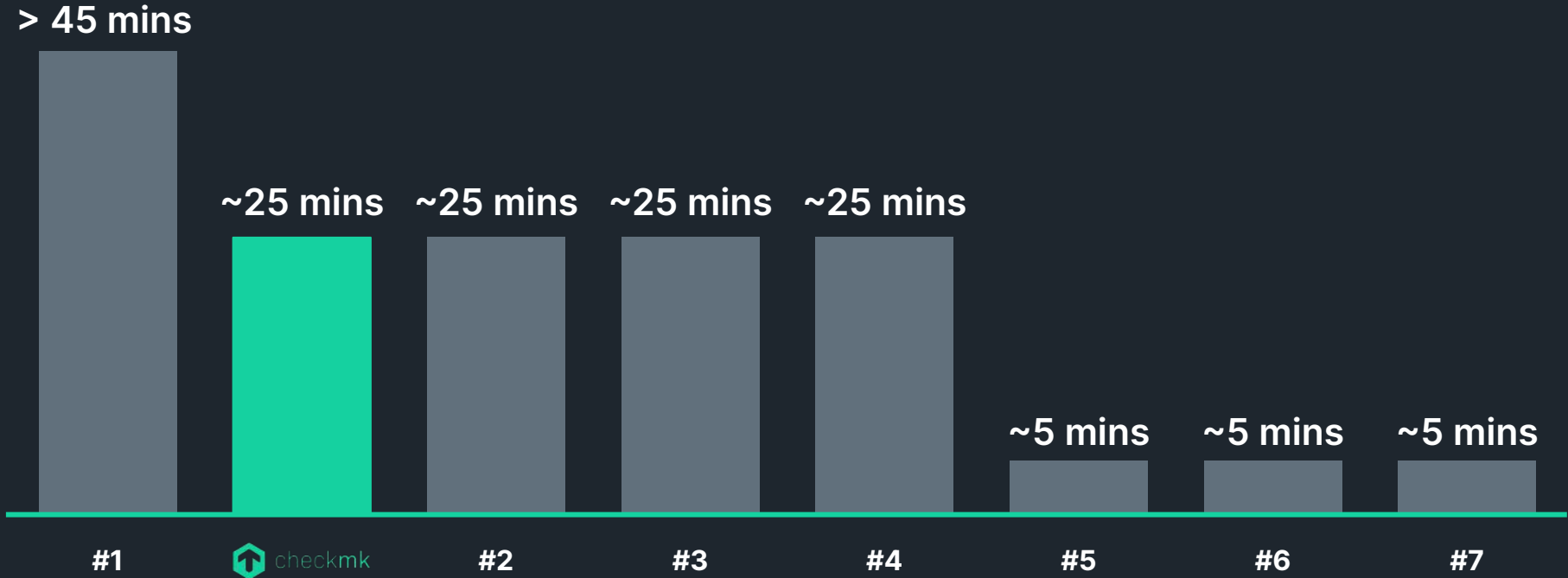### Host overview

THE END

Checkmk
Conference

THE END?

Checkmk
Conference

What have I learned?

Time to set up AWS monitoring

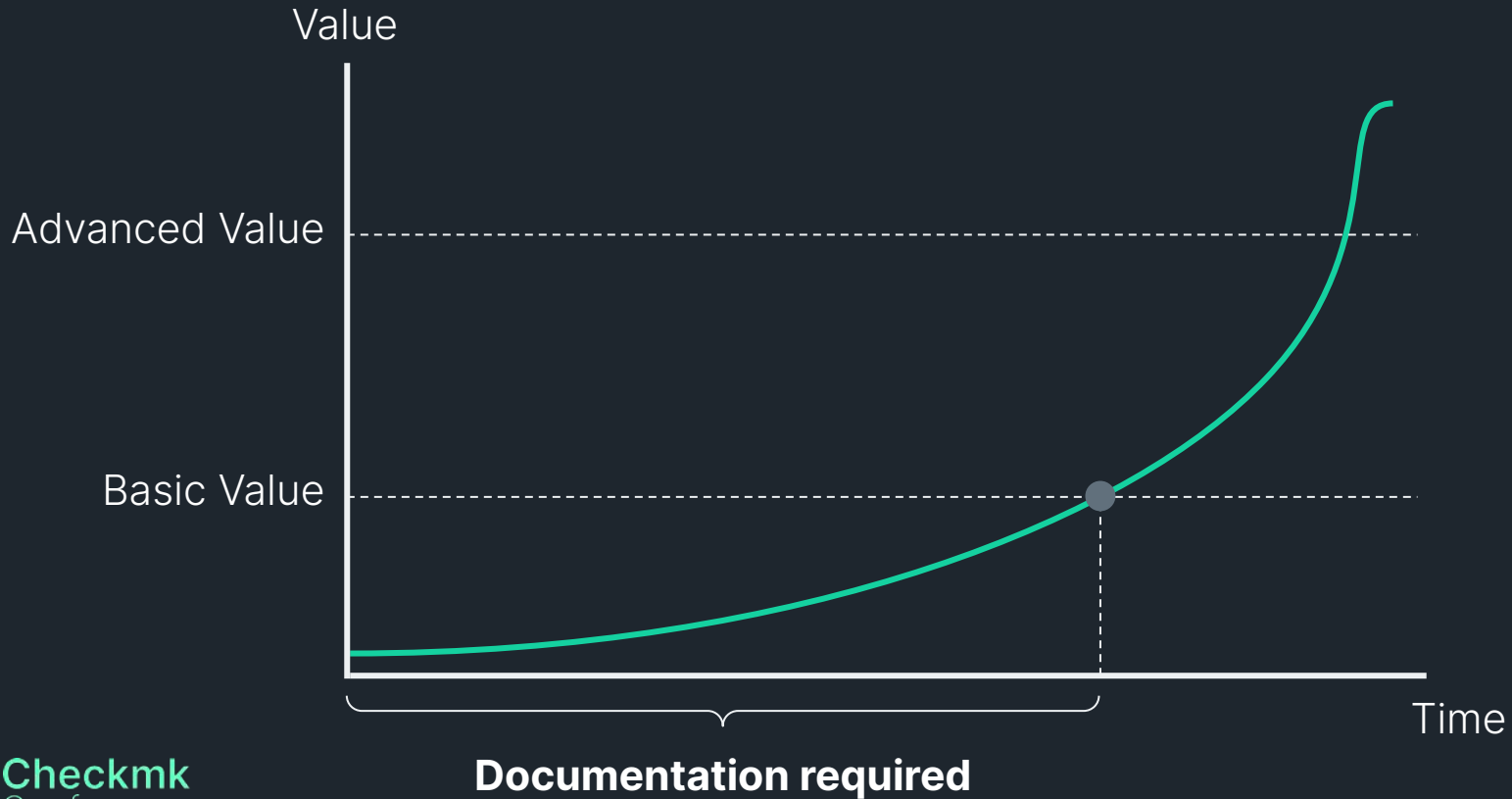*Internal evaluation. Specifically for setting up AWS monitoring.

> 45 mins

~25 mins   **~25 mins**   **~25 mins**   **~25 mins**

~5 mins   **~5 mins**   **~5 mins**

#1   checkmk   **#2**   **#3**   **#4**   **#5**   **#6**   **#7**

Checkmk
Conference

28

More features, more complexity
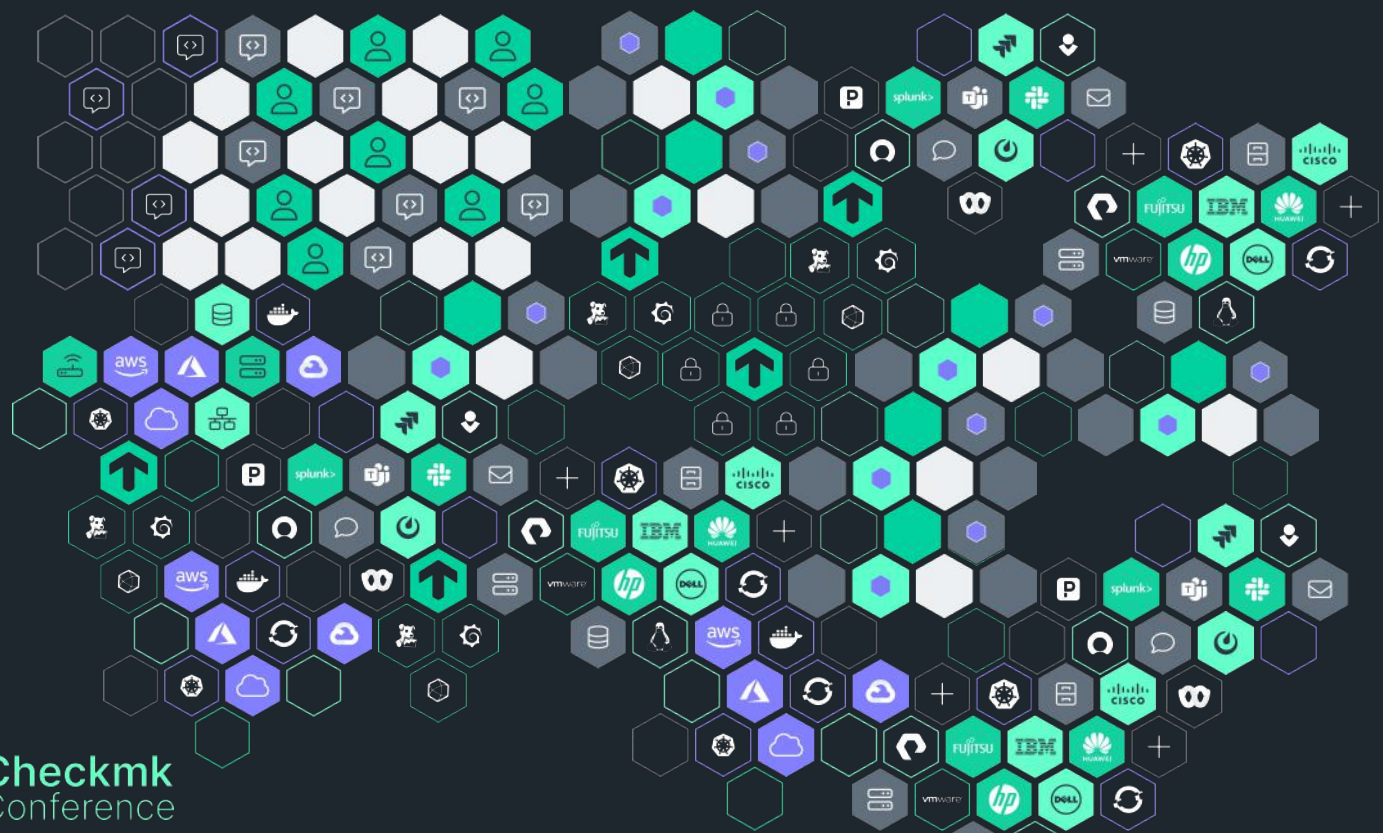
Making experience simple
=
Difficult tech and design challenges

(law of conservation of complexity)

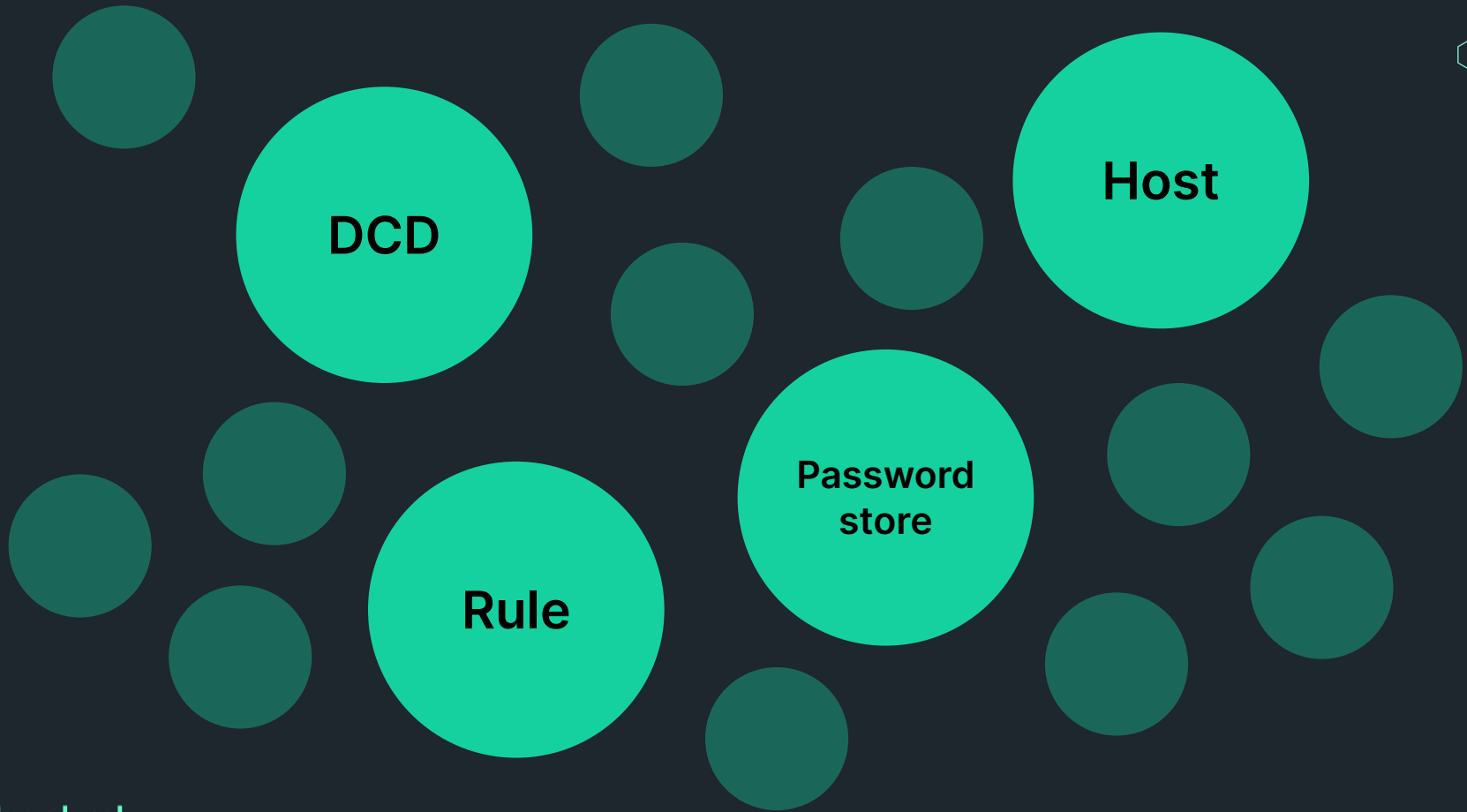# Time to Value (TTV)

Goal: Bring TTV down to ~5-10 mins
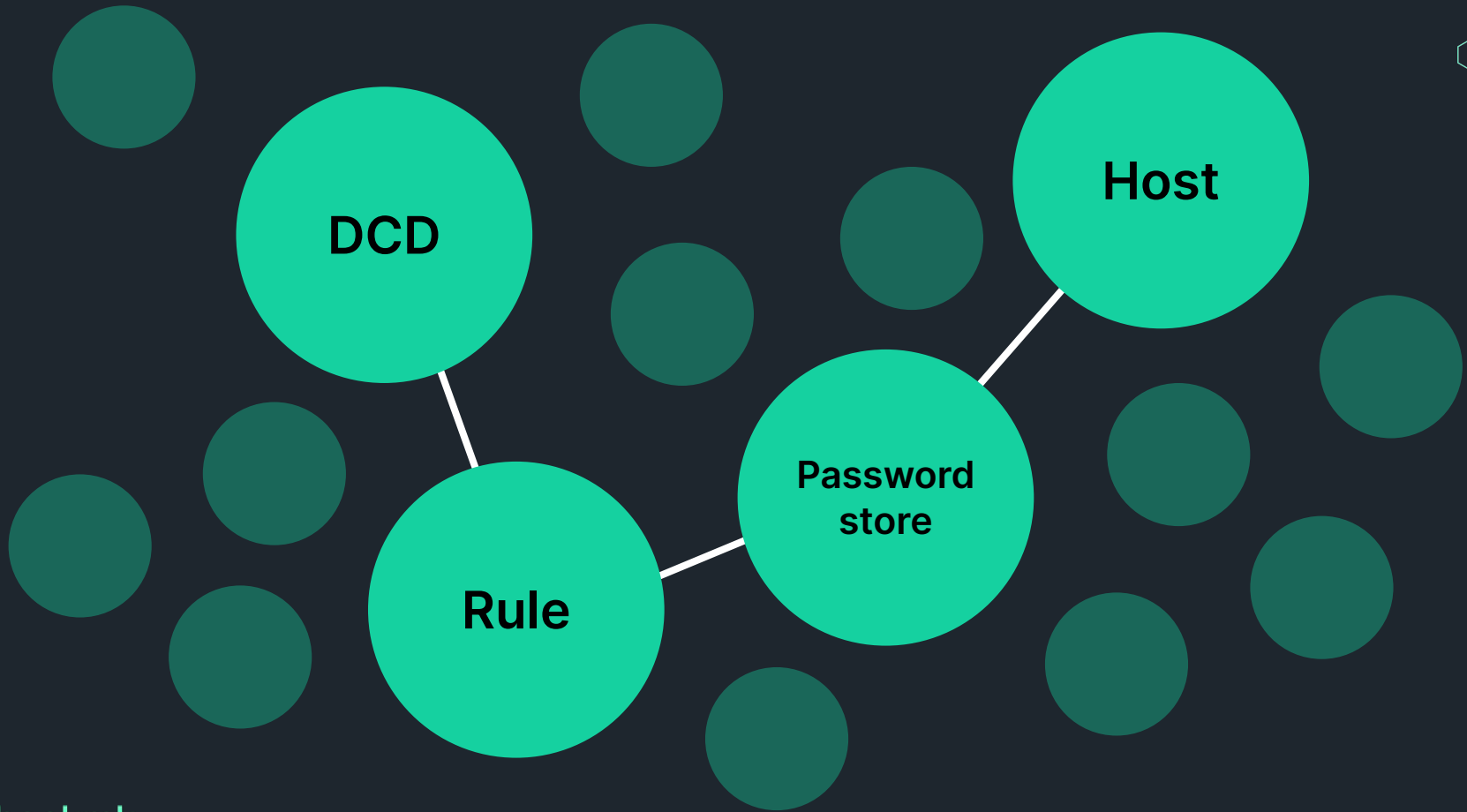
Time to Value (TTV)

Time to Value (TTV)

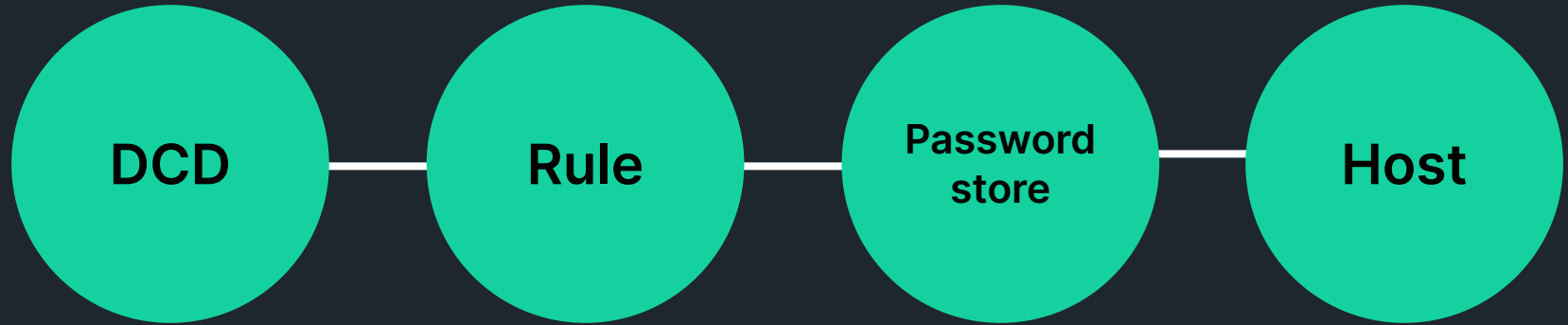**10**

Value

Advanced Value ------

Basic Value ------

No documentation required

Documentation required

Time

Checkmk
Conference

34

But how?

Checkmk
Conference

DCD

Host

Password store

Rule
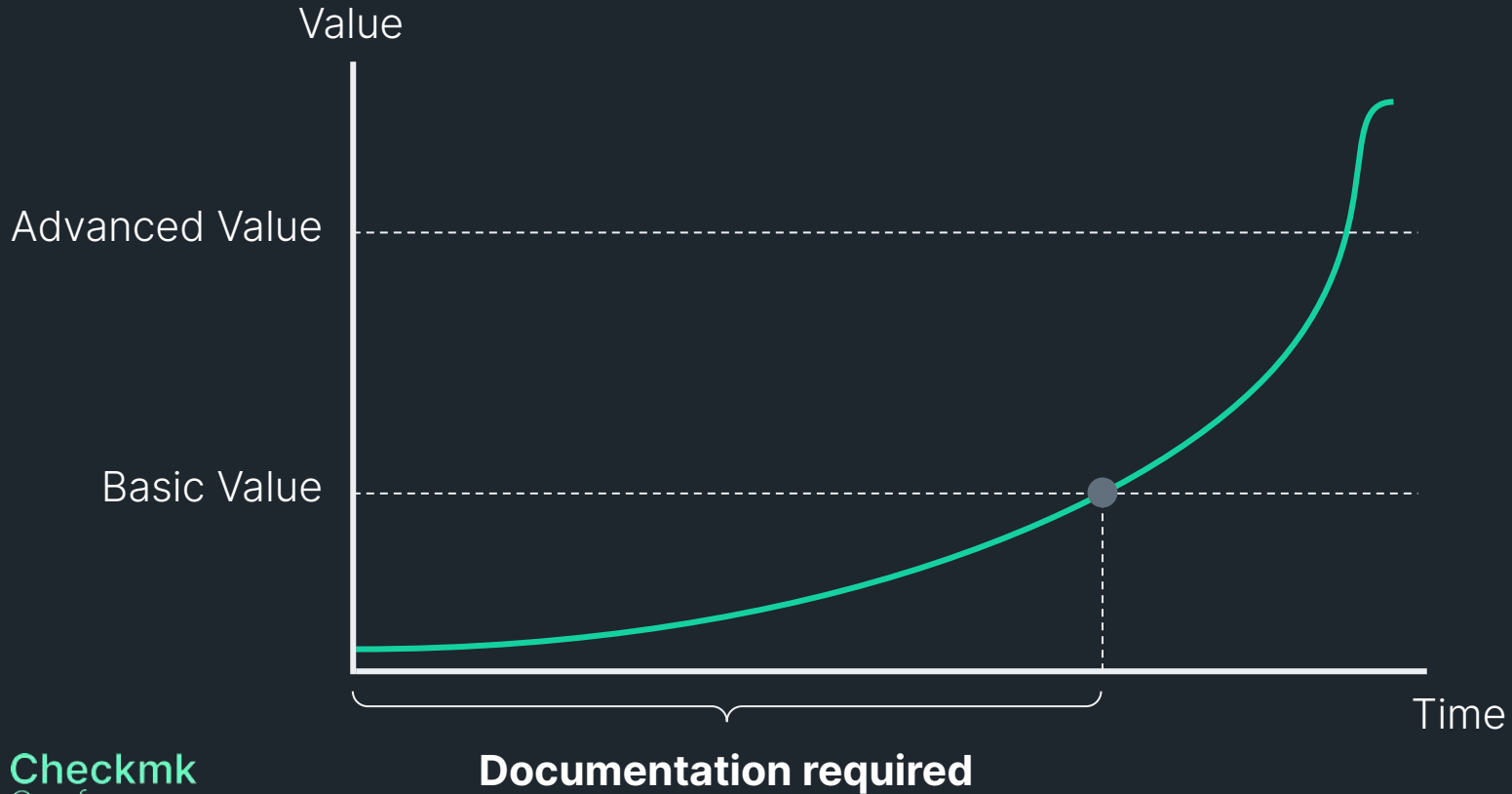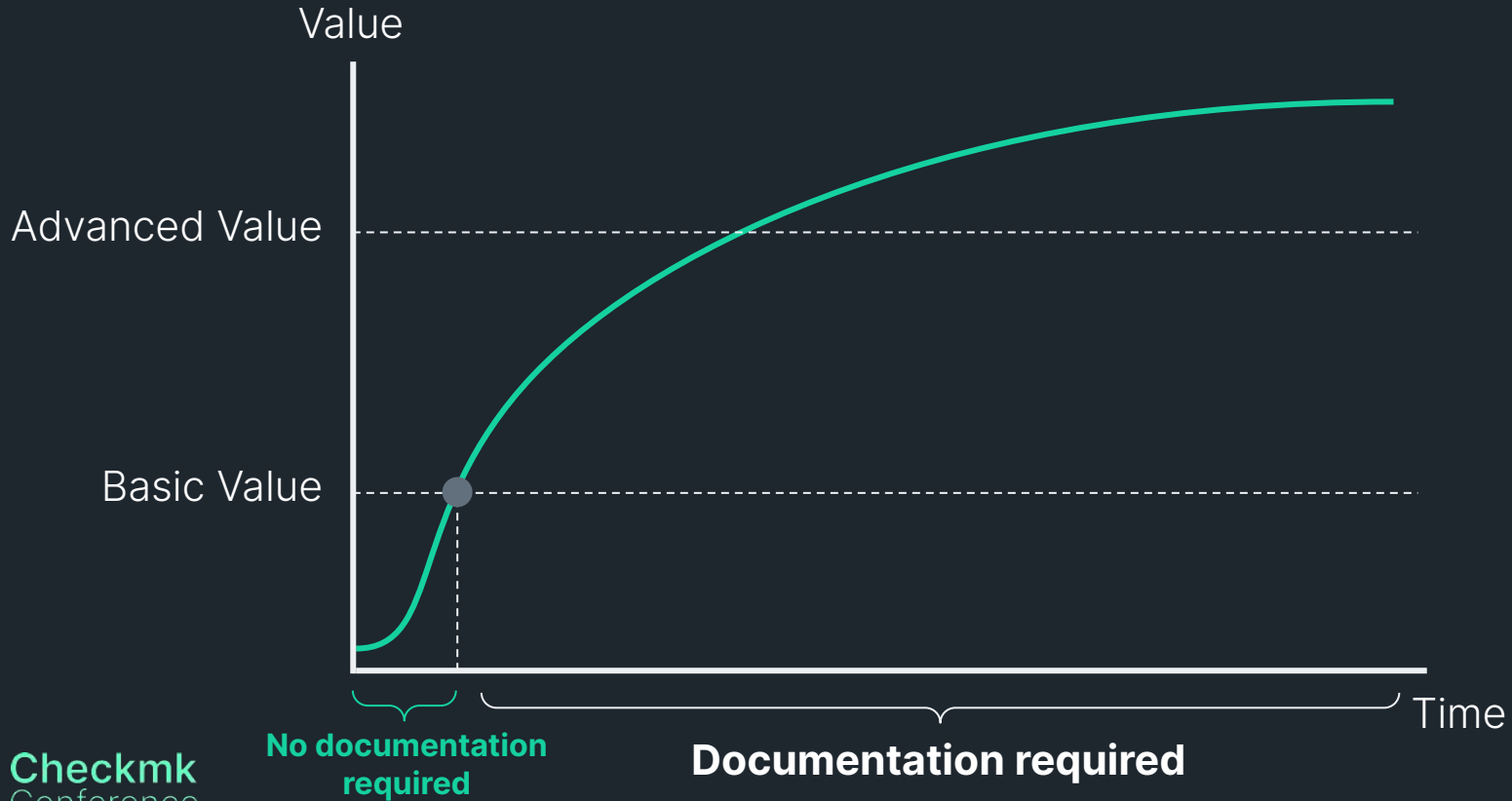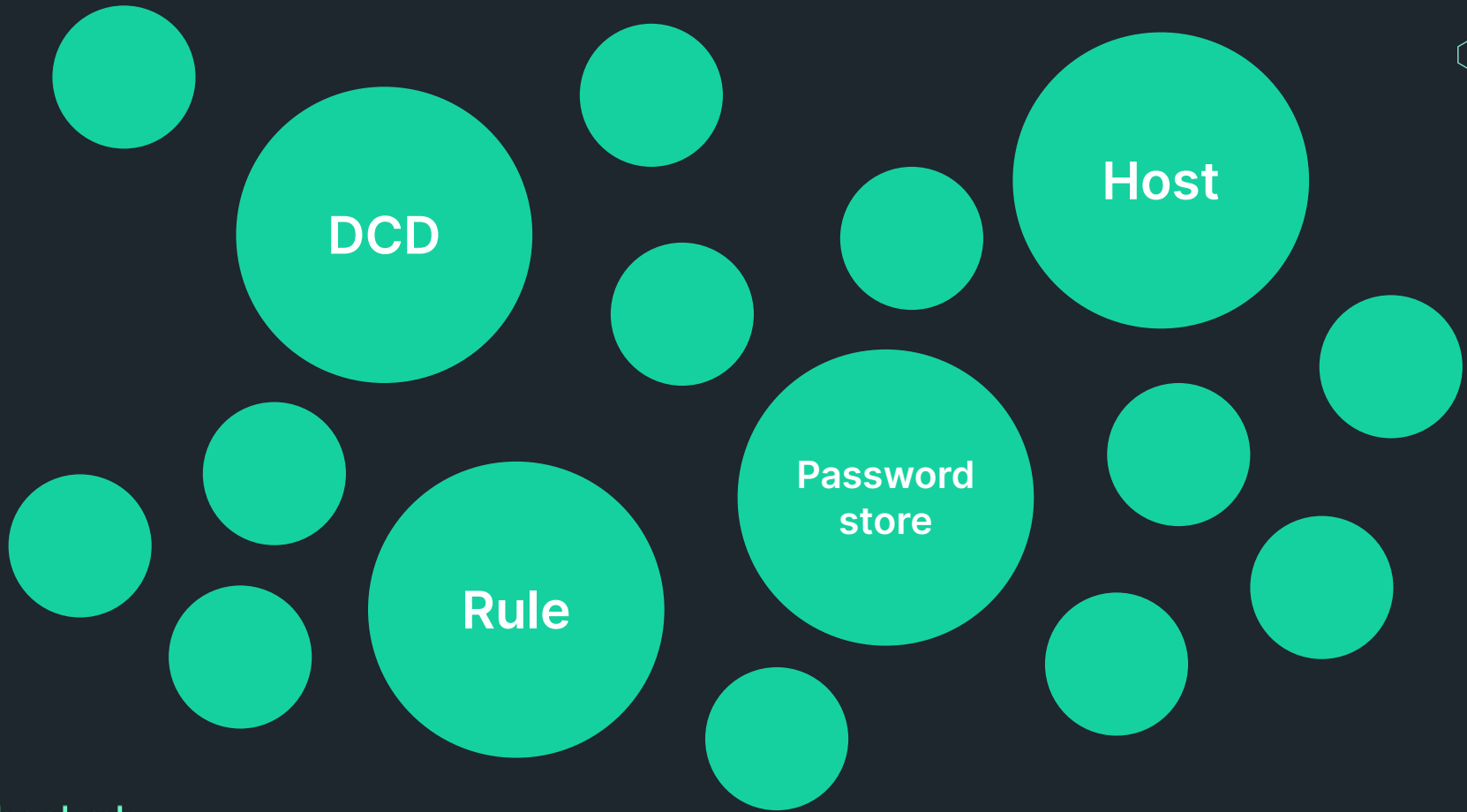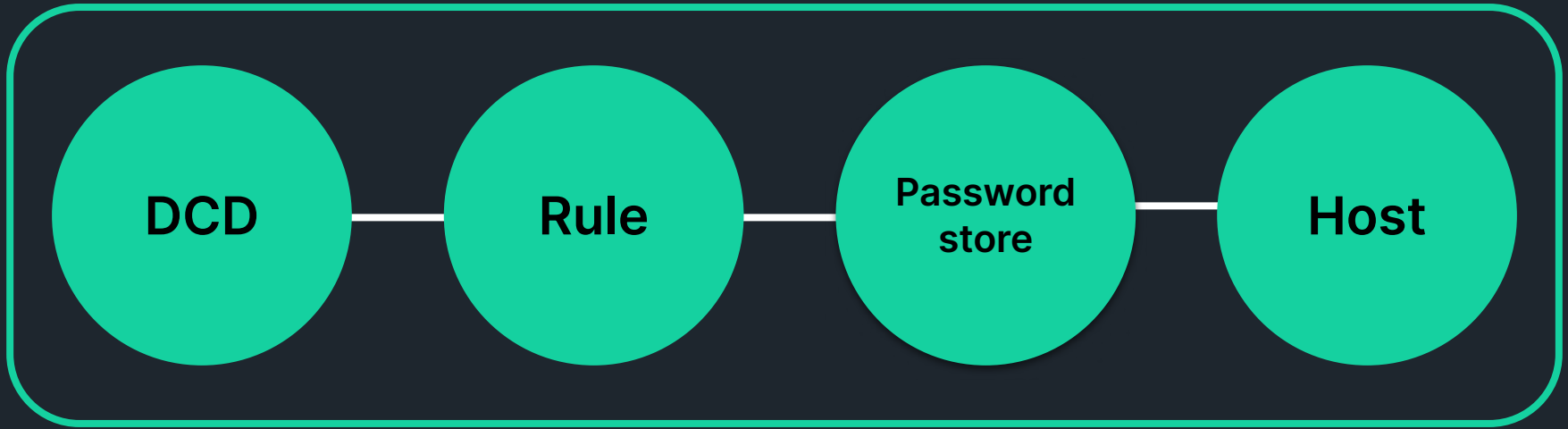
Checkmk
Conference

Multi-step workflows in Checkmk 2.4

subject to change

Checkmk
Conference

checkmk

Monitor

Customize

Setup

Search in Setup

show less ⋯

Fast Setup

🔧 **Fast Setup**

- Amazon Web Service (AWS)
- Google Cloud Platform (GCP)
- Azure Cloud

📊 **Hosts**

- Hosts
- Host monitoring rules
- Tags
- Dynamic host management
- Host groups
- Custom host attributes
- HW/SW inventory rules

📡 **Services**

- Service monitoring rules
- Discovery rules
- Enforced services
- HTTP, TCP, Email, ...
- Other services
- Service groups

👥 **Users**

- Users
- Contact groups
- Roles & permissions
- LDAP & Active directory
- SAML authentication
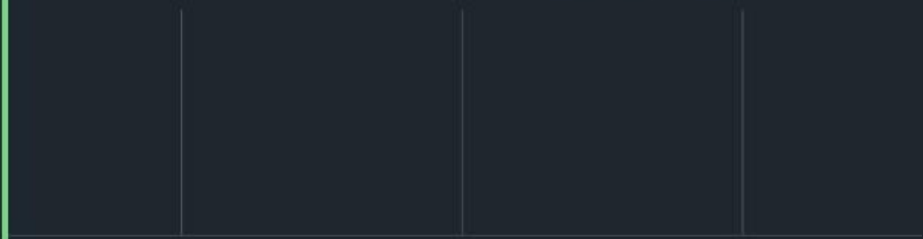- Custom user attributes

⊞ **General**

- Rule search
- Global settings
- Read only mode
- Predefined conditions
- Time periods
- Passwords
- Distributed monitoring
- Audit log
- Custom icons

⊞ **Maintenance**

- Backups

Total host problems

Fri 20:00   Sat 00:00   Sat 04:00

Total service problems

Fri 20:00   Sat 00:00   Sat 04:00

Percentage of total service problems

Integration: Amazon Web Services (AWS)

⊞ Add new AWS configuration

Add AWS configuration

1 Prepare AWS for Checkmk

1. Go to AWS root account > Services > IAM.
2. Click "Add user" under Users, select "Access key - Programmatic access", and attach the "**ReadOnlyAccess**" policy*.
3. Save the generated access key and secret key and use it below.

Since this is a ReadOnlyAccess, we won't create any resources on your AWS account.

Access key ID:

Secret access key:

⬇ Next: Configure host & region

2 Configure host & region

Name your host, path, and select region you would like to monitor

3 Configure services to monitor

Select & configure AWS services you would like to monitor

4 Review & run service discovery

Run service discovery

Monitor

Customize

Setup

Add AWS configuration

1 **Prepare AWS for Checkmk**

1. Go to AWS root account > Services > IAM.
2. Click "Add user" under Users, select "Access key - Programmatic access", and attach the "**ReadOnlyAccess**" policy*.
3. Save the generated access key and secret key and use it below.

Since this is a ReadOnlyAccess, we won't create any resources on your AWS account.

Access key ID: AKIAJ25LEKPV2QGJDZZA

Secret access key: ....

⬇ **Next: Configure host & region**

2 **Configure host & region**

Name your host, path, and select region you would like to monitor

3 **Configure services to monitor**

Select & configure AWS services you would like to monitor

4 **Review & run service discovery**

Run service discovery

Add AWS configuration

1 **Prepare AWS for Checkmk**

Access Key ID: AKIAJ25LEKPV2QGJDZZA

Secret access key: ••••••••••••••••••••••••••••••••••••e00c

2 **Configure host & region**

Name your host, path, and select region you would like to monitor

Host name: AWS-01

Host path: Main/aws

Region to monitor:
- [ ] Africa (Cape Town) | af-south-1
- [ ] Asia Pacific (Hong Kong) | ap-east-1
- [ ] Asia Pacific (Hyderabad) | ap-south-2
- [ ] Asia Pacific (Jakarta) | ap-southeast-3
- [ ] Asia Pacific (Mumbai) | ap-south-1
- [ ] Asia Pacific (Osaka-Local) | ap-northeast-3
- [ ] Asia Pacific (Seoul) | ap-northeast-2
- [ ] Asia Pacific (Singapore) | ap-southeast-1
- [ ] Asia Pacific (Sydney) | ap-southeast-2
- [ ] Asia Pacific (Tokyo) | ap-northeast-1
- [ ] Canada (Central) | ca-central-1
- [ ] China (Beijing) | cn-north-1
- [ ] China (Ningxia) | cn-northwest-1
- [ ] Europe (Frankfurt) | eu-central-1
- [ ] Europe (Ireland) | eu-west-1
- [ ] Europe (London) | eu-west-2
- [ ] Europe (Milan) | eu-south-1
- [ ] Europe (Paris) | eu-west-3

Back   **Next: Configure services to monitor**

3 **Configure services to monitor**

Add AWS configuration

Monitor

Customize

Setup

1 ## Prepare AWS for Checkmk

Access Key ID: AKIAJ25LEKPV2QGJDZZA

Secret access key: ••••••••••••••••••••••••••••••••••e00c

2 ## Configure host & region

Name your host, path, and select region you would like to monitor

Host name: | AWS-01 |

Host path: | 📁 Main/aws |

Region to monitor:
- ☐ Africa (Cape Town) | af-south-1
- ☐ Asia Pacific (Hong Kong) | ap-east-1
- ☐ Asia Pacific (Hyderabad) | ap-south-2
- ☐ Asia Pacific (Jakarta) | ap-southeast-3
- ☐ Asia Pacific (Mumbai) | ap-south-1
- ☐ Asia Pacific (Osaka-Local) | ap-northeast-3
- ☐ Asia Pacific (Seoul) | ap-northeast-2
- ☐ Asia Pacific (Singapore) | ap-southeast-1
- ☐ Asia Pacific (Sydney) | ap-southeast-2
- ☐ Asia Pacific (Tokyo) | ap-northeast-1
- ☐ Canada (Central) | ca-central-1
- ☐ China (Beijing) | cn-north-1
- ☐ China (Ningxia) | cn-northwest-1
- X Europe (Frankfurt) | eu-central-1
- X Europe (Ireland) | eu-west-1
- X Europe (London) | eu-west-2
- ☐ Europe (Milan) | eu-south-1
- ☐ Europe (Paris) | eu-west-3

[↩ Back]   [⊙ Next: Configure services to monitor]

3 ## Configure services to monitor

Add AWS configuration

① Prepare AWS for Checkmk

Access Key ID: AKIAJ25LEKPV2QGJDZZA

Secret access key: ••••••••••••••••••••••••••••••••e00c

② Configure host & region

Host name: AWS-01

Host path: Main/aws

Region to monitor: Europe (Frankfurt) | eu-central-1,
Europe (Ireland) | eu-west-1,
Europe (London) | eu-west-2

③ Configure services to monitor

Select & configure AWS global services and services per region you would like to monitor

Global services:
- ☐ Costs and usage (CE)

Services per region:
- ☐ Elastic Compute Cloud (EC2)
- ☐ Elastic Block Storage (EBS)
- ☐ Simple Storage Service (S3)
- ☐ Amazon S3 Glacier (Glacier)
- ☐ Classic Load Balancing (ELB)
- ☐ Application and Network Load Balancing (ELBv2)

Other: See other configuration ... (Optional)

[↩ Back] [⬇ Next: Review & run service discovery]

④ Review & run service discovery

Review & run service discovery

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checkmk

Monitor

Customize

Setup

Add AWS configuration

Monitor

Customize

Setup

1 Prepare AWS for Checkmk

Access Key ID: AKIAJ25LEKPV2QGJDZZA

Secret access key: ••••••••••••••••••••••••••••••••e00c

2 Configure host & region

Host name: AWS-01
Host path: Main/aws
Region to monitor: Europe (Frankfurt) | eu-central-1,
                    Europe (Ireland) | eu-west-1,
                    Europe (London) | eu-west-2

3 Configure services to monitor

Select & configure AWS global services and services per region you would like to monitor

Global services: ☐ Costs and usage (CE)

Services per region: ☒ Elastic Compute Cloud (EC2)
                        ☒ Elastic Block Storage (EBS)
                        ☒ Simple Storage Service (S3)
                        ☐ Amazon S3 Glacier (Glacier)
                        ☐ Classic Load Balancing (ELB)
                        ☒ Application and Network Load Balancing (ELBv2)

Other: See other configuration ... (Optional)

[↩ Back]   [⬇ Next: Review & run service discovery]

4 Review & run service discovery

Review & run service discovery

Add AWS configuration

1 Prepare AWS for Checkmk

Access Key ID: AKIAJ25LEKPV2QGJDZZA
Secret access key: ●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●e00c

2 Configure host & region

Host name: AWS-01
Host path: Main/aws
Region to monitor: Europe (Frankfurt) | eu-central-1,
                    Europe (Ireland) | eu-west-1,
                    Europe (London) | eu-west-2

3 Configure services to monitor

Glolbal services: Cost and usage (CE)

Services per region: Elastic Compute Cloud (EC2)
                       Elastic Block Storage (EBS)
                       Simple Storage Service (S3)

Other: Restrict monitoring services by one of these AWS tags:
                       • key1: value1, value2
                       • key2: value1, value2

4 Review & run service discovery

Please review the configuration above and then run service discovery. You can always change these configurations later.

[↩ Back]   [◈ Save & run service discovery]

Add AWS configuration

Region to monitor:	Europe (Frankfurt) │ eu-central-1,
	Europe (Ireland) │ eu-west-1,
	Europe (London) │ eu-west-2

3 Configure services to monitor

Gllobal services:	▦ Cost and usage (CE)
Services per region:	▦ Elastic Compute Cloud (EC2)
	▦ Elastic Block Storage (EBS)
	▦ Simple Storage Service (S3)
Other:	Restrict monitoring services by one of these AWS tags:
	• key1: value1, value2
	• key2: value1, value2

4 Review & run service discovery

Please review the configuration above and then run service discovery. You can always change these configurations later.

Succeed! We have found the following AWS services:

- **32** EC2 instances
- **34** Lambda functions
- **89** S3 buckets
- **45** Other services

For the last step, head to the Activate changes by clicking the button below and follow the instructions.

📦 Go to activate changes

checkmk

Monitor

Customize

Setup

| Commands | Host | Services | Export | Display | Help | ⌃ |

🔧 Acknowledge problems   🔺 Schedule downtimes   ▼ Filter   ◻ Show checkboxes   ⓘ AWS

AWS

State	Service	Icons	Summary
OK	Check_MK	☰ 📁	[special_aws] Success, [piggyback] Success (but no data found for this host), execution time 1.3 sec
OK	Check_MK Discovery	☰	Services: all up to date, Host labels: all up to date
OK	AWS Exceptions	☰	AWSSectionsUSEast: No exceptions, AWSSectionsGeneric: No exceptions
OK	AWS/CloudWatch Alarms	☰	Everything looks OK - 1 detail available
OK	AWS/CloudWatch Alarms Limits eu-central-1	☰ 📁	No levels reached, 1 additional detail available
OK	AWS/DynamoDB Limits eu-central-1	☰ 📁	No levels reached, 3 additional details available
OK	AWS/EBS Limits eu-central-1	☰ 📁	Everything looks OK - 10 details available
OK	AWS/EC2 Limits eu-central-1	☰ 📁	No levels reached, 25 additional details available
OK	AWS/EC2 Summary	☰	Instances: 6, stopped: 5, running: 1, 6 additional details available
OK	AWS/ELB Limits eu-central-1	☰ 📁	No levels reached, 1 additional detail available
OK	AWS/ELBv2 Limits eu-central-1	☰ 📁	No levels reached, 3 additional details available
OK	AWS/Glacier Limits eu-central-1	☰ 📁	No levels reached, 1 additional detail available
OK	AWS/Glacier Summary	☰ 📁	Total size: 0 B, Largest vault: test-vault-pung (0 B)
OK	AWS/Glacier Vault: test-vault-pung	☰ 📁	Vault size: 0 B, Number of archives: 0, [Tags]: test tag mo1 : test2, test tag2sdsf: testtag-mo
OK	AWS/RDS Limits eu-central-1	☰ 📁	No levels reached, 15 additional details available
OK	AWS/S3 Limits Global	☰ 📁	No levels reached, 1 additional detail available
OK	AWS/S3 Objects awsdashboardbucket01	☰ 📁	Bucket size: 339 MiB, StandardStorage: 339 MiB, Number of objects: 2, Location: eu-central-1
OK	AWS/S3 Objects awsdashboardbucket02	☰ 📁	Bucket size: 3.96 MiB, StandardStorage: 3.96 MiB, Number of objects: 1, Location: eu-central-1, [Tags] testkeys3-1: testvalues3-1
OK	AWS/S3 Objects datadogintegration-forwarderstack--forwarderbucket-levaqv3jumbg	☰ 📁	Bucket size: 0 B, Number of objects: 0, Location: eu-central-1, [Tags] aws:cloudformation:stack-id: arn:aws:cloudformation:eu-central-1:408030466243:stack/DatadogIntegration-ForwarderStack-NDO3QCGCALL4/2d844510-9da2-11ee-ac05-02b323115abf, aws:cloudformation:stack-name: DatadogIntegration-ForwarderStack-NDO3QCGCALL4, aws:cloudformation:logical-id: ForwarderBucket
OK	AWS/S3 Summary	☰ 📁	Total size: 343 MiB, Largest bucket: awsdashboardbucket01 (339 MiB)

~ 5 mins

Monitor

Customize

Setup

checkmk

➕ Add new AWS configuration

Configurations

#	Actions	Title	Account ID
0	✏️ 🗑️	AWS-01	408030466243

Save & Run service discovery

Main

Main host name AWS-01

AWS Access key ID AKIAJ25LEKPV2QGJDZZA

AWS The secret access key .... ••••••••••••••••••••••••••••••

Region to monitor

Region to monitor ....
- ☐ Africa (Cape Town) | af-south-1
- ☐ Asia Pacific (Hong Kong) | ap-east-1
- ☐ Asia Pacific (Hyderabad) | ap-south-2
- ☐ Asia Pacific (Jakarta) | ap-southeast-3
- ☐ Asia Pacific (Mumbai) | ap-south-1
- ☐ Asia Pacific (Osaka-Local) | ap-northeast-3
- ☐ Asia Pacific (Seoul) | ap-northeast-2
- ☐ Asia Pacific (Singapore) | ap-southeast-1
- ☐ Asia Pacific (Sydney) | ap-southeast-2
- ☐ Asia Pacific (Tokyo) | ap-northeast-1
- ☐ Canada (Central) | ca-central-1
- ☐ China (Beijing) | cn-north-1
- ☐ China (Ningxia) | cn-northwest-1
- ☒ Europe (Frankfurt) | eu-central-1
- ☒ Europe (Ireland) | eu-west-1
- ☒ Europe (London) | eu-west-2
- ☐ Europe (Milan) | eu-south-1
- ☐ Europe (Paris) | eu-west-3
- ☐ Europe (Spain) | eu-south-2
- ☐ Europe (Stockholm) | eu-north-1
- ☐ Europe (Zurich) | eu-central-2
- ☐ Middle East (Bahrain) | me-south-1
- ☐ Middle East (UAE) | me-central-1
- ☐ South America (Sao Paulo) | sa-east-1

Integration: Amazon Web Services (AWS)

⊕ Save & Run service discovery

Service to monitor

Global services to monitor ....
- ☐ Costs and usage (CE)
- ☐ Route53
- ☐ CloudFront

Services per region to monitor ....
- ☒ Elastic Compute Cloud (EC2)

  Selection of service instances

  [Gather all service instances and restrict by overall AWS tags ▼]

  - ☒ Service limits
    - Monitor service limits

- ☒ Elastic Block Storage (EBS)

  Selection of service instances

  [Gather all service instances and restrict by overall AWS tags ▼]

  - ☒ Service limits
    - Monitor service limits

- ☒ Simple Storage Service (S3)

  Selection of service instances

  [Gather all service instances and restrict by overall AWS tags ▼]

  - ☒ Service limits
    - Monitor service limits
  - ☐ Request metrics

- ☒ Amazon S3 Glacier (Glacier)

  Selection of service instances

  [Gather all service instances and restrict by overall AWS tags ▼]

  - ☒ Service limits
    - Monitor service limits

- ☒ Classic Load Balancing (ELB)

  Selection of service instances

  [Gather all service instances and restrict by overall AWS tags ▼]

The future of multi-step configuration workflows