

ADQM & ADQM Control:
функциональнее, удобнее, умнее

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План

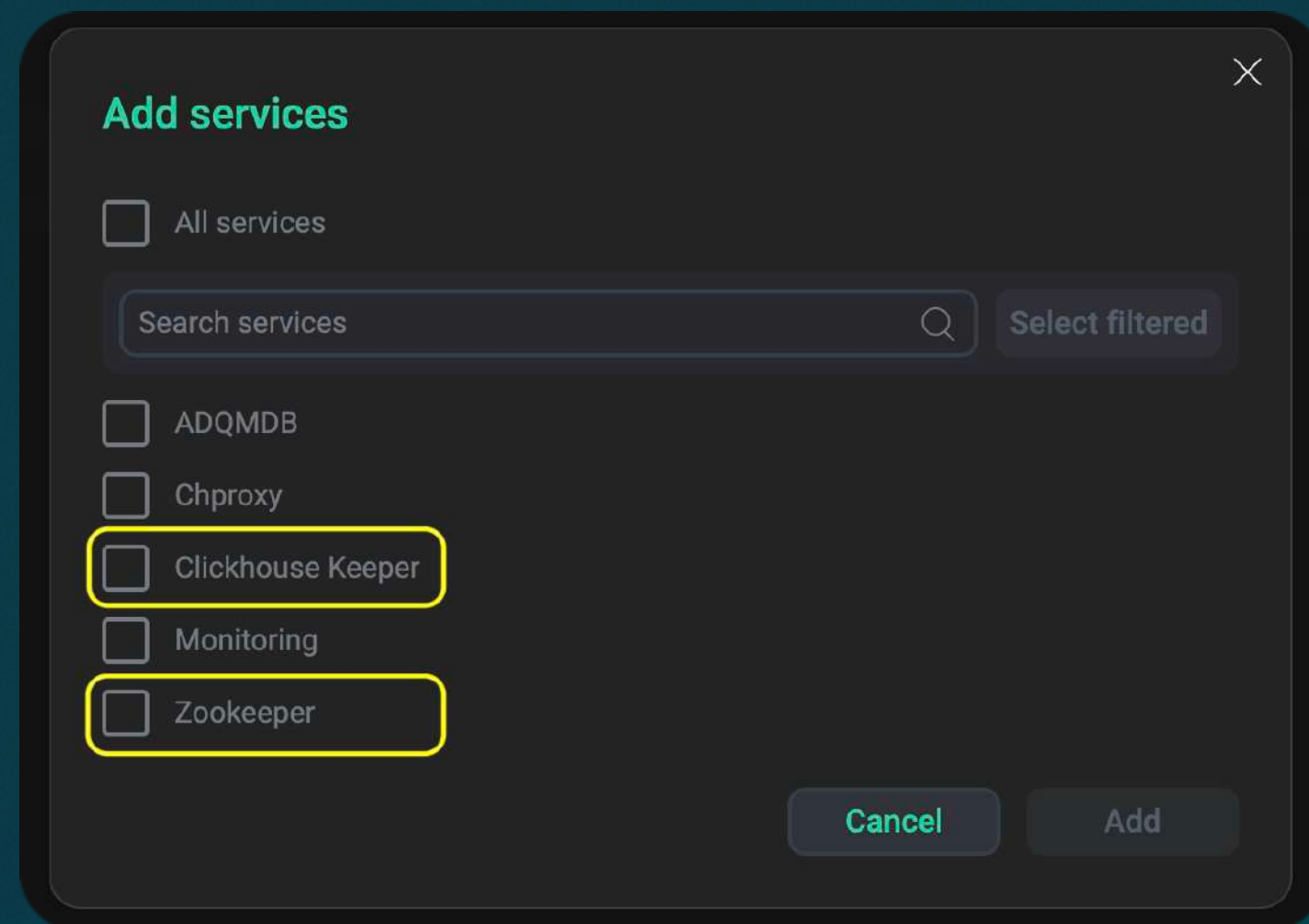
- Bundle ADQM: *keeper auto-selection, форк Chproxy и резервное копирование
- ADQM Notebook: notebook overview, replicated storage, граф зависимостей and a bit more
- ADQM Control: время жизни таблиц, aggregated tables, host graph and still a bit more
- Next releases
- Q&A

ADQM & ADQM Control: функциональнее, удобнее, умнее

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ADQM & ADQM Control: функциональнее, удобнее, умнее

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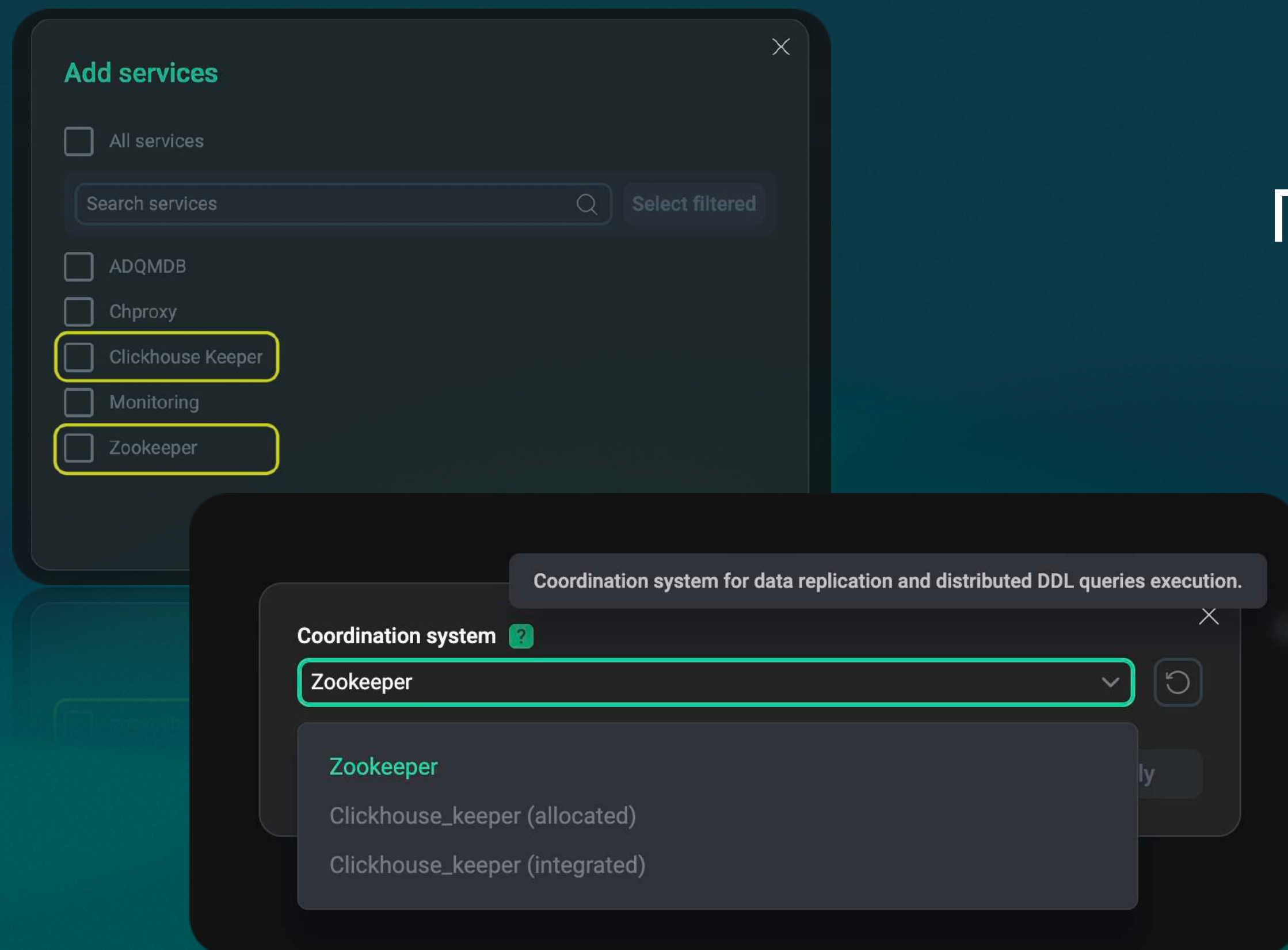


Поддержка двух координаторов в продукте

ADQM & ADQM Control: функциональнее, удобнее, умнее

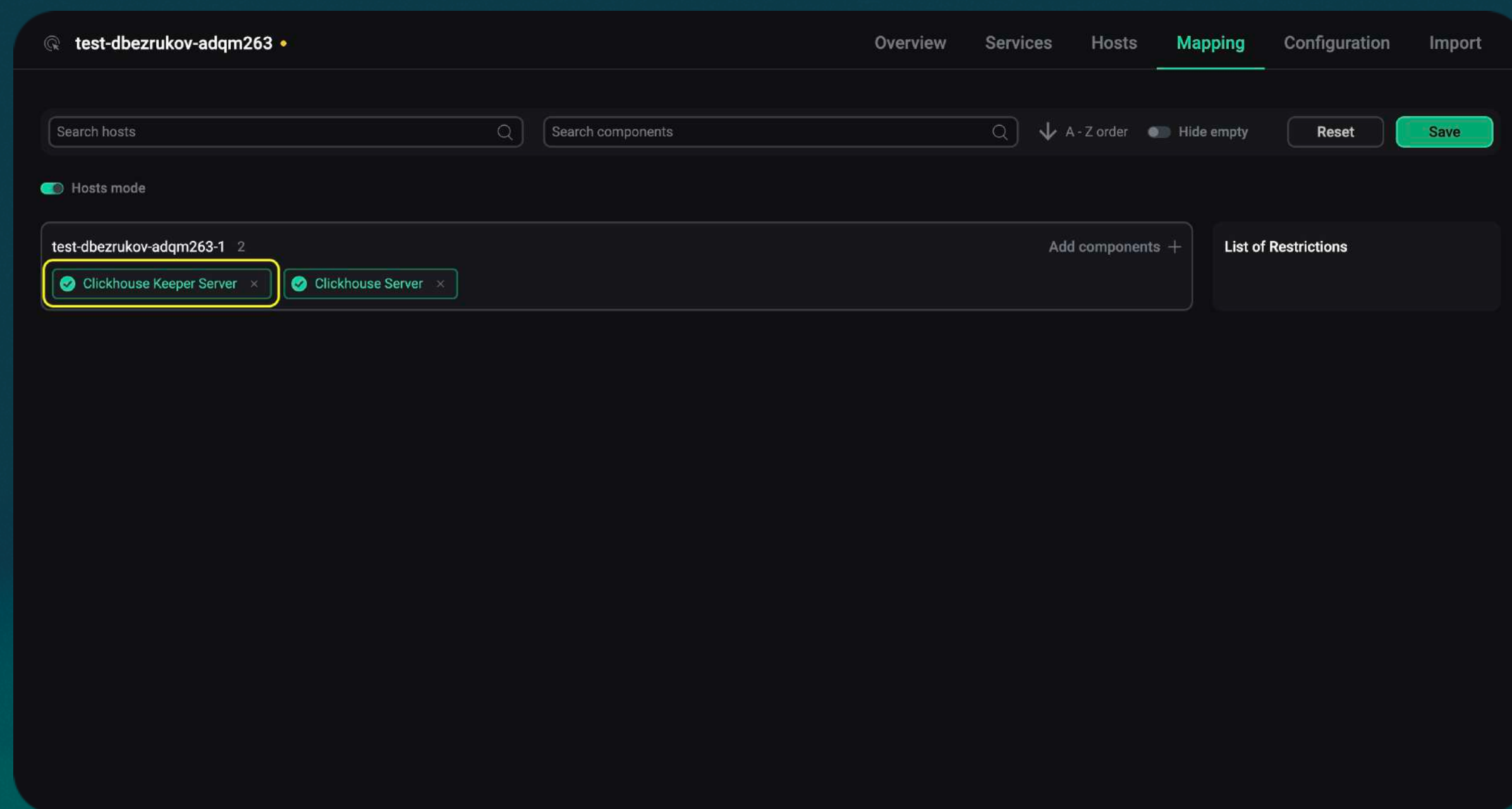
Bundle ADQM: *keeper auto-selection

Поддержка двух координаторов в продукте
Ручная настройка выбранного
Ошибки во время install



ADQM & ADQM Control: функциональнее, удобнее, умнее

Bundle ADQM: *keeper auto-selection



Зависимость от mapping

ADQM & ADQM Control: функциональнее, удобнее, умнее

Bundle ADQM: *keeper auto-selection

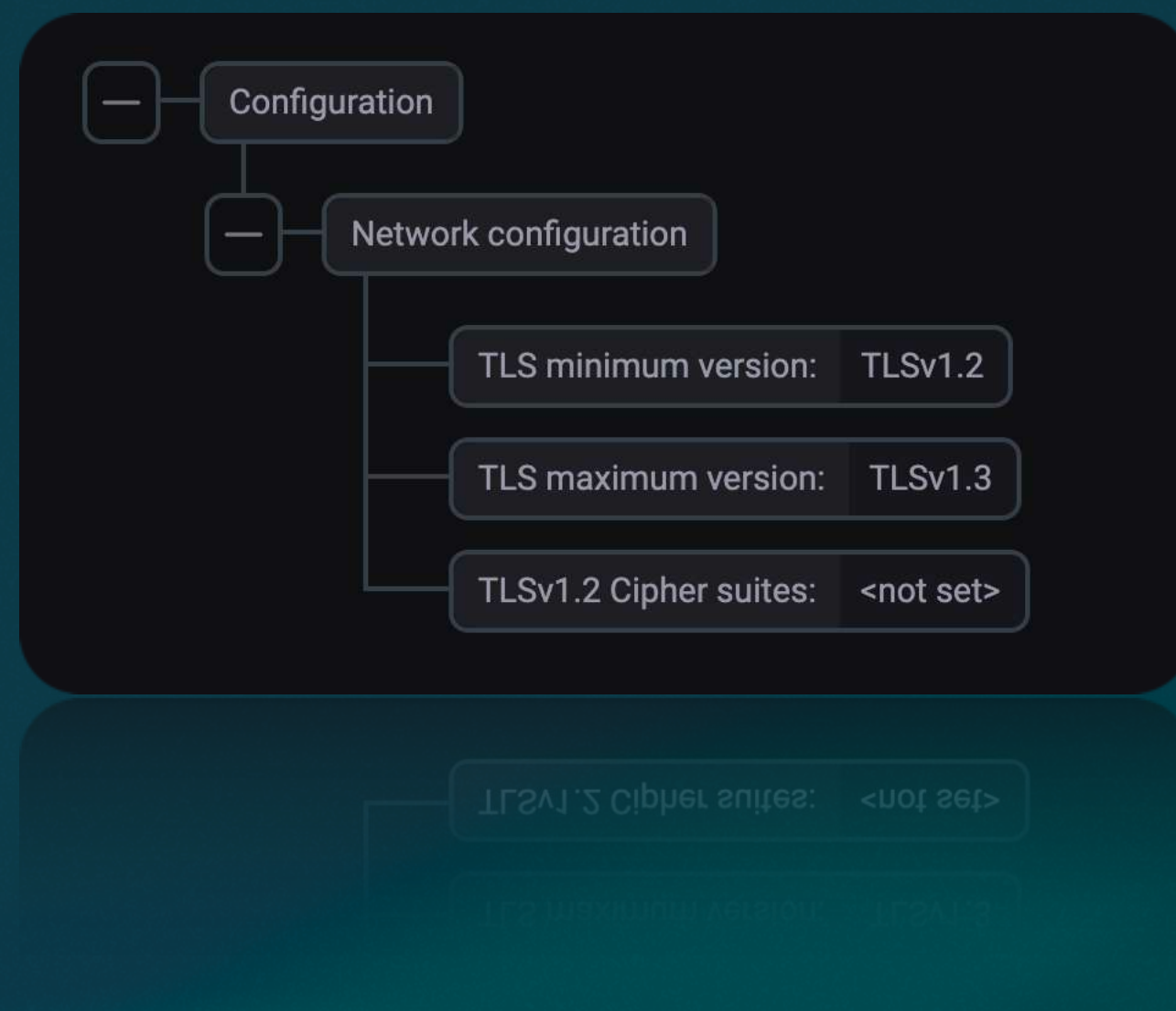
The screenshot displays the 'Mapping' tab in the ADQM interface. At the top, there are search bars for 'Search hosts' and 'Search components', along with filters for 'A - Z order' and 'Hide empty', and buttons for 'Reset' and 'Save'. Below these, a 'Hosts mode' toggle is visible. The main section shows a list of components for 'test-dbezrukov-adqm263-1'. Two components are listed: 'Clickhouse Keeper Server' and 'Clickhouse Server'. A yellow box highlights the 'Clickhouse Keeper Server' component, and a yellow arrow points from it to the 'Infer coordination system automatically' row in the table below. The table has columns for 'Subjob', 'Status', 'Duration', 'Start time', 'Finish time', and 'Actions'. The 'Infer coordination system automatically' row is highlighted with a yellow box and shows a 'success' status.

Subjob	Status	Duration	Start time	Finish time	Actions
✓ Bundle pre check	success	00:00:09	03/08/2026 04:36:23	03/08/2026 04:36:32	▶
✓ Bundle pre install	success	00:00:21	03/08/2026 04:36:32	03/08/2026 04:36:53	▶
✓ Services dependency check	success	00:00:07	03/08/2026 04:36:53	03/08/2026 04:37:01	▶
✓ Infer coordination system automatically	success	00:00:00	03/08/2026 04:37:01	03/08/2026 04:37:01	▶
✓ Pre-install check	success	00:00:09	03/08/2026 04:37:01	03/08/2026 04:37:10	▶

Зависимость от mapping
Автоматическое определение *keeper'а
Отсутствие настроек перед install

ADQM & ADQM Control: функциональнее, удобнее, умнее

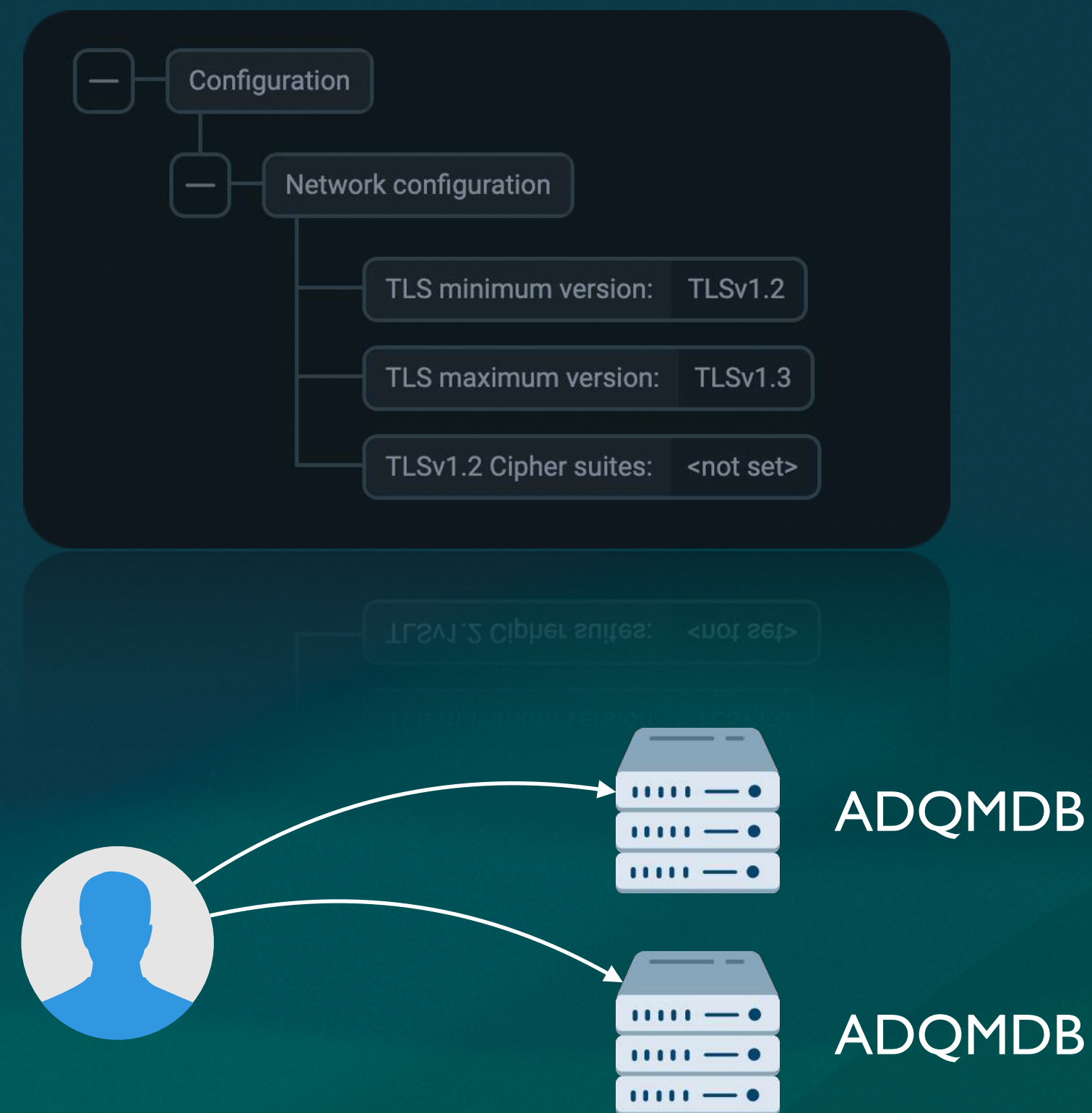
Bundle ADQM: форк Chproxy



Управление TLS и шифронаборами

ADQM & ADQM Control: функциональнее, удобнее, умнее

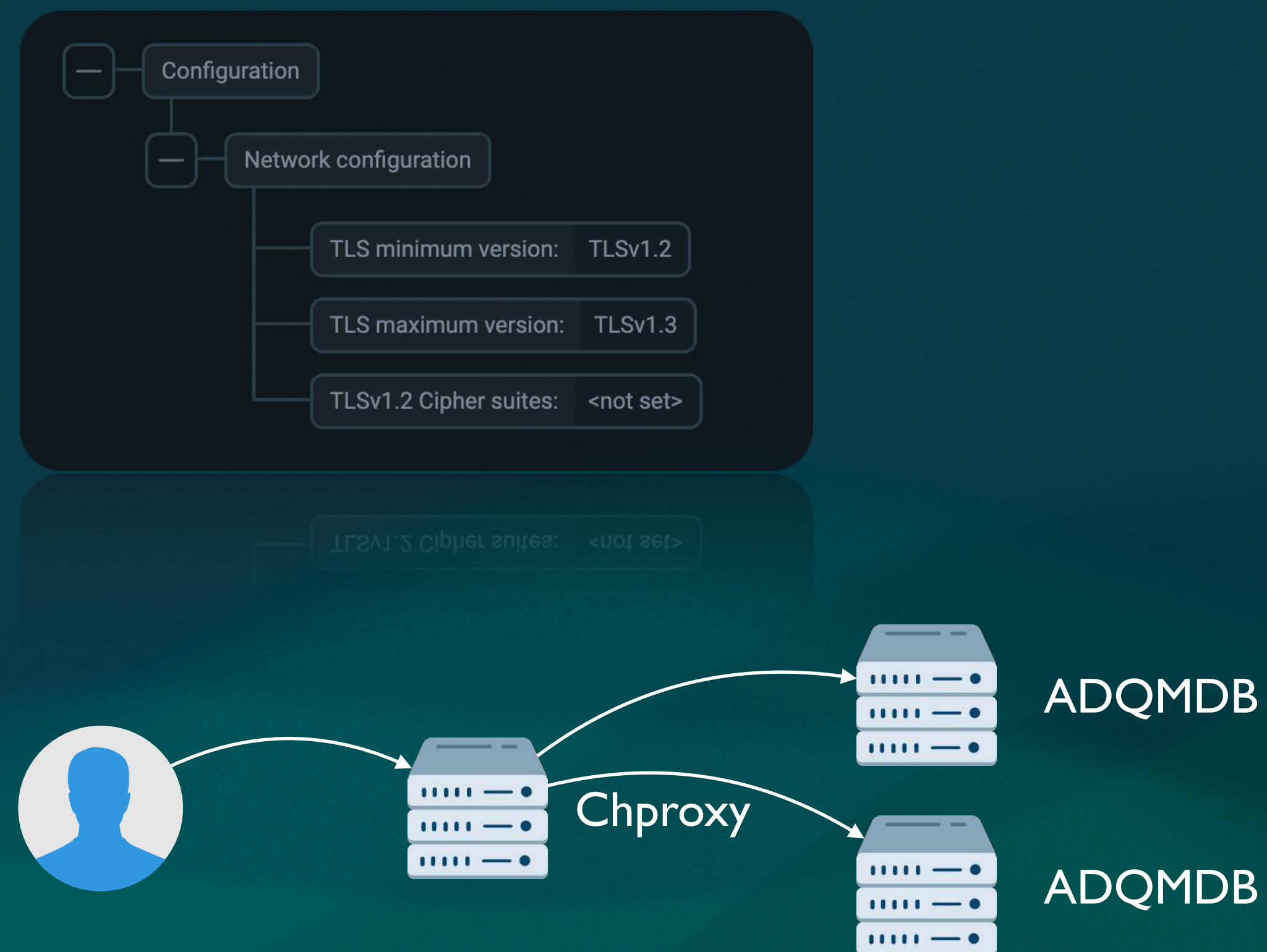
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Управление TLS и шифронаборами
Работа с ADQM Notebook через Chproxy

ADQM & ADQM Control: функциональнее, удобнее, умнее

Bundle ADQM: форк Chproxy



Управление TLS и шифронаборами
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ADQM & ADQM Control: функциональнее, удобнее, умнее

Bundle ADQM: резервное копирование

Backup/Restore

- 1 Select action
 - 1.1 Select action
 - 1.2 Collect info
- 2 Configure action
- 3 Preparing for running

Configure action

Choose what data needs to be backed up/restored, where to store backups, etc.

2.1 Configure action

Select backup/restore options

☒ Expand content

Configuration

Cluster: default_cluster

+ Select data to backup all >

- Select backup storage Local disk >

Local disk

Local disk name: backup_test

Backup name: full_backup

+ Make incremental backup ☐

- Backup settings

Additional backup settings

id: adqm-nightly-full-2026-08-03

max_backup_bandwidth: 209715200

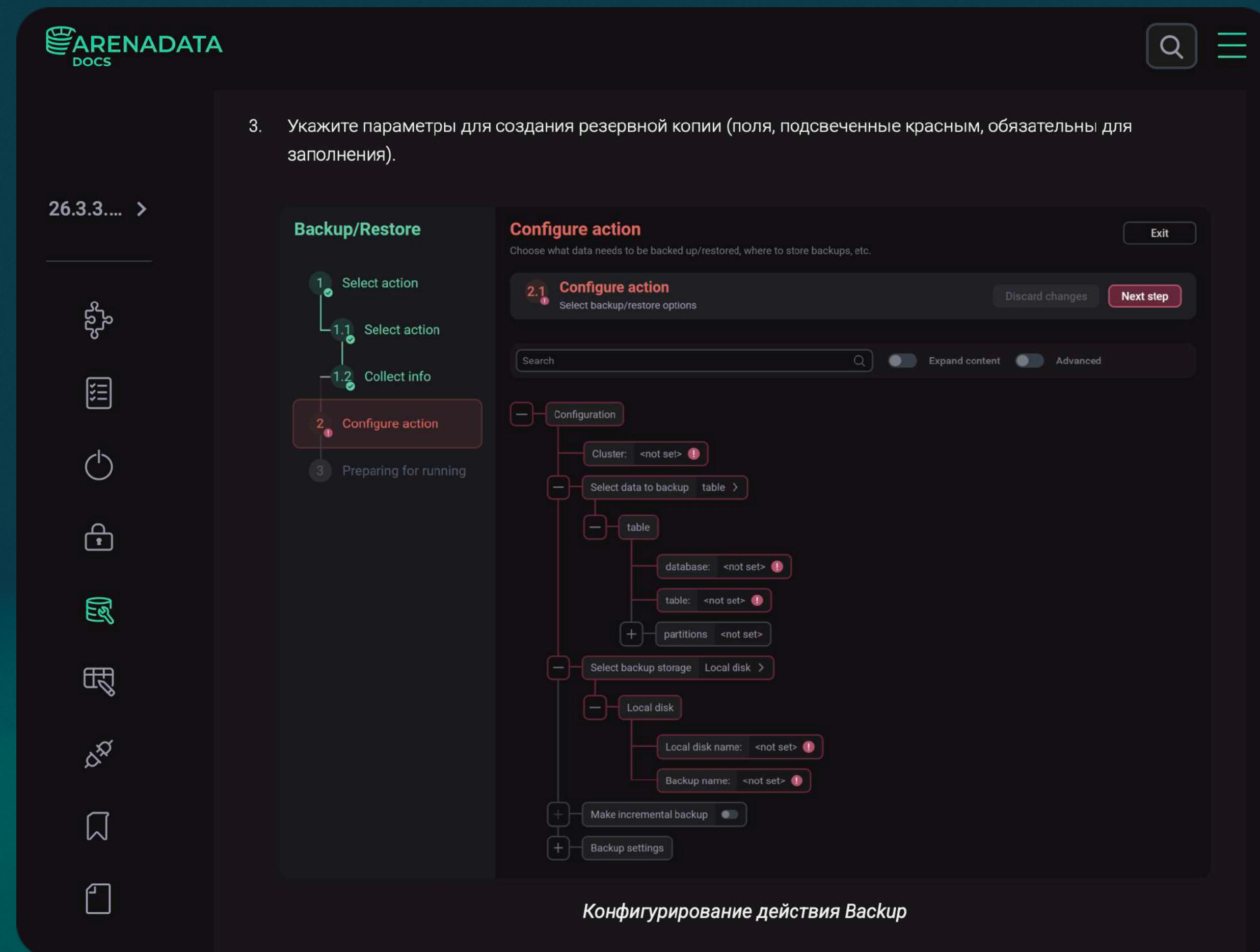
compression_method: lzma

Add property

Таблицы/базы/словари/кластер
local path, local disk, S3 disk, S3 endpoint
Автоматический выбор ON CLUSTER

ADQM & ADQM Control: функциональнее, удобнее, умнее

Bundle ADQM: резервное копирование



Таблицы/базы/словари/кластер
local path, local disk, S3 disk, S3 endpoint
Автоматический выбор ON CLUSTER
Документация ADQM/backup-restore

ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Notebook: notebook overview, beautify SQL, граф зависимостей and a bit more

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↑ Migrate to Replicated Storage

Notebooks are currently saved locally on the connected node (red-adqmc-adqm-3.ru-central1.internal), and each node only sees its own. Migrating merges them all into one replicated table visible from every node.

Found local notebooks on 2 nodes: red-adqmc-adqm-3 and red-adqmc-adqm-1.

SELECT TARGET CLUSTER

default_cluster

The local table on the connected node is renamed as a backup, then a replicated table is created across the cluster and the notebooks are copied in. Other nodes' tables are renamed too, and their notebooks pulled in automatically. Nothing is deleted, backups stay until you remove them. Requires CREATE/RENAME TABLE permissions and a direct connection to one node (non-CHProxy).

✓ Migrated

✓ Migration complete

central1.internal:9000.notebooks

Setting up access policy on all cluster nodes...

✓ Row policy created on cluster

✓ Backup tables covered by the same row policy

— Migration to 'default_cluster' completed successfully! —

Backups retained (drop manually once everything is verified):

adqm_notebooks.notebooks_local_backup on red-adqmc-adqm-3.ru-central1.internal:9000

Replicated storage

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```
graph LR; User((User)) --> Chproxy[Chproxy]; Chproxy --> ADQMDB1[ADQMDB]; Chproxy --> ADQMDB2[ADQMDB]; ADQMDB1 <-->|Replicated| ADQMDB2
```

ADQM Notebook

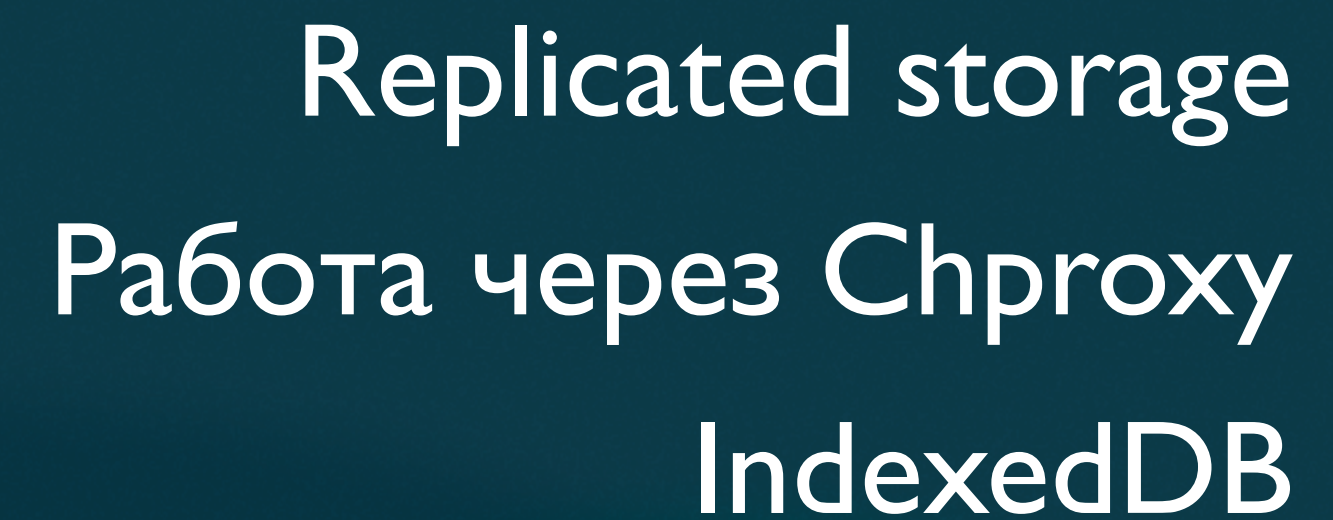
http://10.92.38.80:9090

●

20d 6h

Replicated storage
Работа через Chproxy

ADQM Notebook: notebook overview, beautify SQL, граф зависимостей and a bit more

[illegible]

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```

ADQM Notebook

http://10.92.38.80:9090

20d 6h

Replicated storage
Работа через Chproxy
IndexedDB
Independent version

Manifest

Service workers

Storage

Storage

- Local storage
 - http://10.92.42.232:8123
- Session storage
- Extension storage
- IndexedDB
 - adqm-notebook-results
 - results

Filter by key (show keys greater or equal to)

Data may be stale

#	Key	Value
0	"nb_mma57km3ellev"	▶ (5) [null, null, null, null, null]
1	"nb_mrh09lwd3uwvo"	▶ (8) [{...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}]
2	"nb_mrjbfwjn3788x"	▶ (16) [{...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}]
3	"nb_mseloi80039wg"	▶ (6) [null, null, null, null, null, null]
4	"nb_mselpsarmto2y"	▶ (10) [{...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}]
5	"nb_mselxsr16zmn7"	▶ (18) [null, {...}, null, {...}, null, {...}, null, {...}, null, {...}, null, {...}, null, {...}, null, {...}, null, {...}]

Settings

Font Size

- 14px

Word Wrap

-

ADQM Notebook v1.1.0

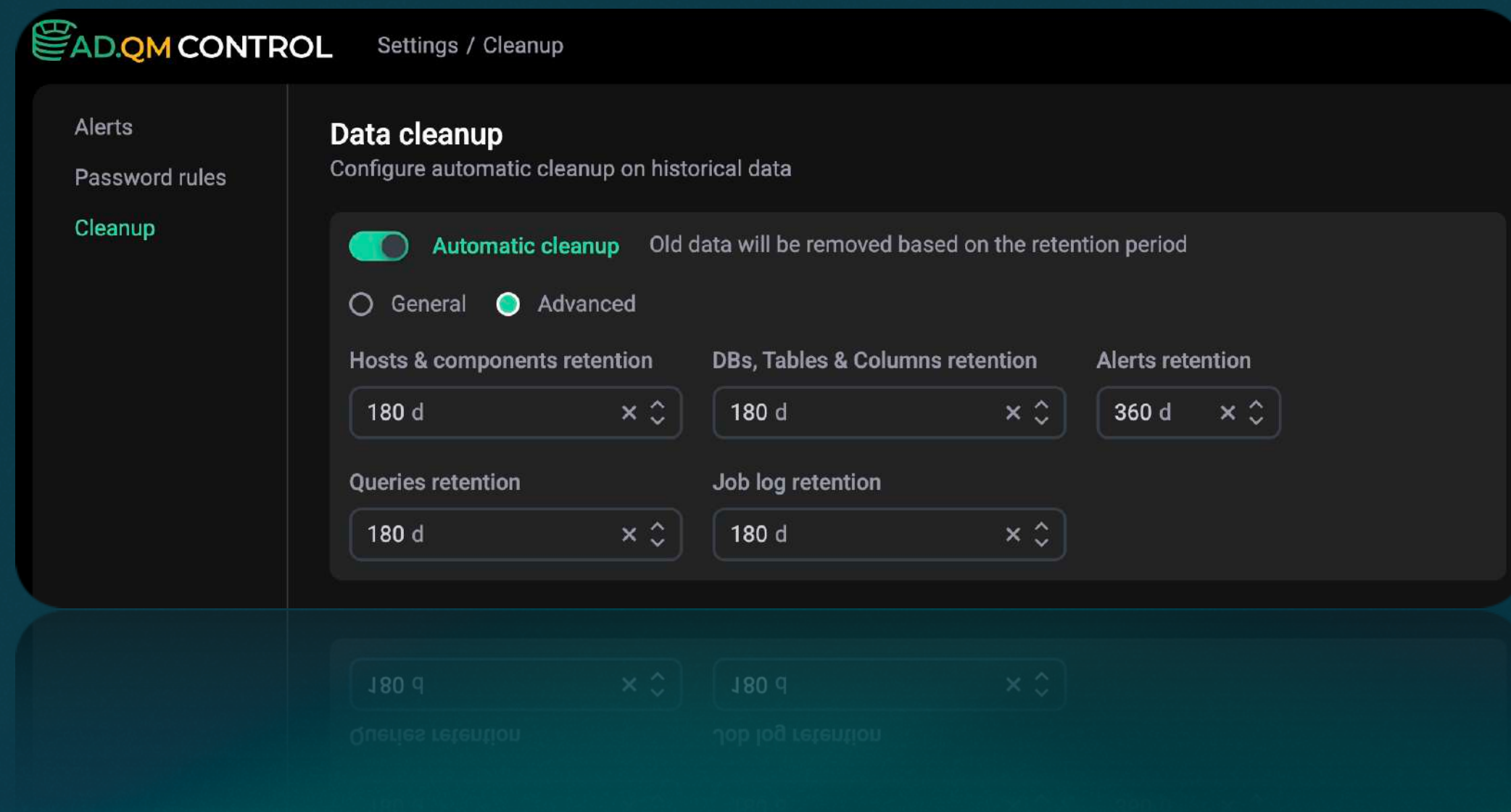
Close

ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: время жизни таблиц, aggregated tables, host graph and still a bit more

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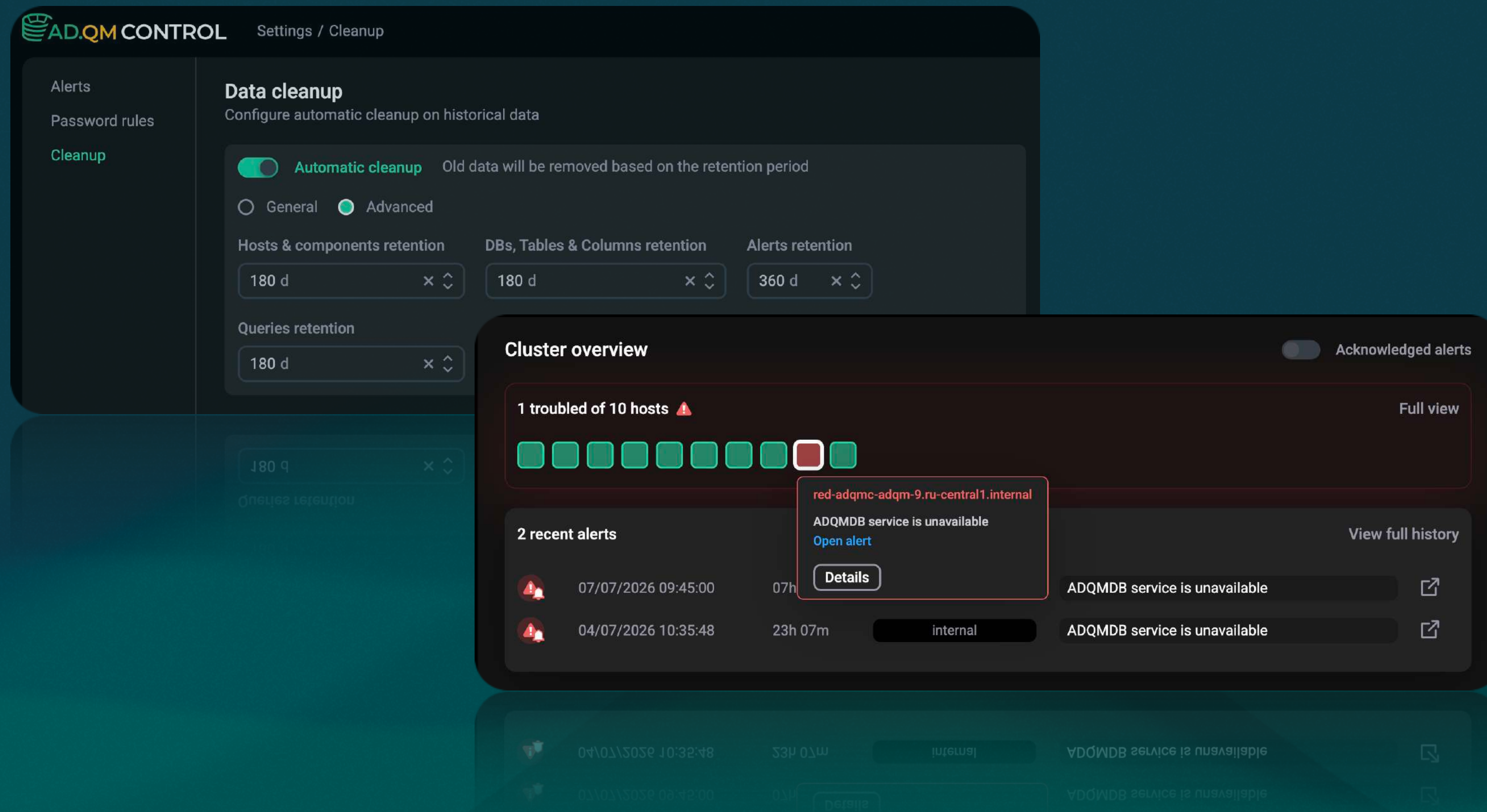
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Cleanup ADQMC data

ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: время жизни таблиц, aggregated tables, host graph and still a bit more



Cleanup ADQMC data
Unavailable alerts

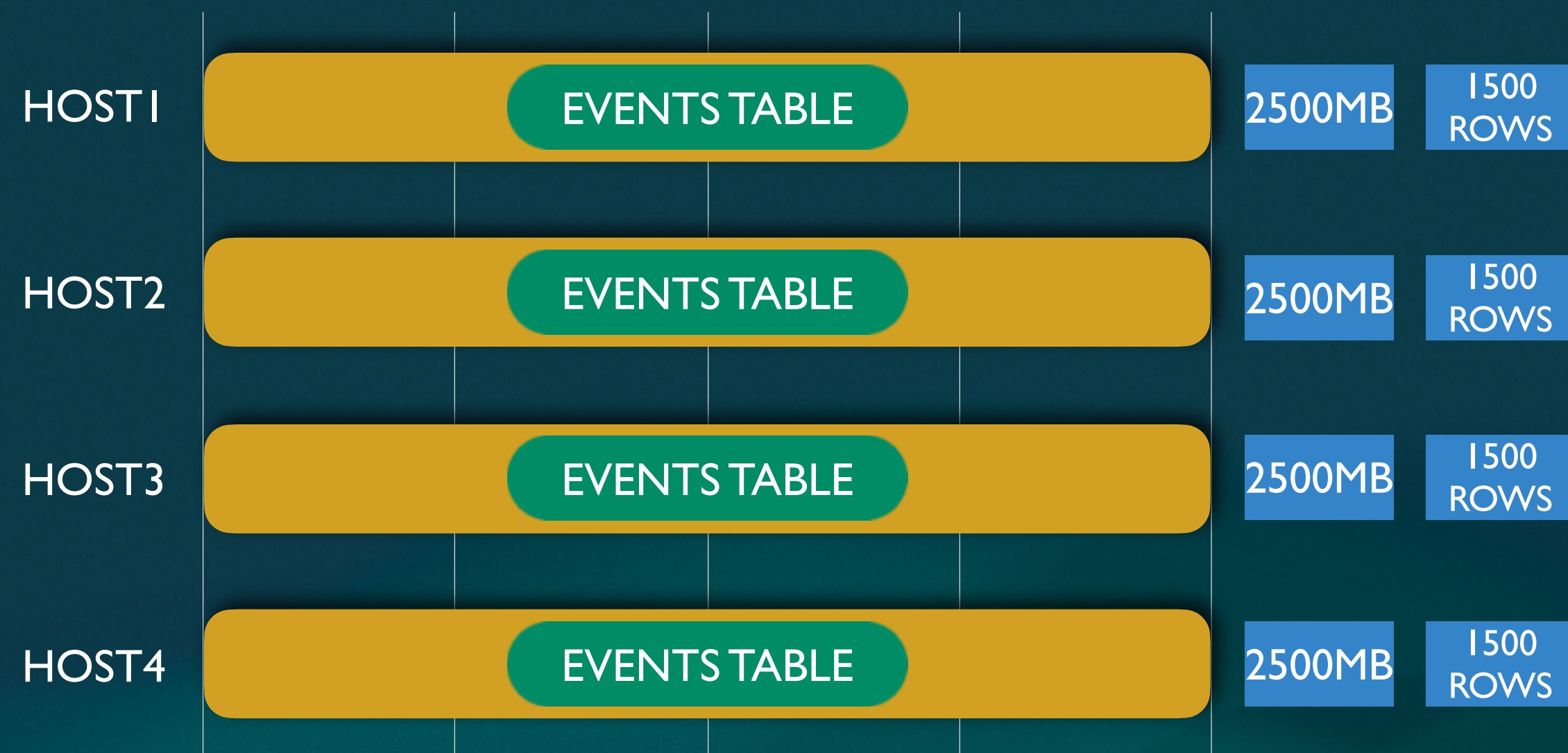
ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: separated & aggregated tables

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ADQM Control: separated & aggregated tables

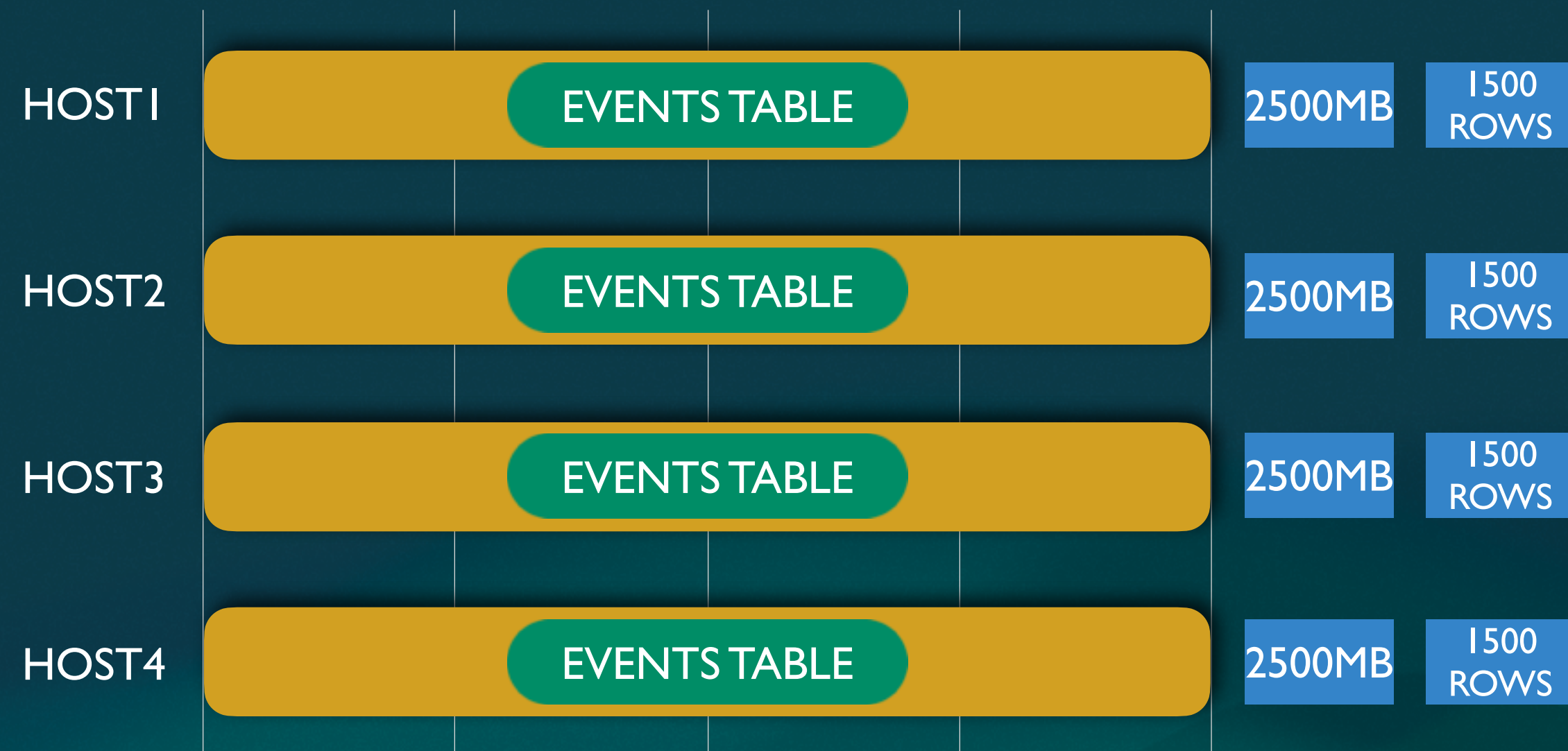
Separated



ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: separated & aggregated tables

Separated



Aggregated



Database name + Table name + Engine

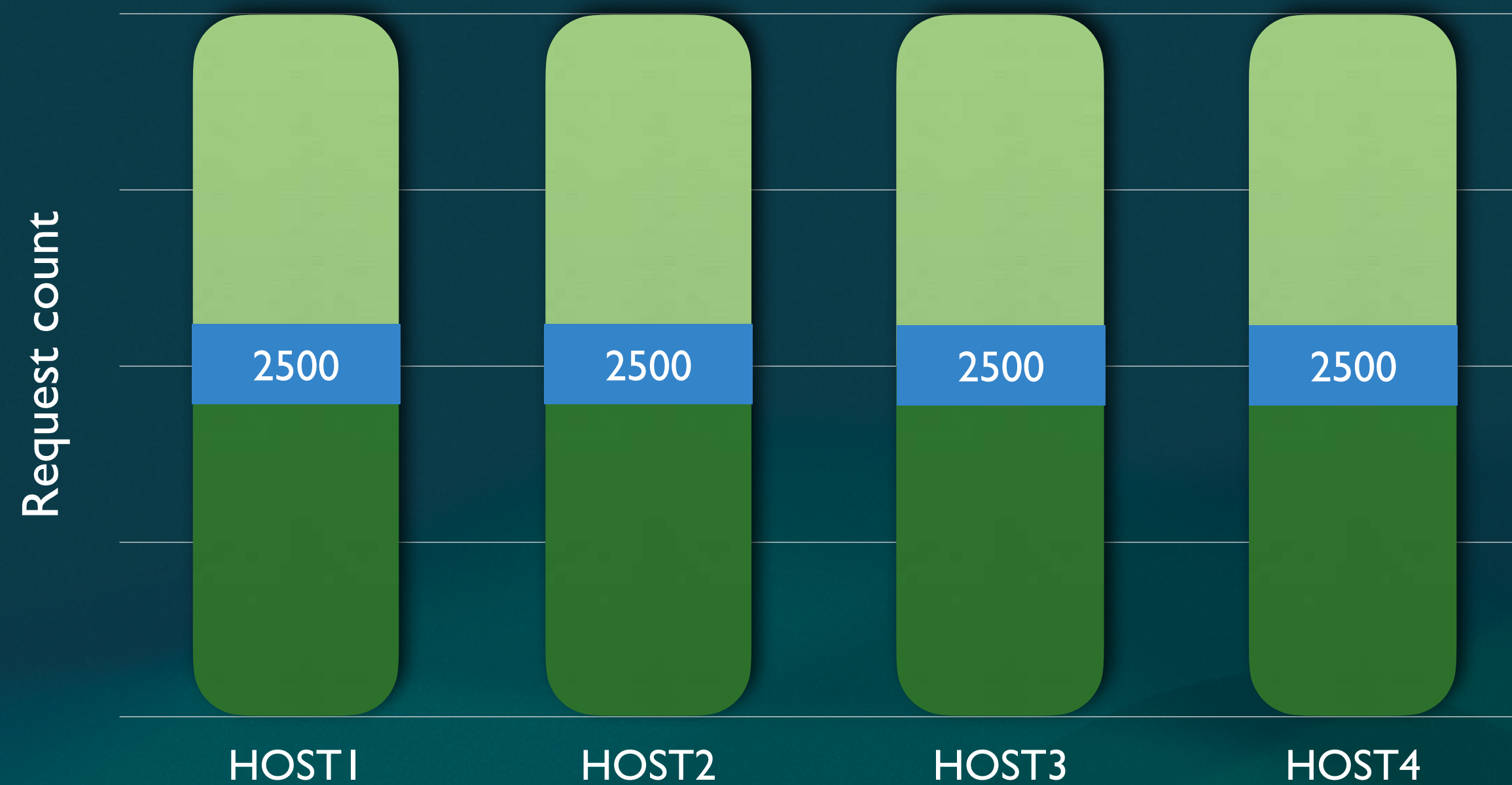
ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: skew vs. imbalance

$$\text{skew} = \max - \min$$

ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: skew vs. imbalance

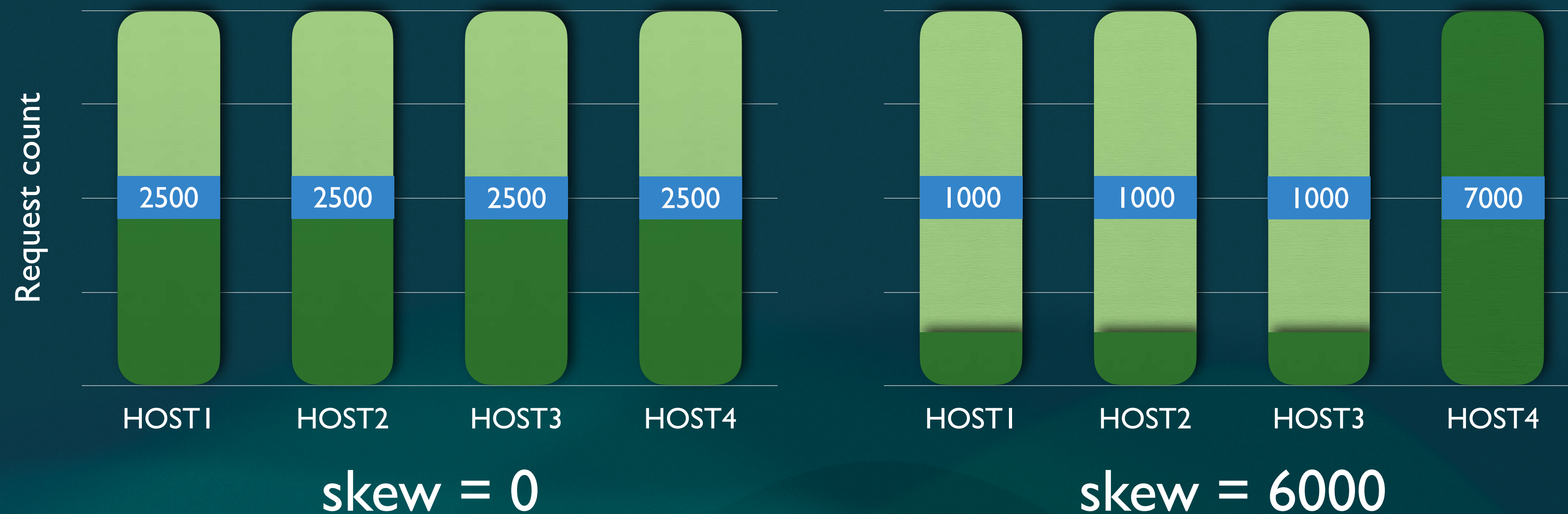


skew = 0

skew = max - min

ADQM & ADQM Control: функциональнее, удобнее, умнее

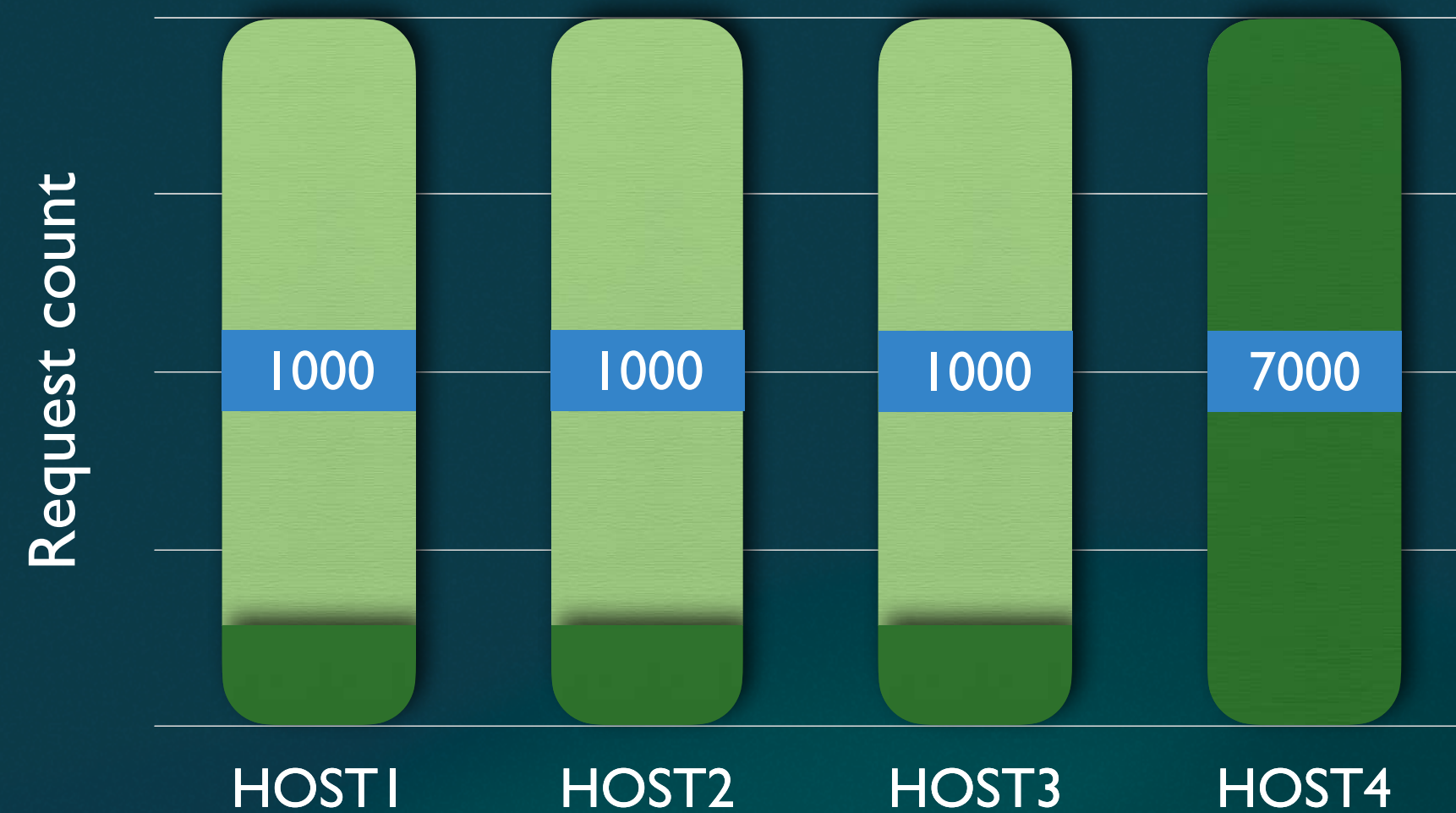
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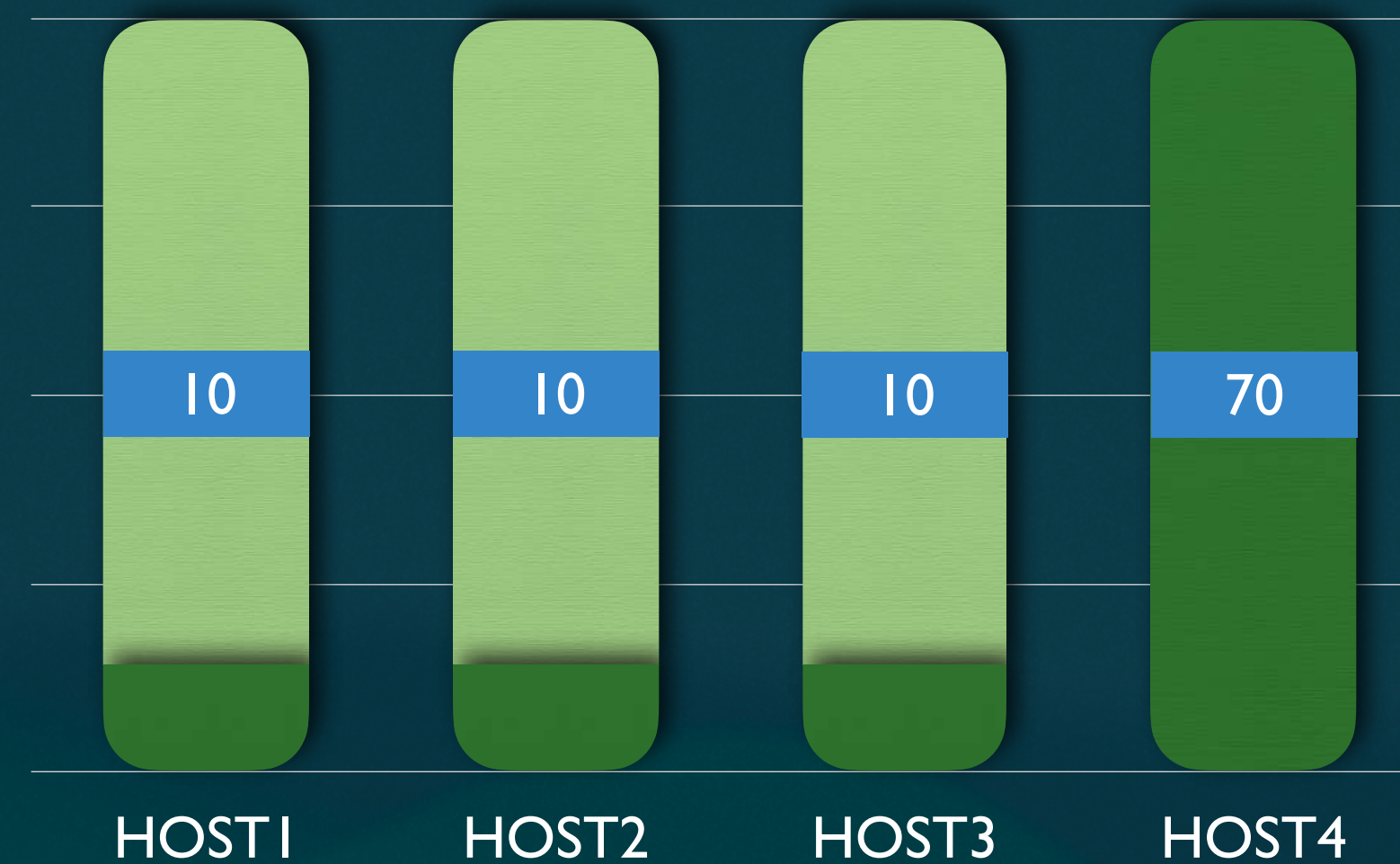
$$\text{skew} = \text{max} - \text{min}$$

ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: skew vs. imbalance



skew = 6000

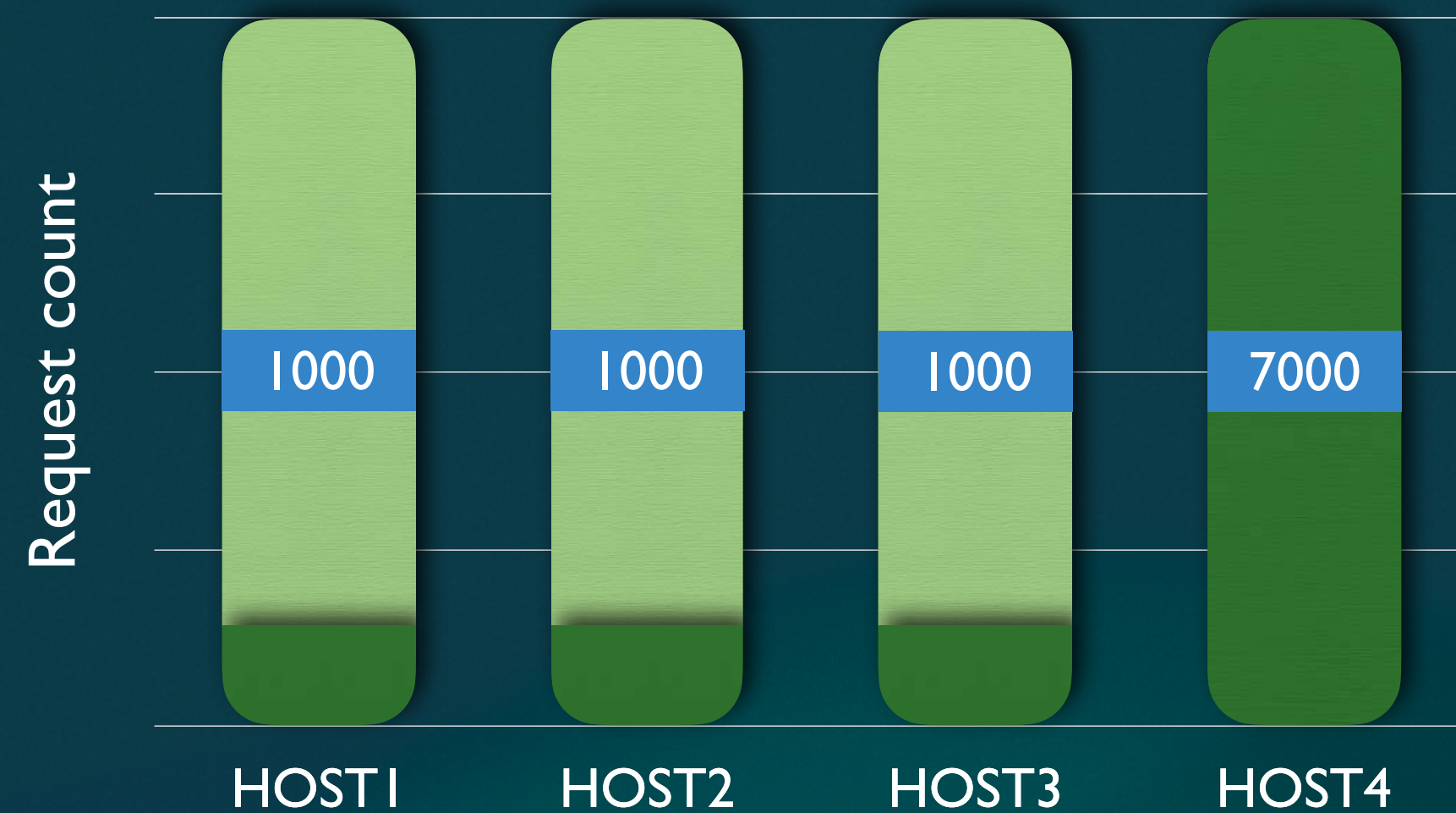


skew = 60

skew = max - min

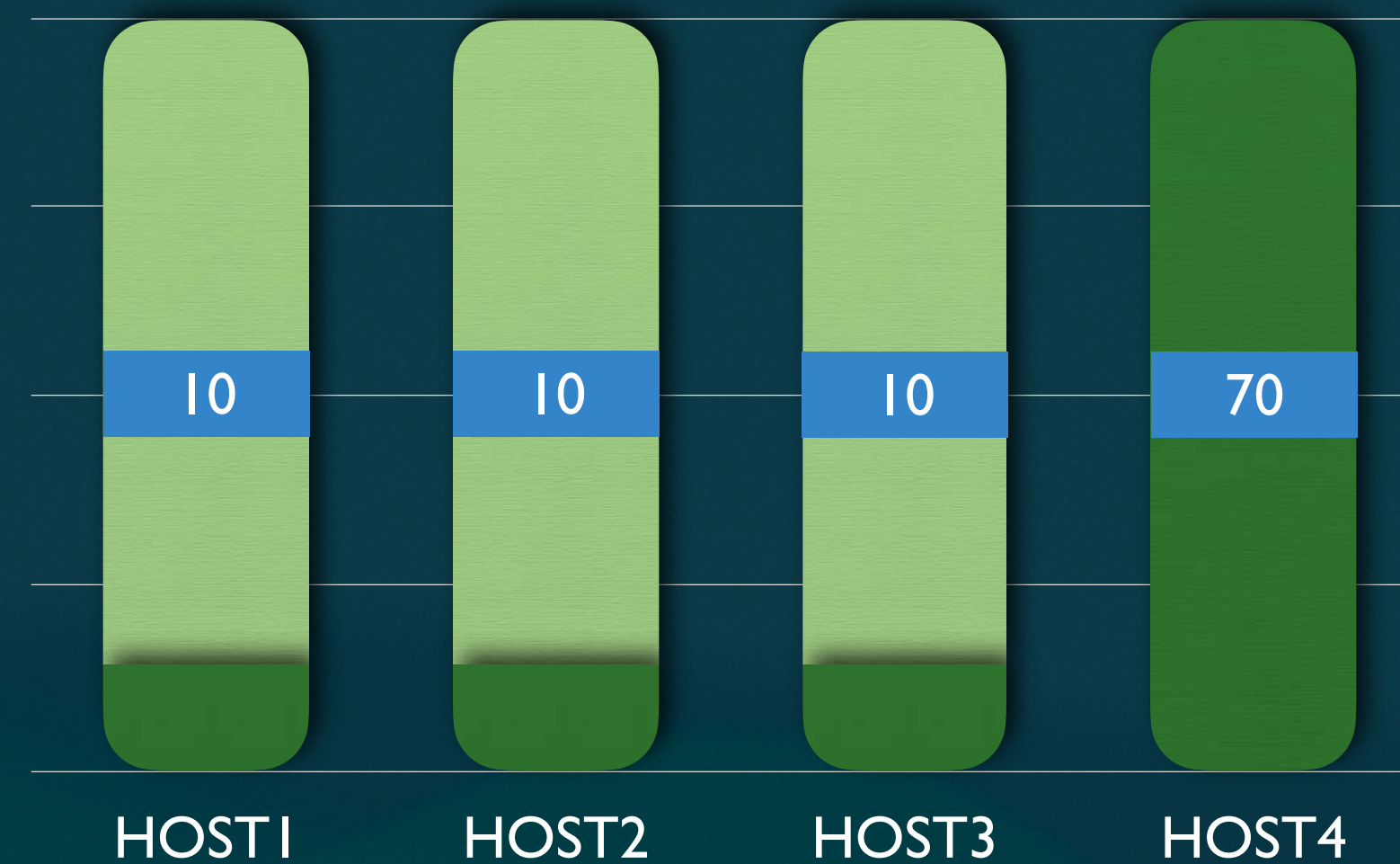
ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: skew vs. imbalance



skew = 6000

imbalance = 45%



skew = 60

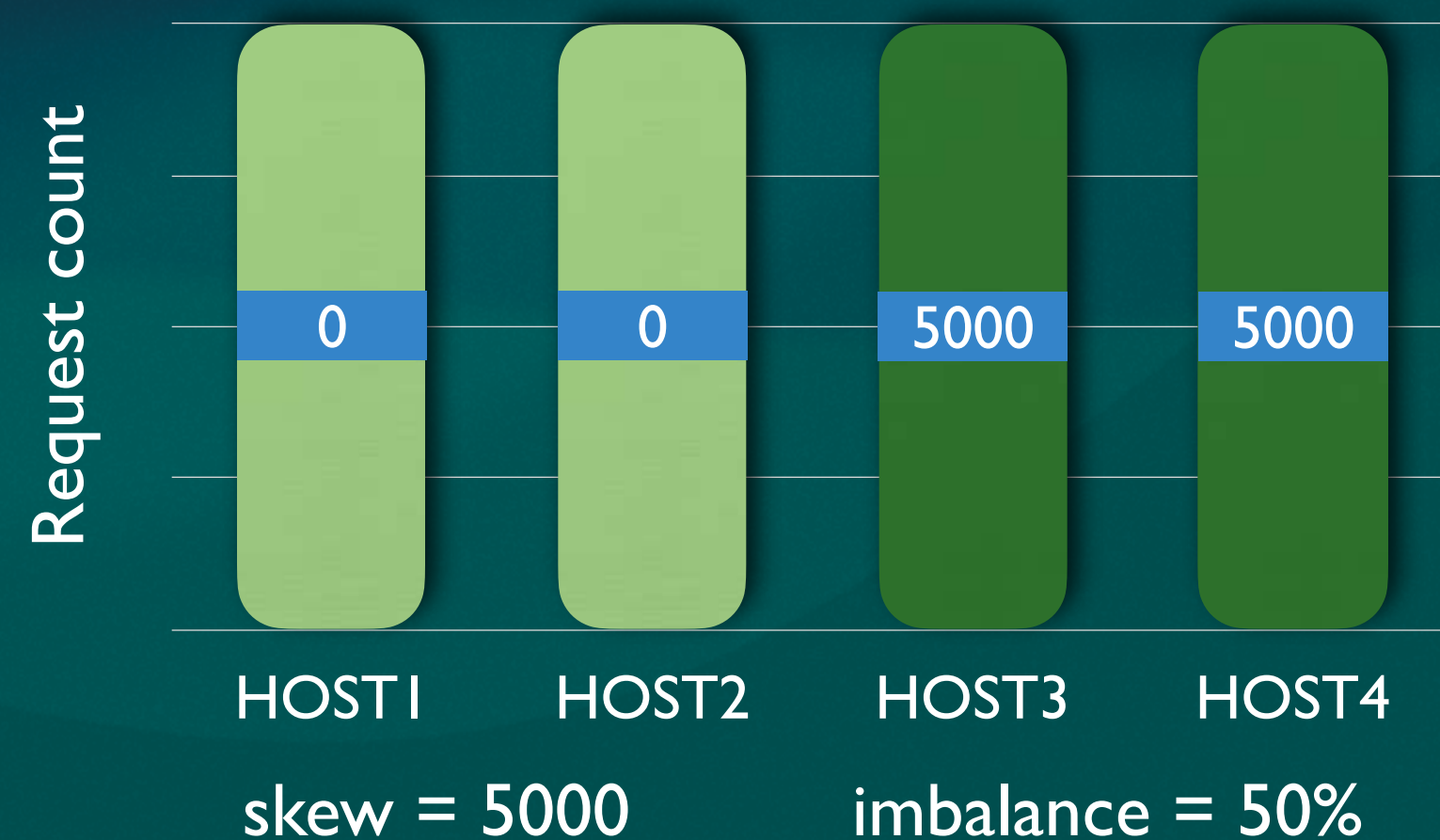
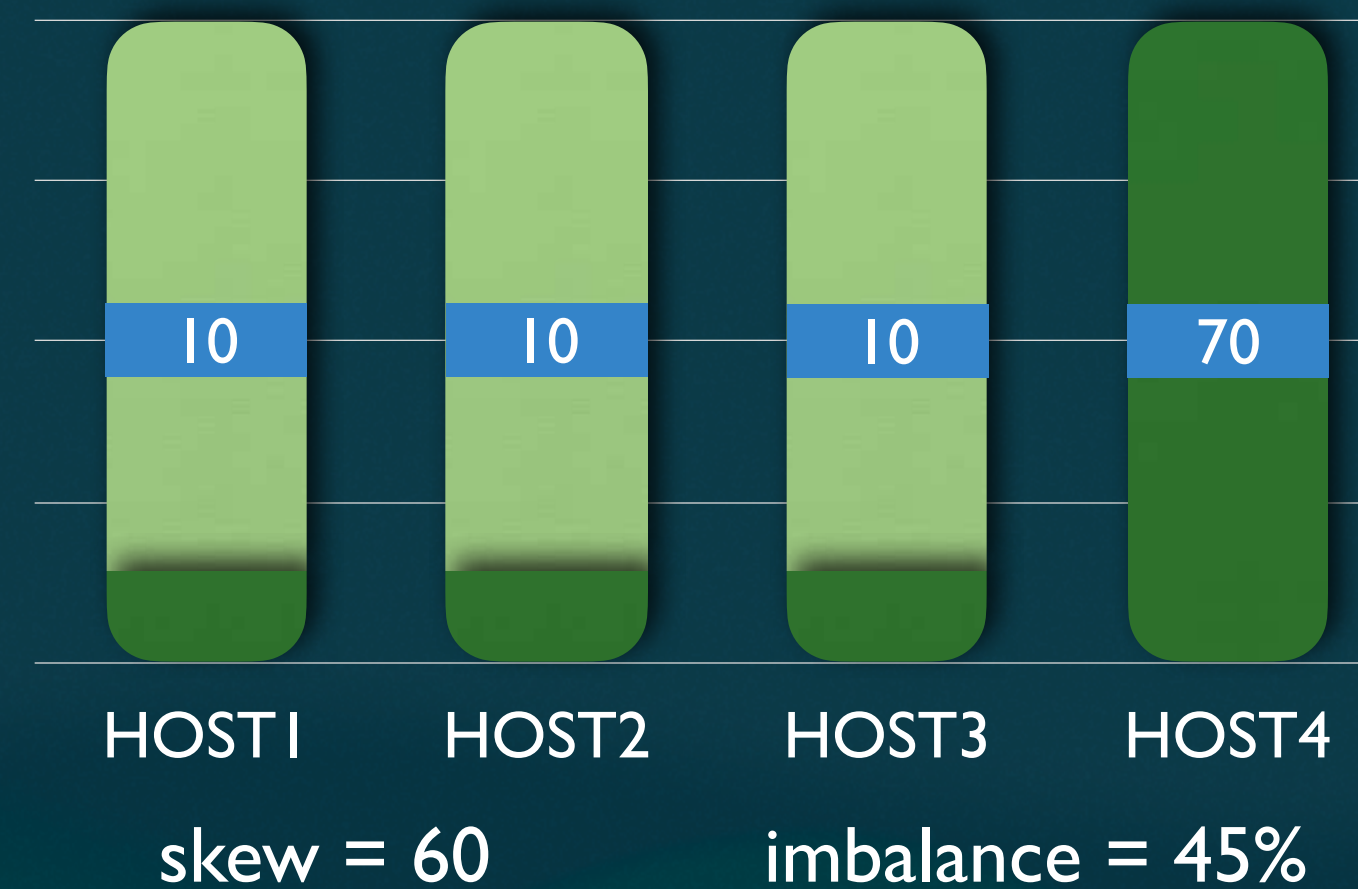
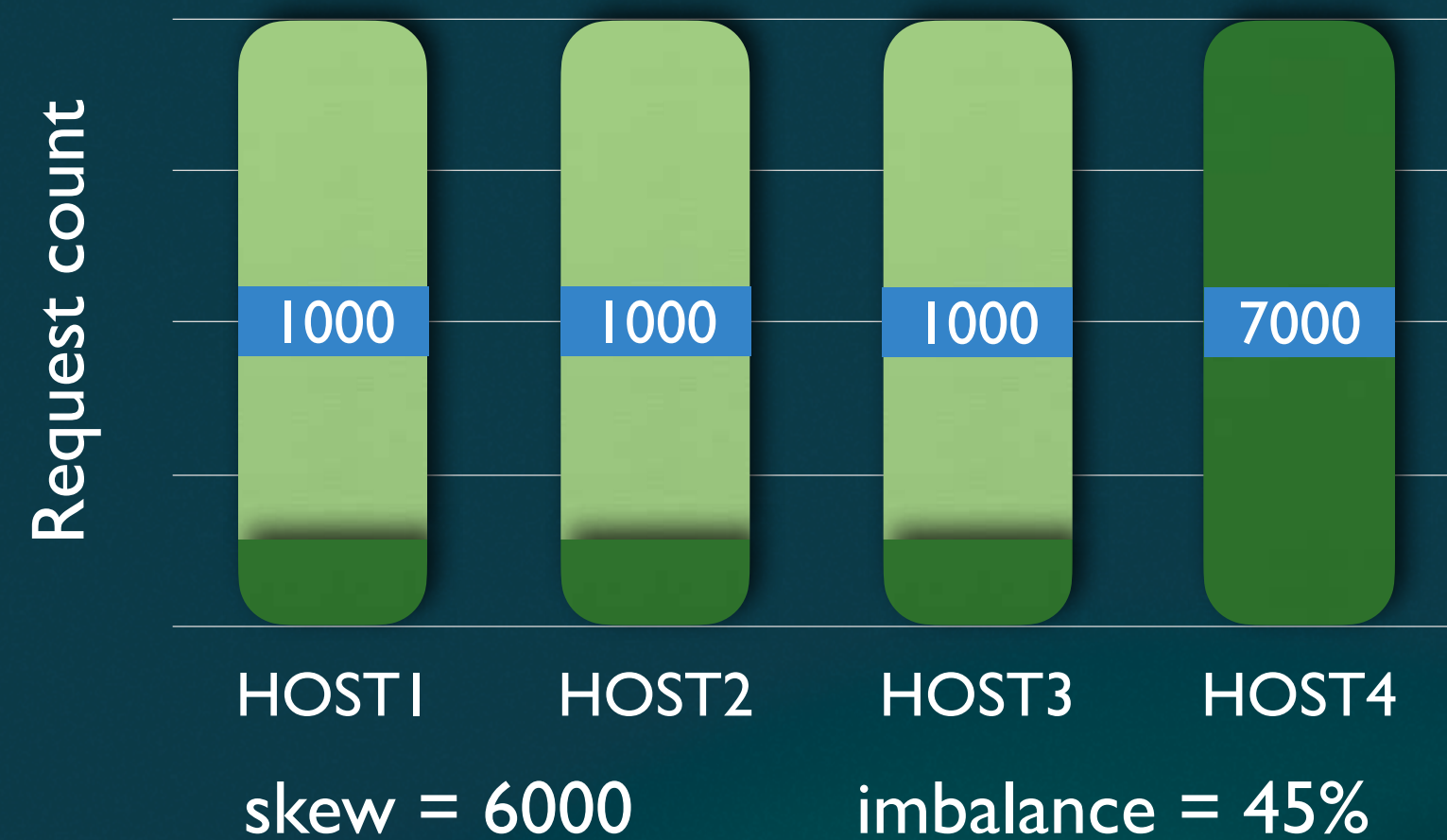
imbalance = 45%

skew = max - min

imbalance -
неравномерность
распределения в %

ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: skew vs. imbalance

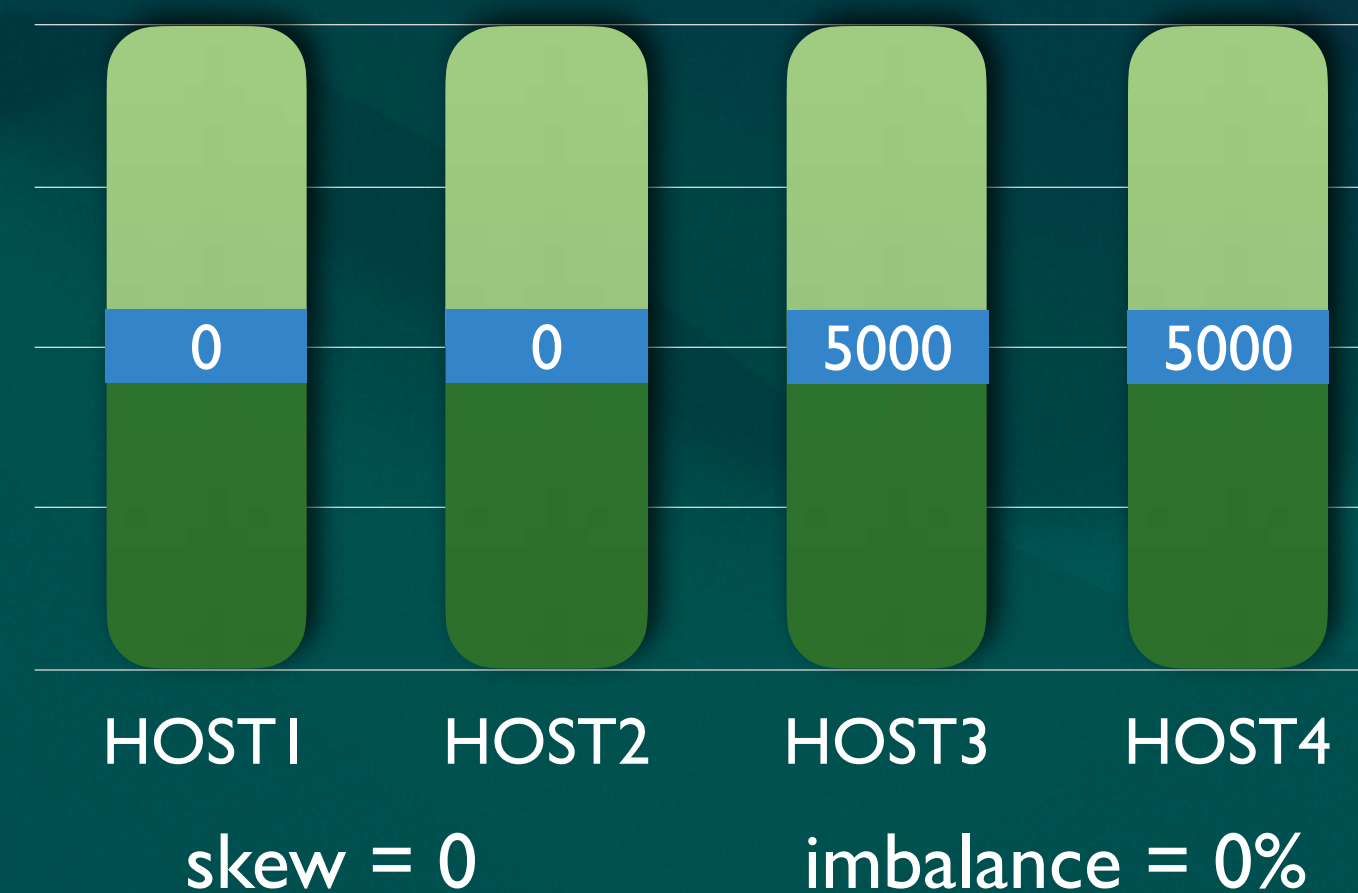
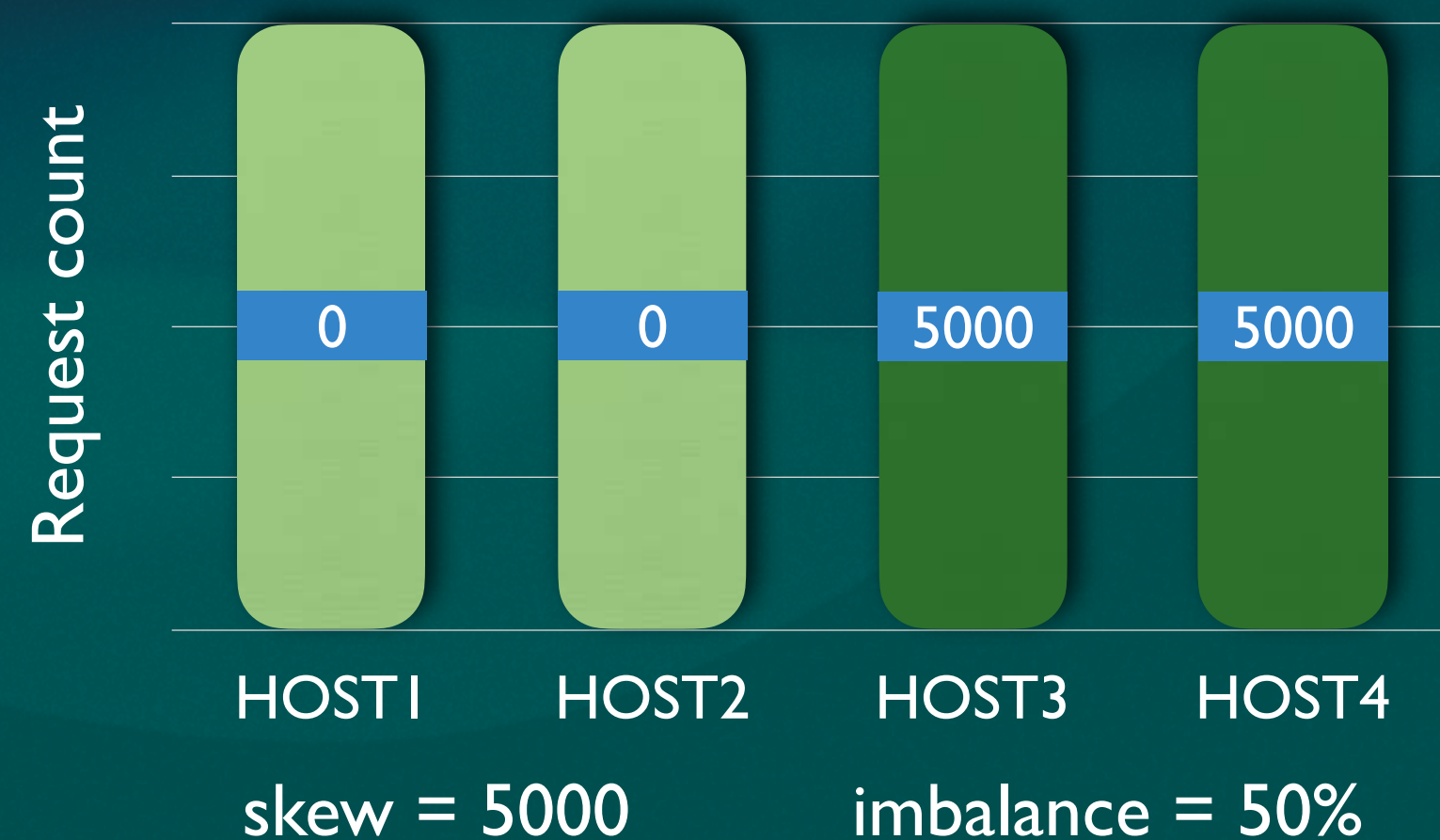
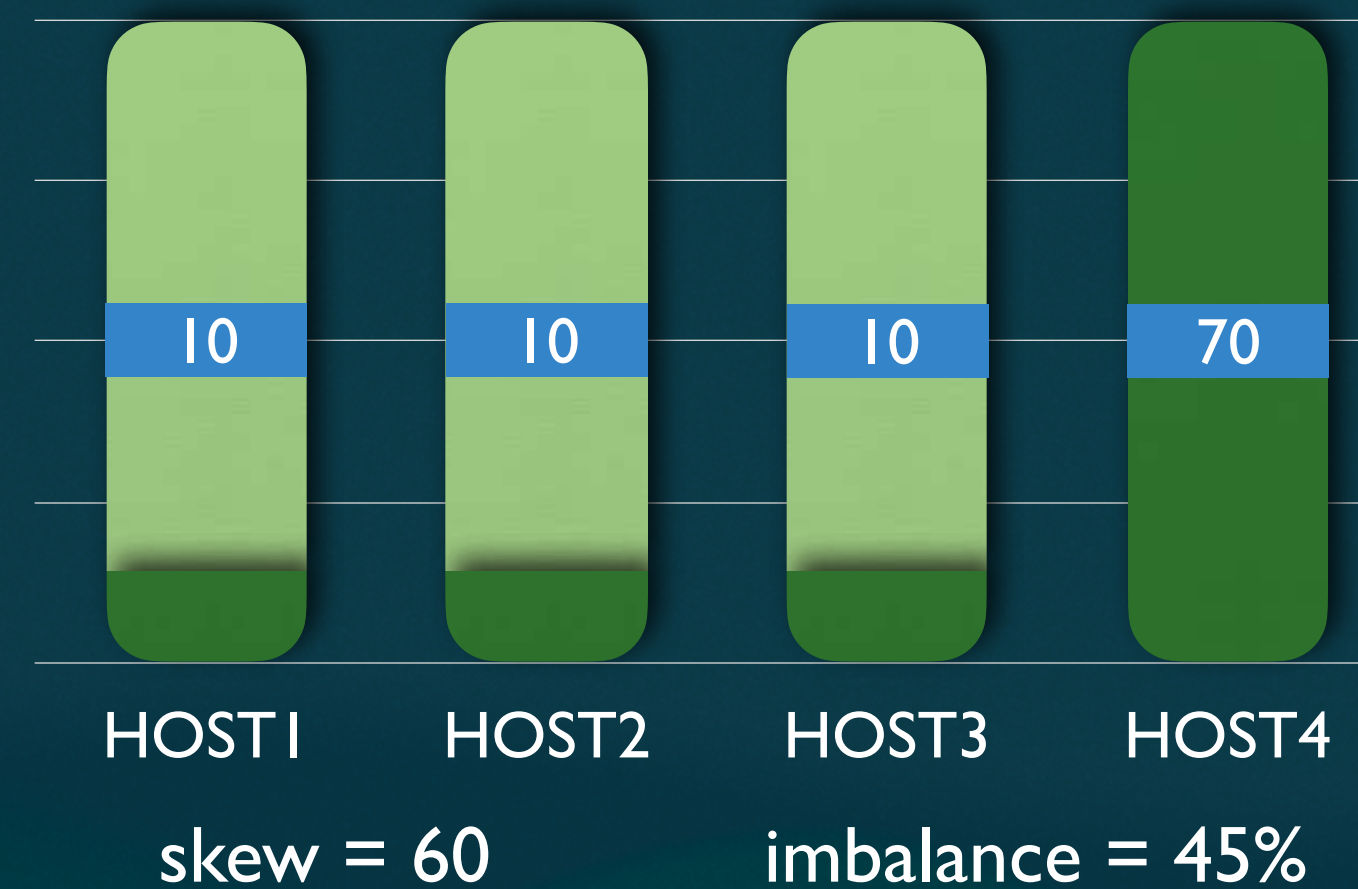
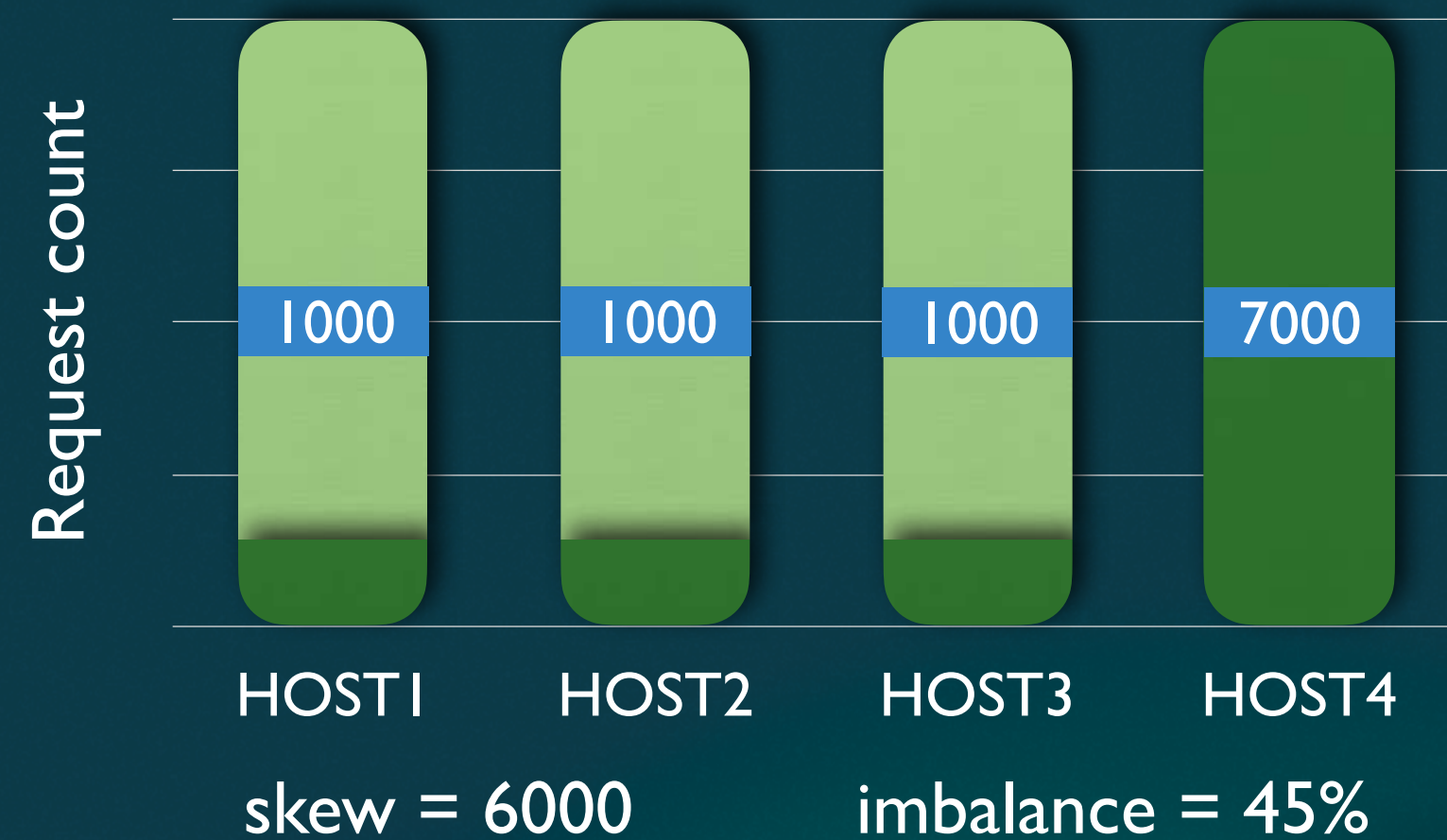


$\text{skew} = \text{max} - \text{min}$

imbalance -
неравномерность
распределения в %

ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: skew vs. imbalance

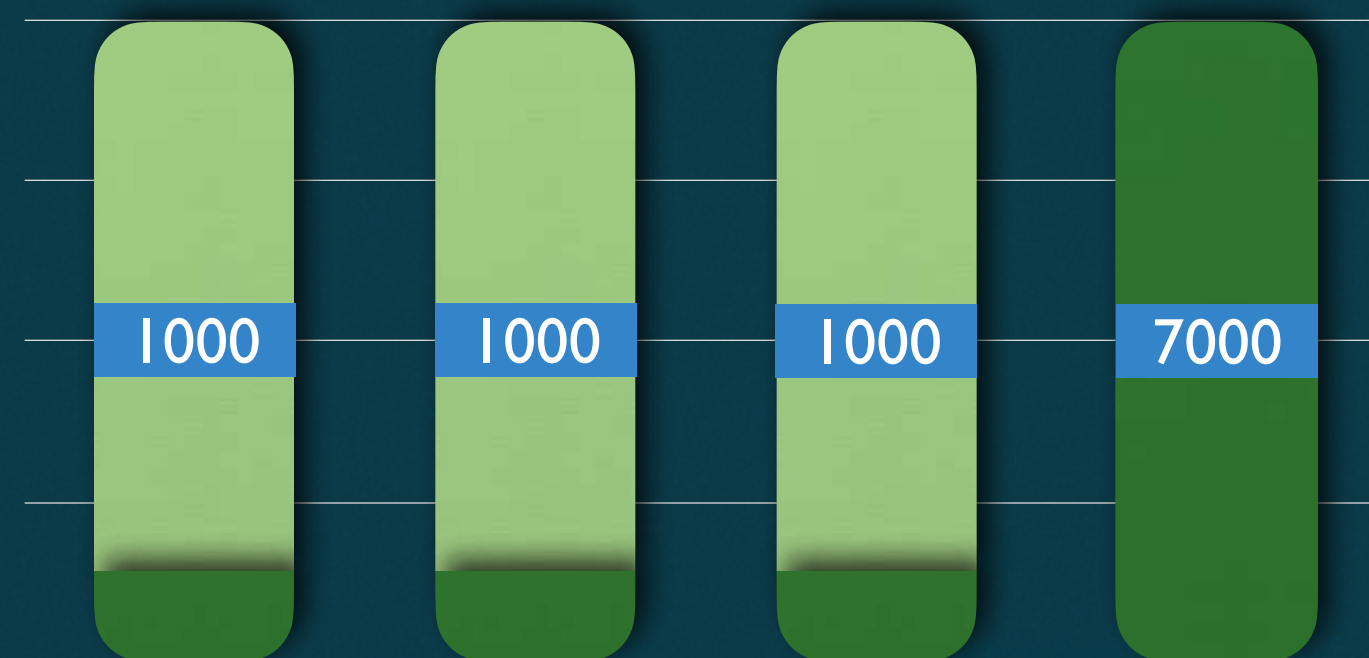


skew = max - min

imbalance -
неравномерность
распределения в %

ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: skew vs. imbalance



HOST1 HOST2 HOST3 HOST4
skew = 6000 imbalance = 45%

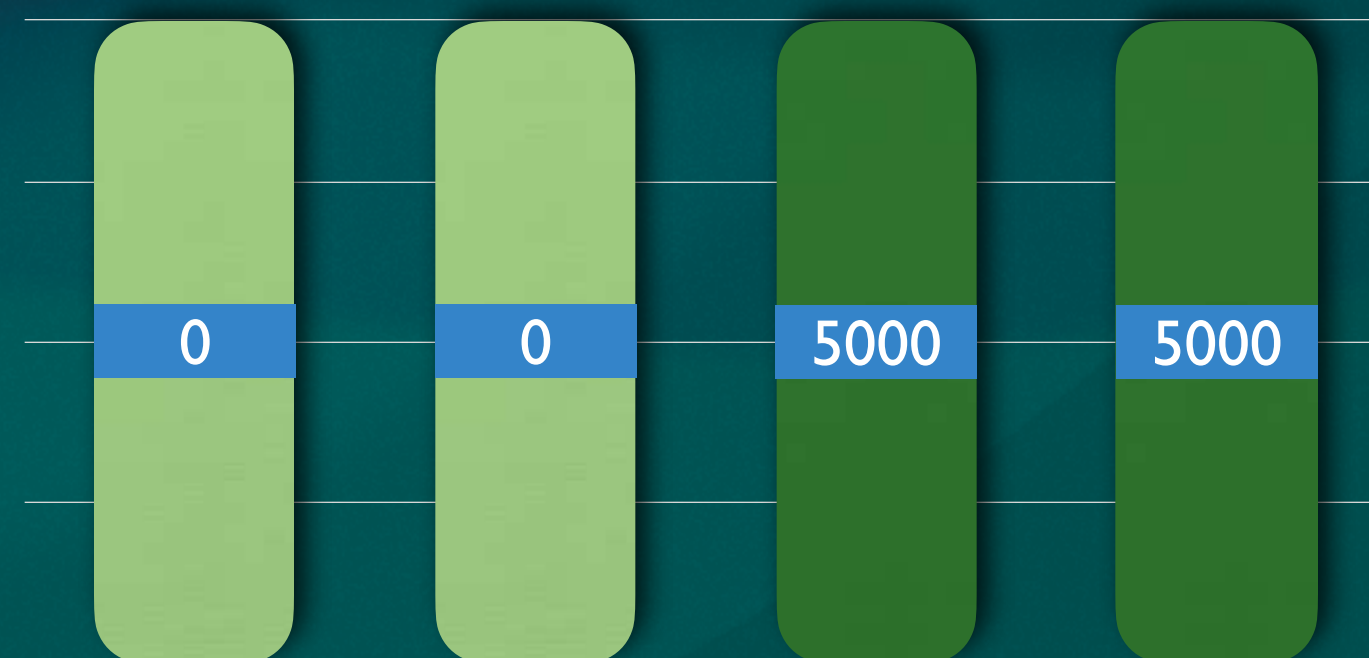
skew = max - min

imbalance -
неравномерность
распределения в %

Request count

Row count

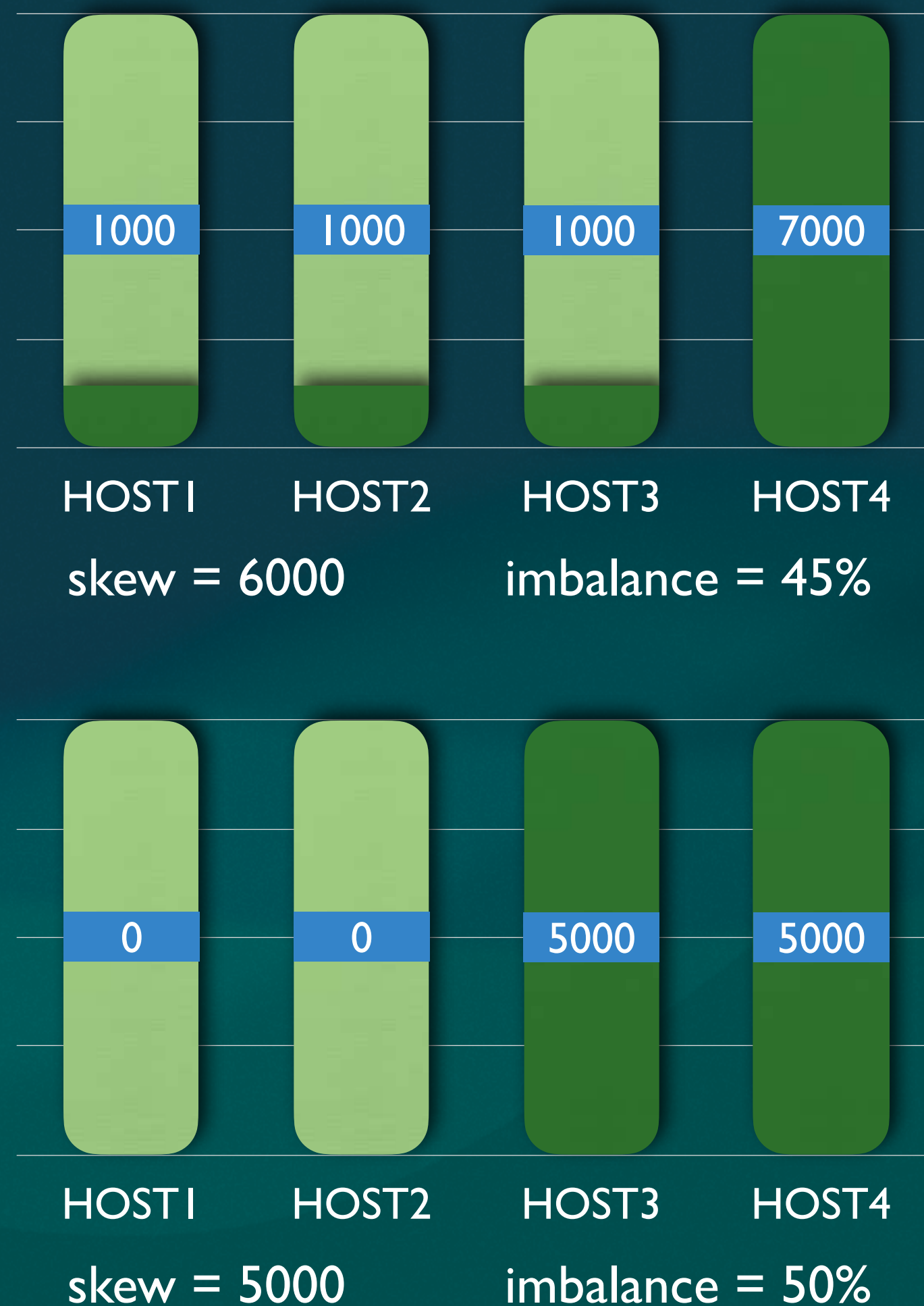
Size



HOST1 HOST2 HOST3 HOST4
skew = 5000 imbalance = 50%

ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: skew vs. imbalance



Request count
Row count
Size

Три реплики, трафик идет в одну

Высокий imbalance означает, что
новые узлы не помогут

Потолок кластера - самый
заполненный узел

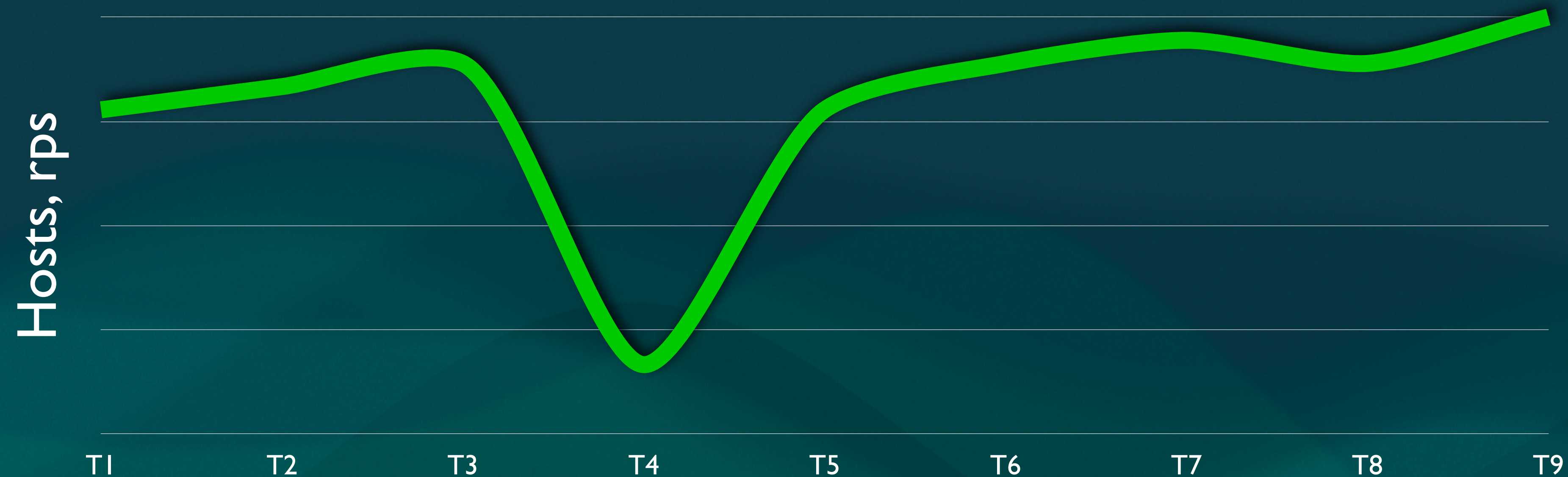
Отставшая репликация,
невозвращенная партиция или
непримененная мутация

ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: загруженность хостов

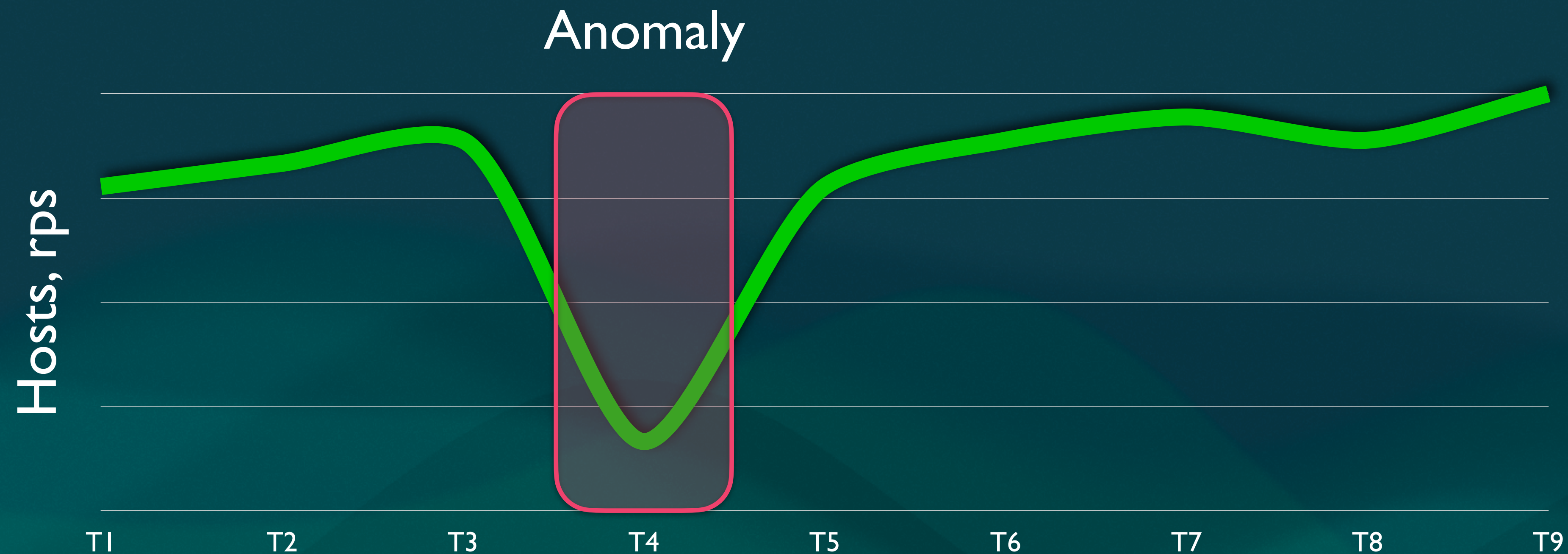
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ADQM Control: загруженность хостов



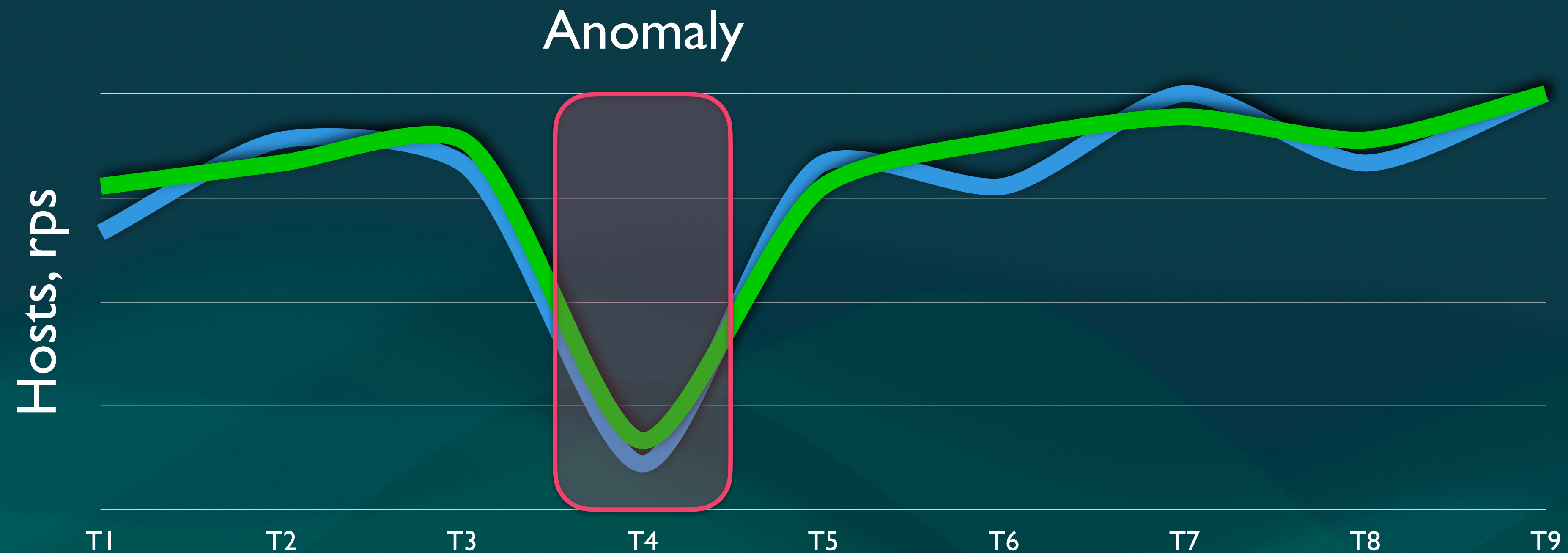
ADQM & ADQM Control: функциональнее, удобнее, умнее

ADQM Control: загруженность хостов, аномалии



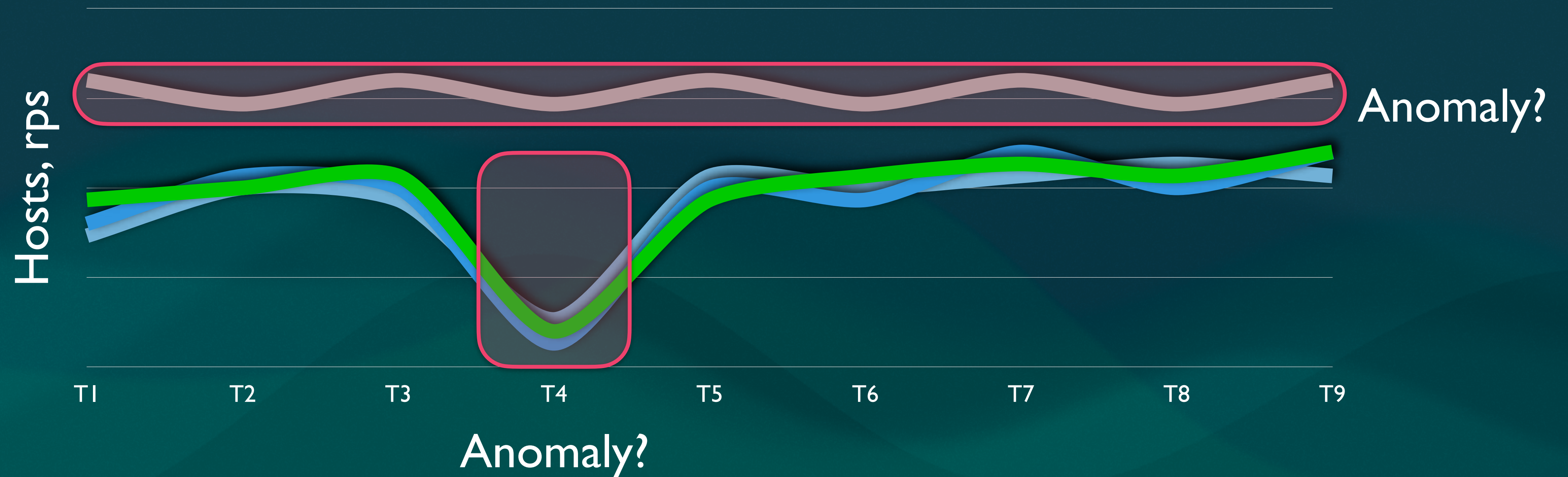
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ADQM Control: загруженность хостов, аномалии



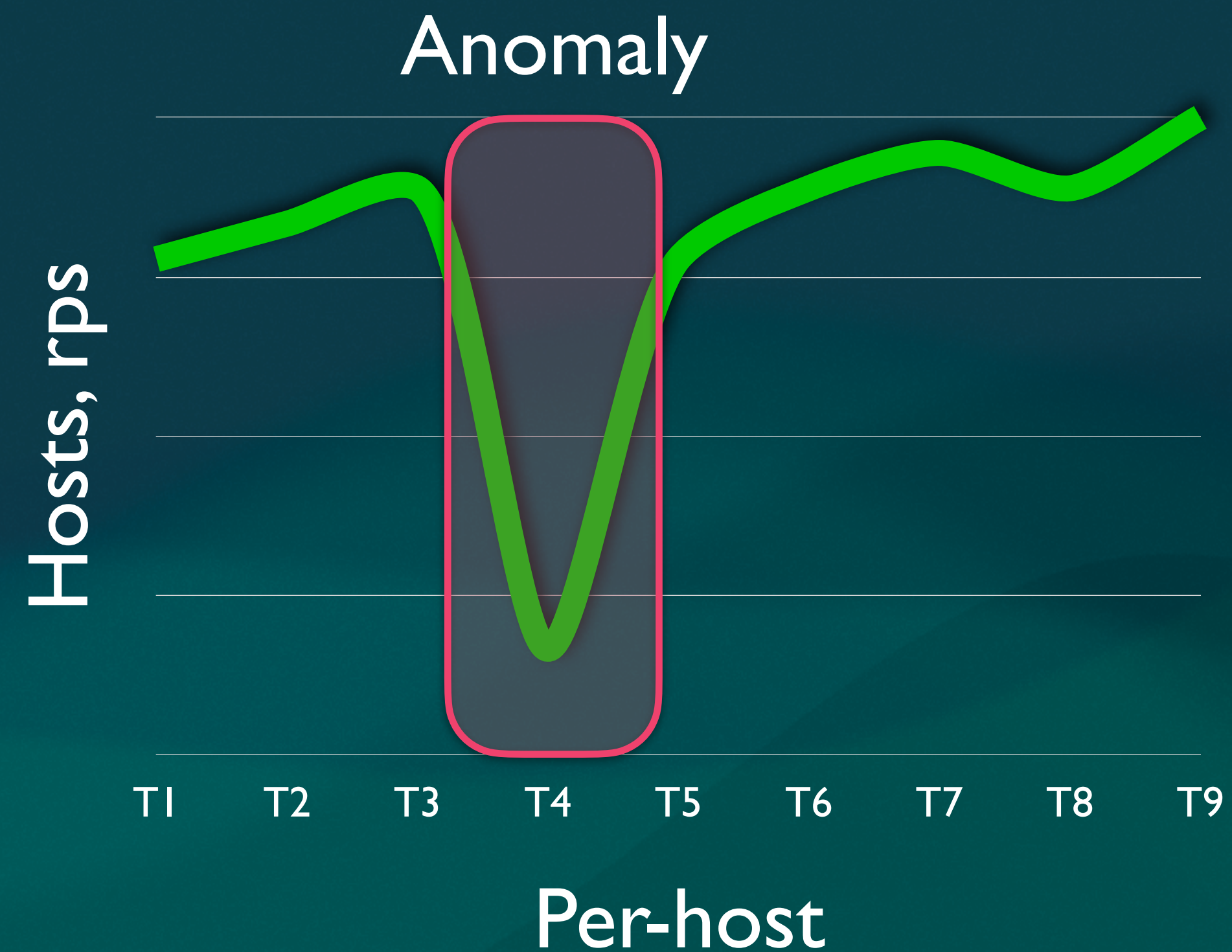
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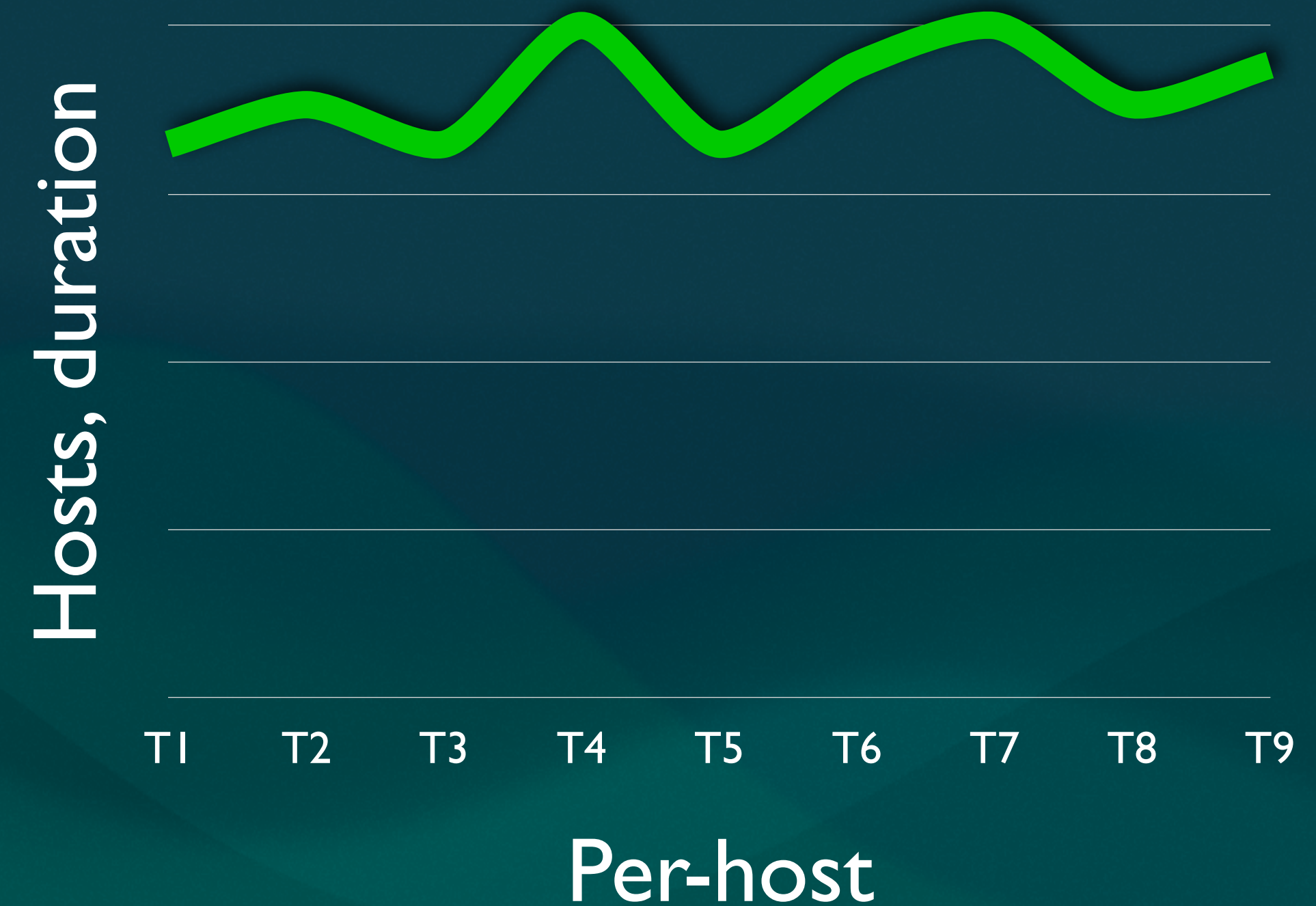
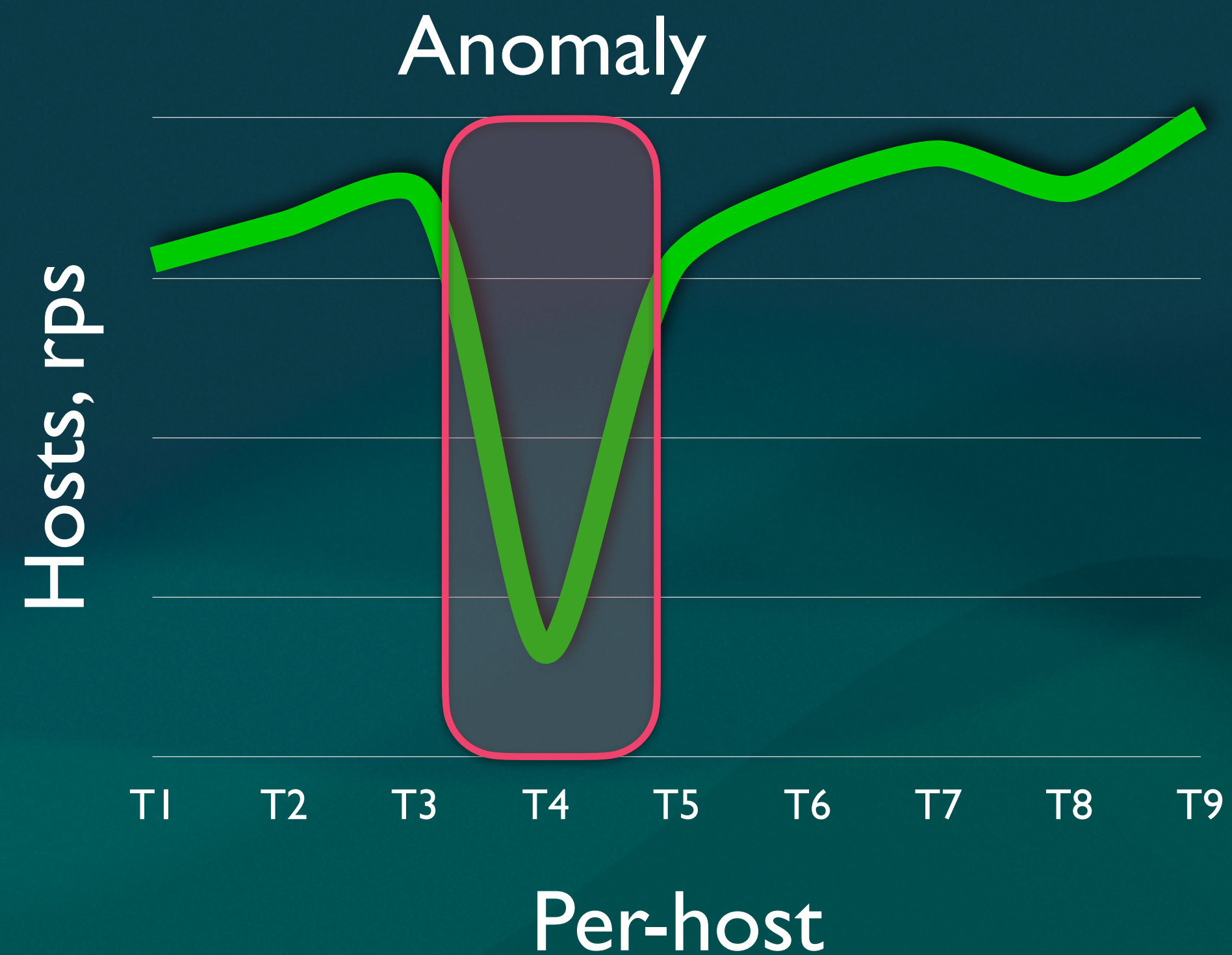
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ADQM Control: загруженность хостов, аномалии



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ADQM Control: загруженность хостов, аномалии

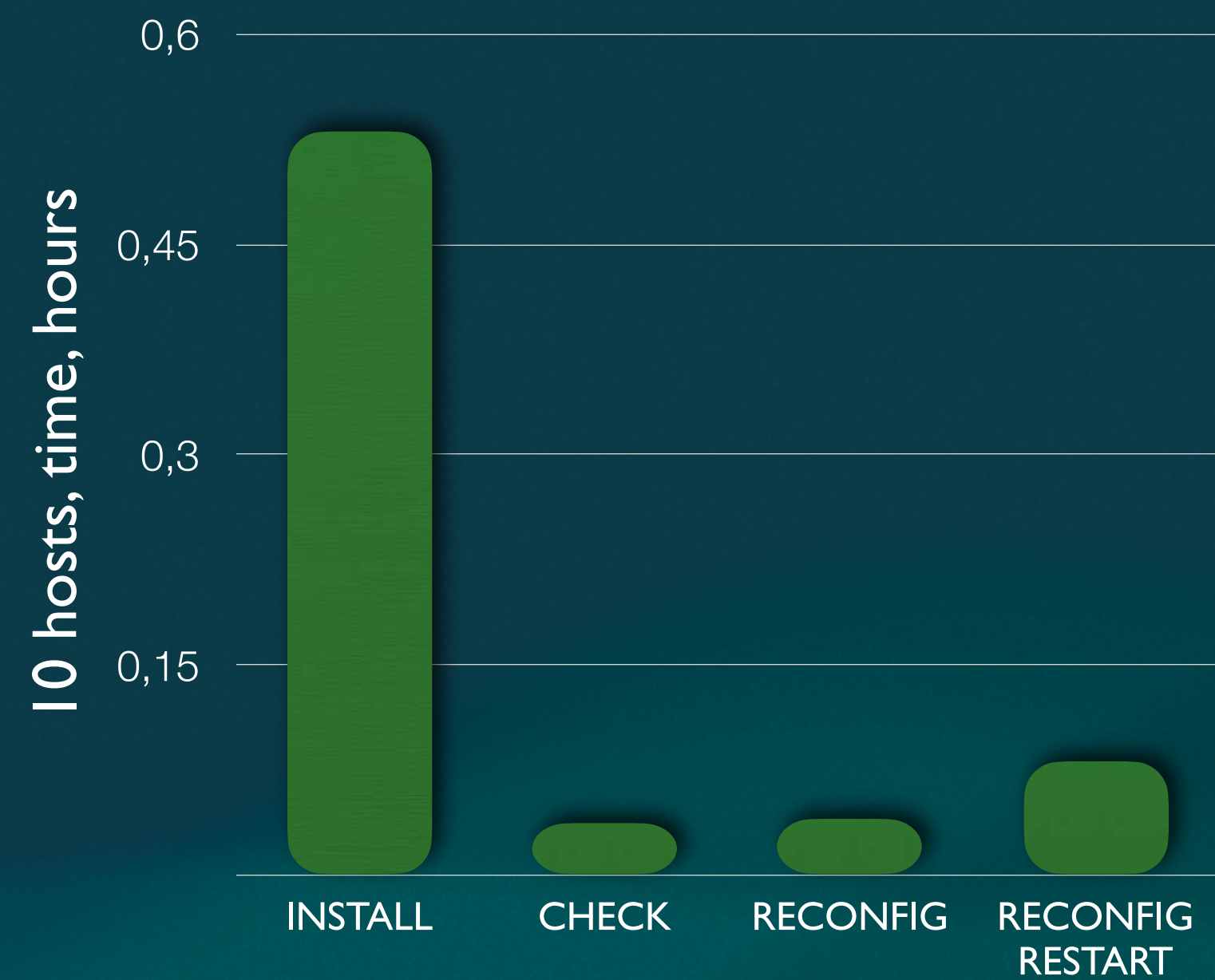


ADQM & ADQM Control: функциональнее, удобнее, умнее

Next releases

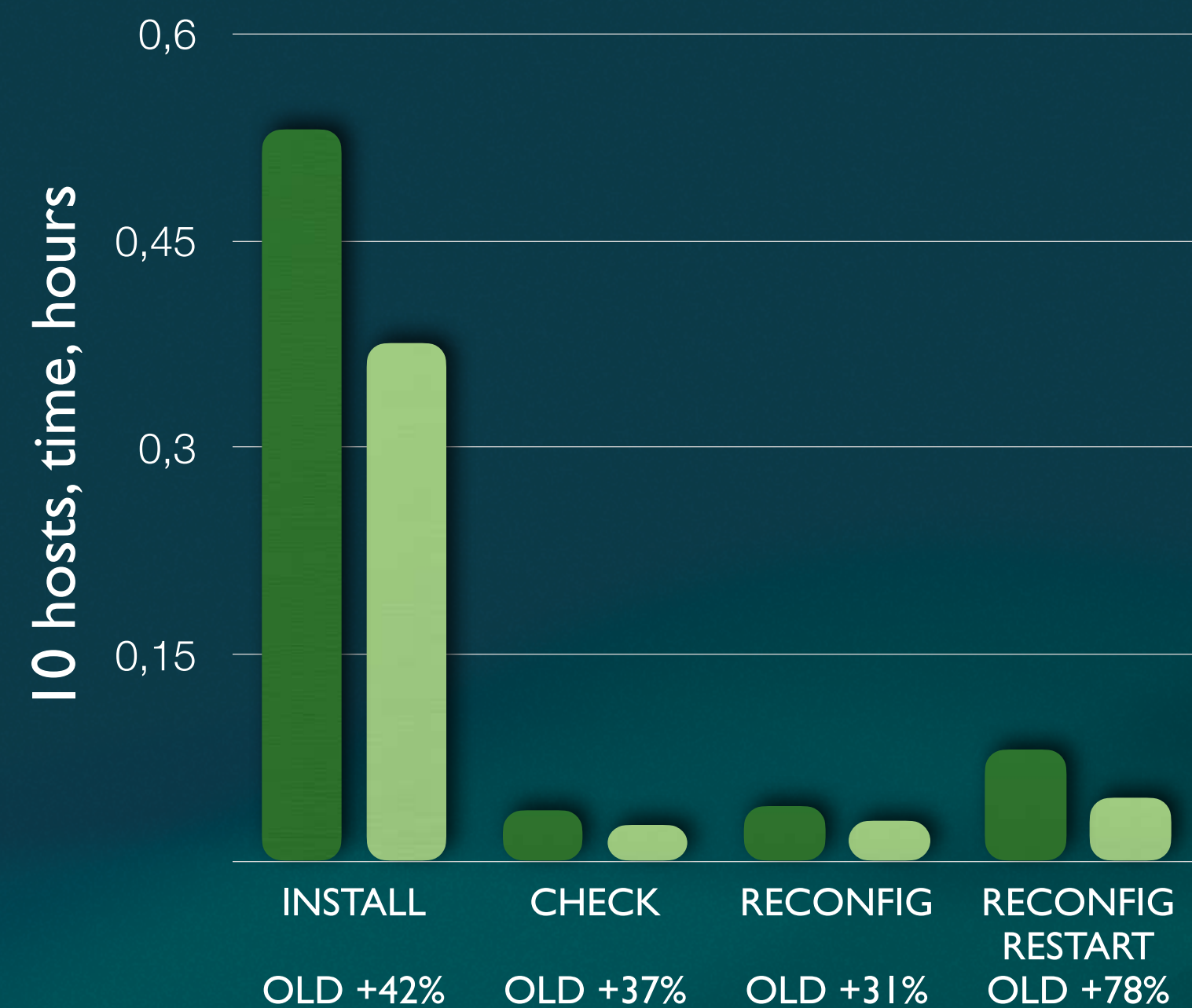
ADQM & ADQM Control: функциональнее, удобнее, умнее

Next releases



ADQM & ADQM Control: функциональнее, удобнее, умнее

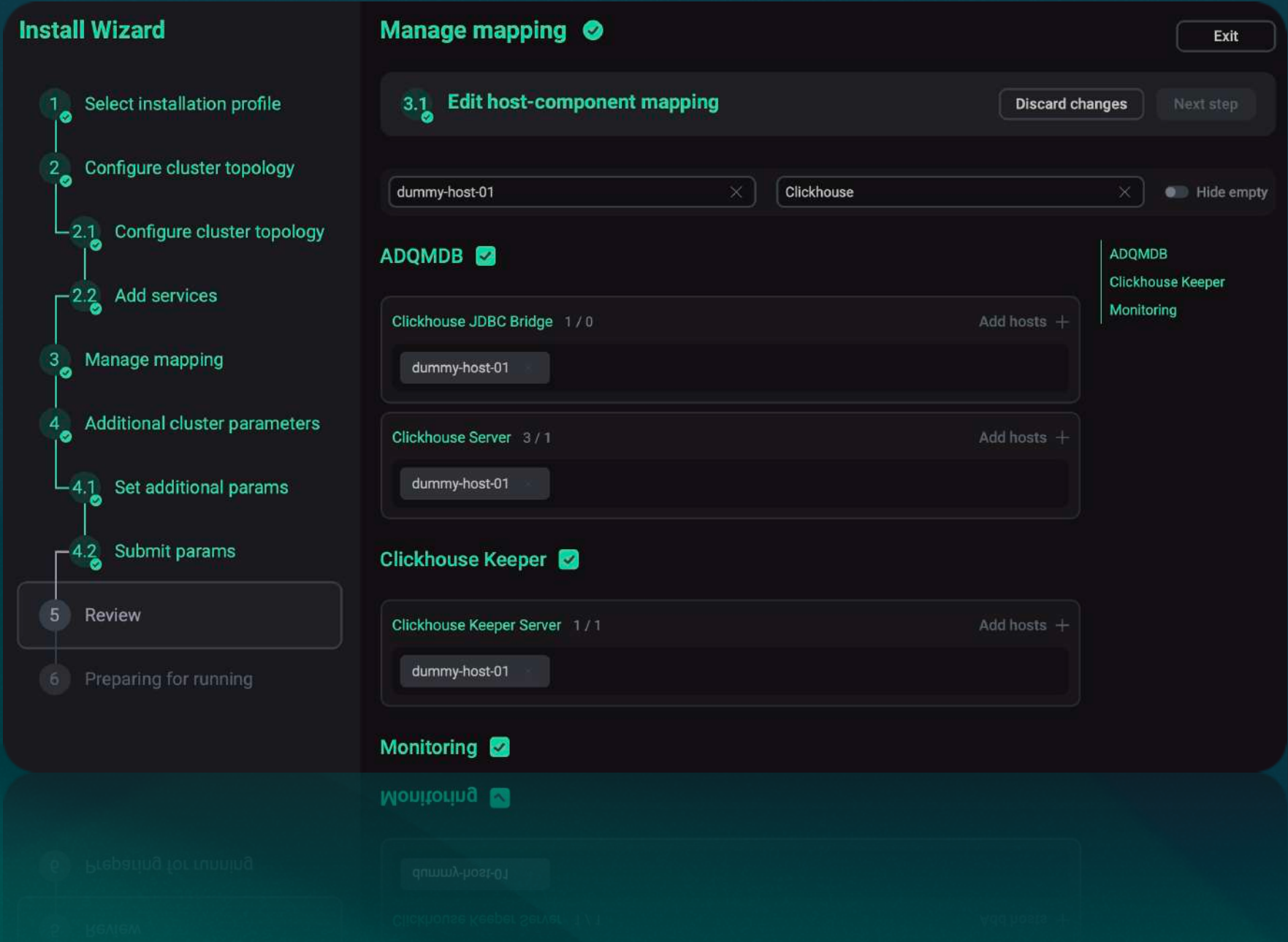
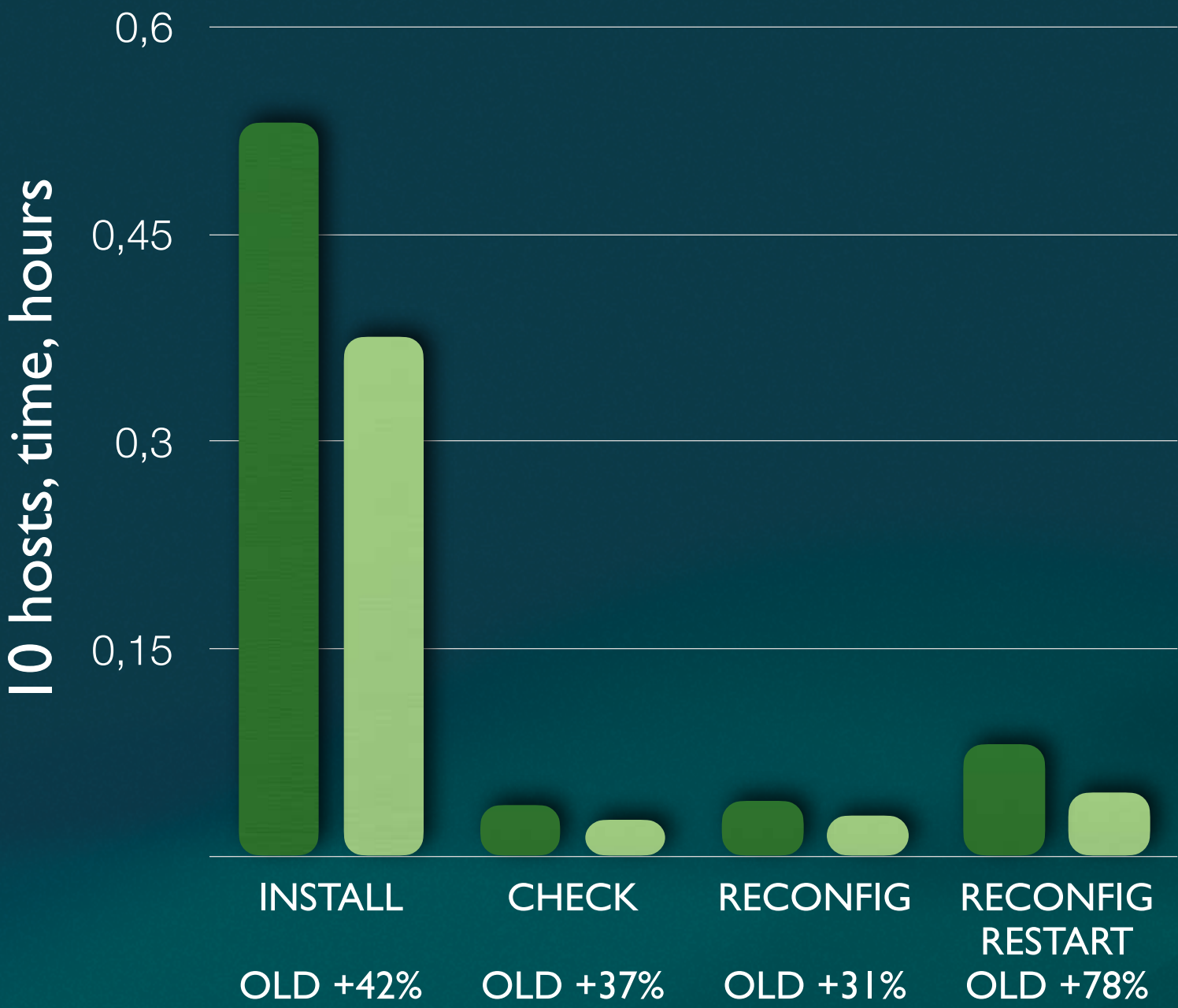
Next releases



Оптимизации бандла

ADQM & ADQM Control: функциональнее, удобнее, умнее

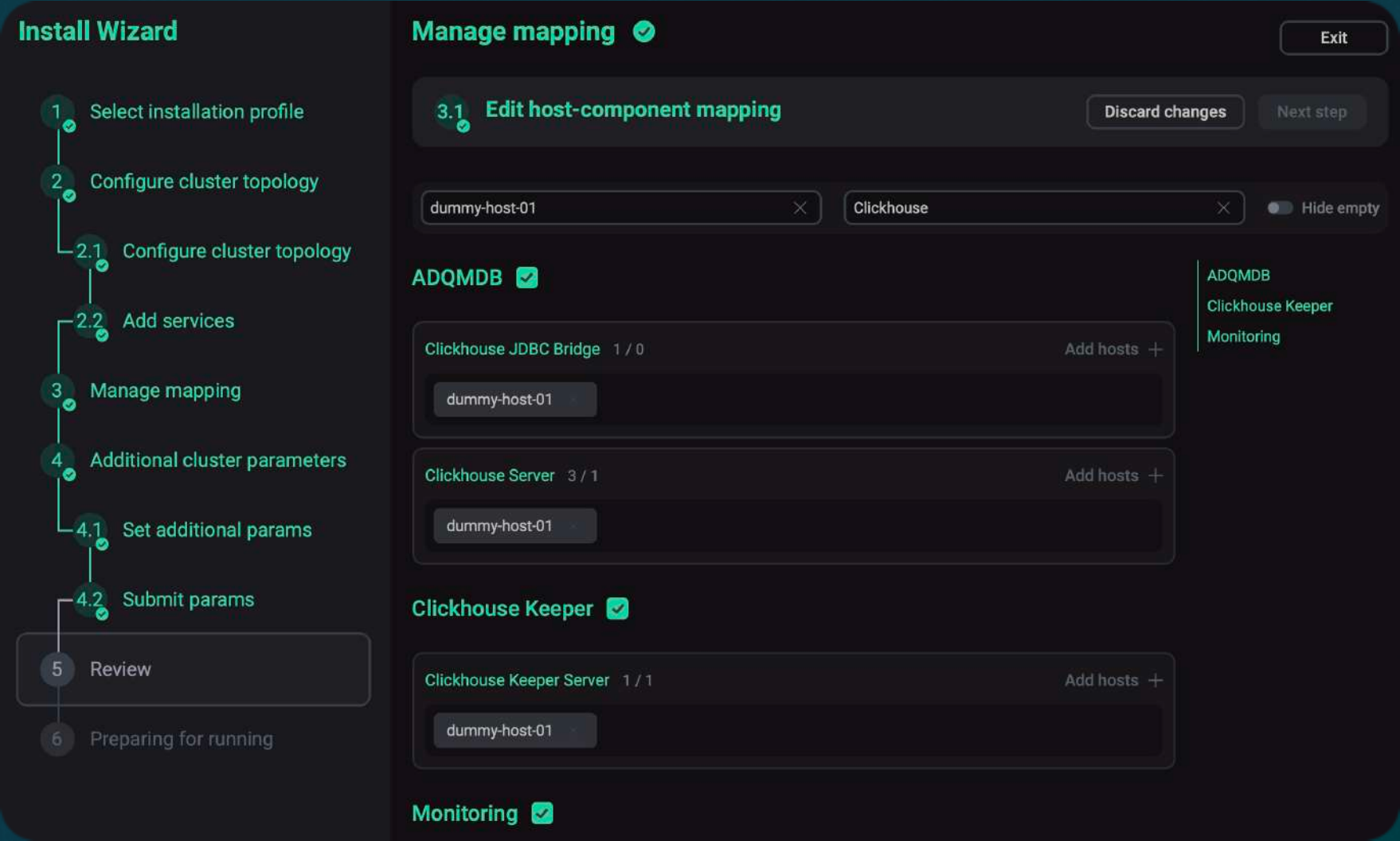
Next releases



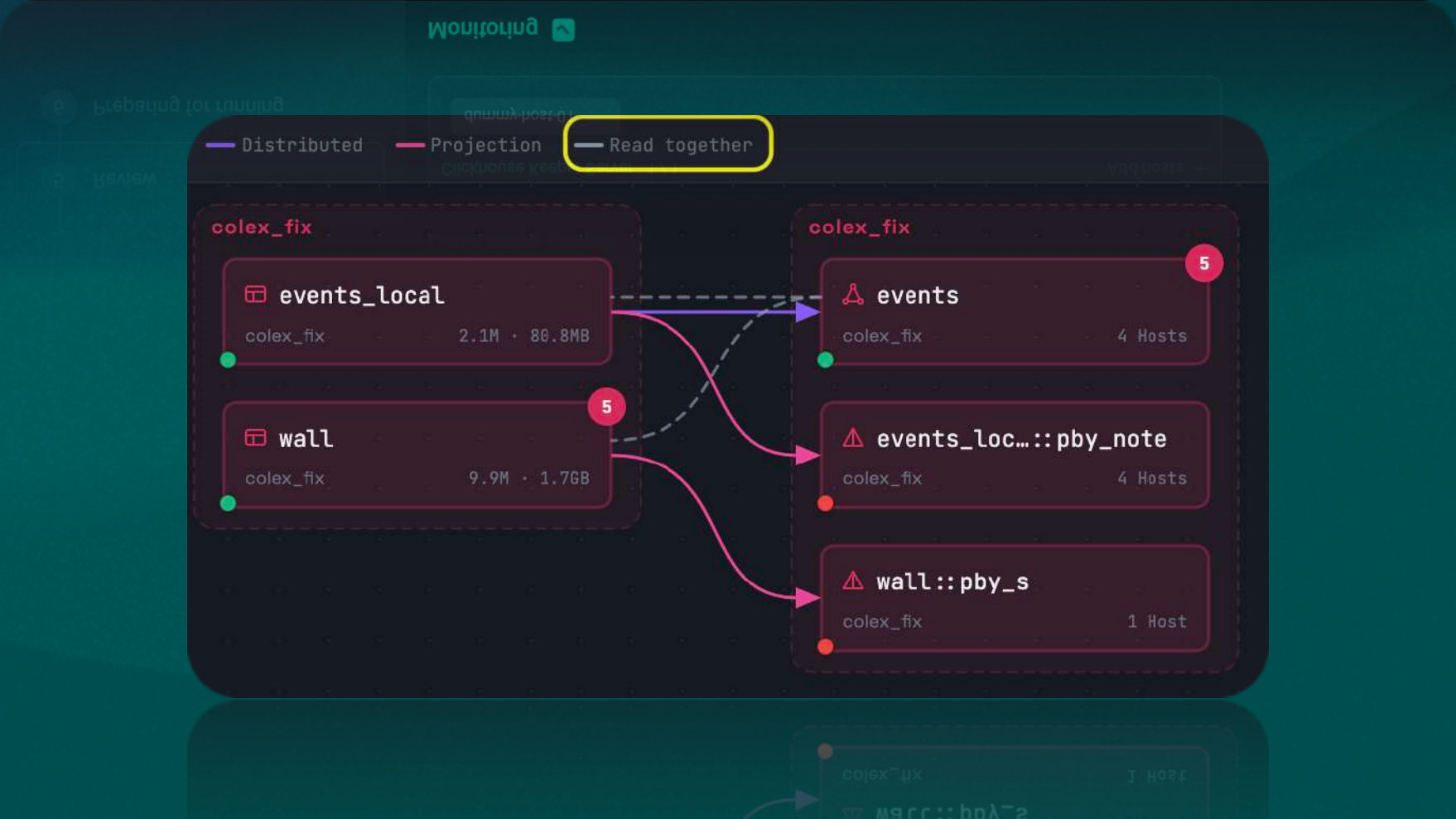
Оптимизации бандла

ADQM & ADQM Control: функциональнее, удобнее, умнее

Next releases



Оптимизации бандла
Dependency expansion



ADQM & ADQM Control: функциональнее, удобнее, умнее

Next releases

1 Select installation profile

2 Configure cluster topology

2.1 Configure cluster topology

2.2 Add services

3 Manage mapping

4 Additional cluster parameters

4.1 Set additional params

4.2 Submit params

5 Review

6 Preparing for running

3.1 Edit host-component mapping

Discard changesNext step

dummy-host-01Clickhouse

Hide empty

ADQMDB

Clickhouse JDBC Bridge 1 / 0

dummy-host-01

Add hosts +

Clickhouse Server 3 / 1

dummy-host-01

Add hosts +

Clickhouse Keeper

Clickhouse Keeper Server 1 / 1

dummy-host-01

Add hosts +

Monitoring

[2]SQL2026-07-13 14:15:26 UTC

SELECT sum(id) FROM colex_plan.t_wall WHERE cityHash64(id) = 42

TableChartPlan1 rows in 0.16s

Search results...Download

colex_plan.t_wall: 3 parts · 11M rows wall 18 ms cpu 242 ms ×14 mem 254.41 KB

EstimatedActualLogioPipe

Aggregating <1 ms · <1%
In 1 → out 1

Filter 40 ms · 14%
passes 0%

Read colex_plan.t_wall 233 ms · 85%
parts 343 · granules 1,367 × 1,367
Filter can't use the sorting key

Aggregating

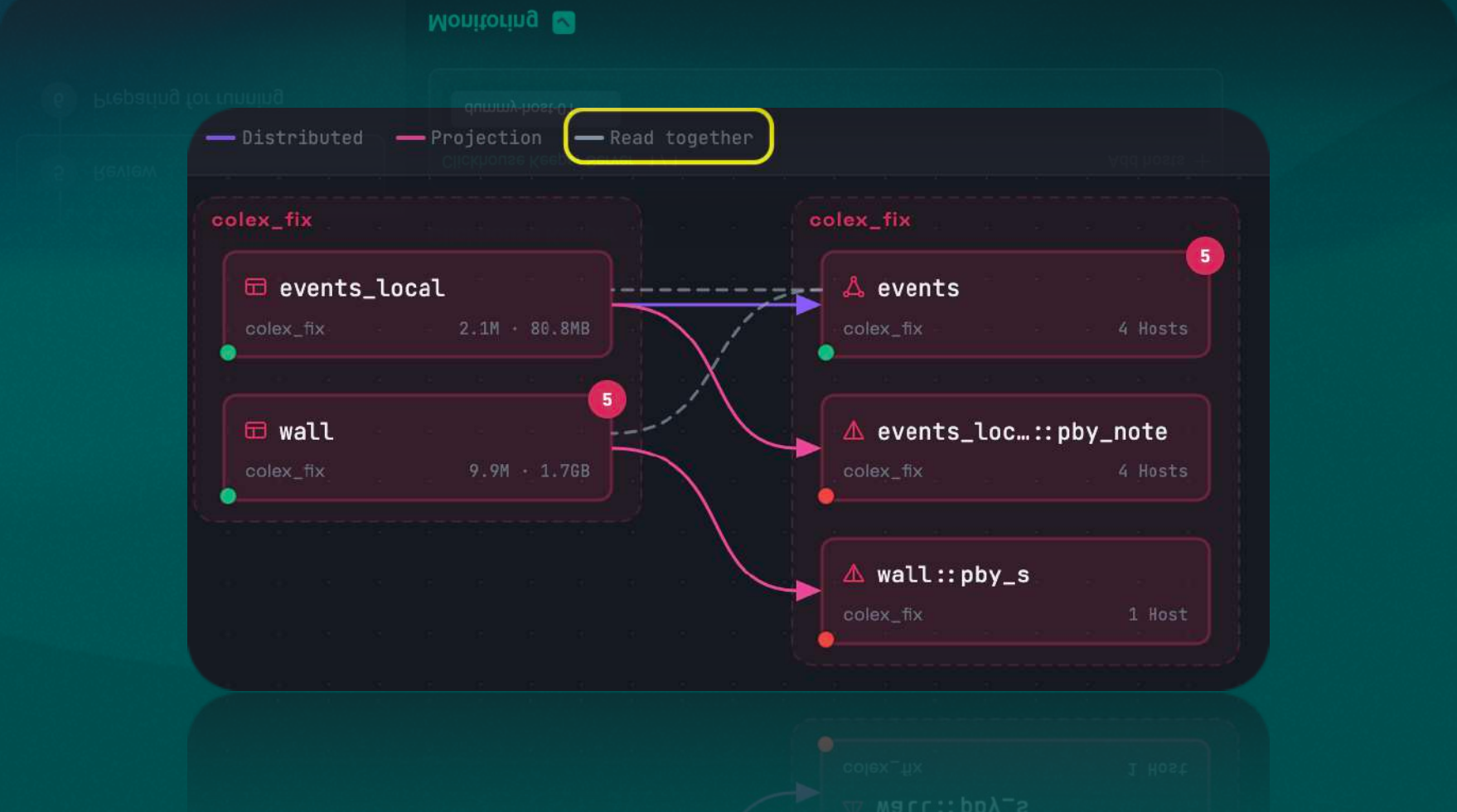
working <1 ms
waiting for data 295 ms
waiting on next step <1 ms
rows in → out 1 → 1
share of query time <1%

FINDINGS · 1

Filter can't use the sorting key: no condition in the filter is usable by the sorting key (id) - all 1,367 granules stay selected

Show stepHow to fix

Оптимизации бандла
Dependency expansion
Query Plan



ADQM & ADQM Control: функциональнее, удобнее, умнее

Next releases

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dummy-host-01

Clickhouse

Hide empty

ADQMDB

Clickhouse JDBC Bridge 1 / 0

dummy-host-01

Add hosts +

Clickhouse Server 3 / 1

dummy-host-01

Add hosts +

Clickhouse Keeper

Clickhouse Keeper Server 1 / 1

dummy-host-01

Add hosts +

Monitoring

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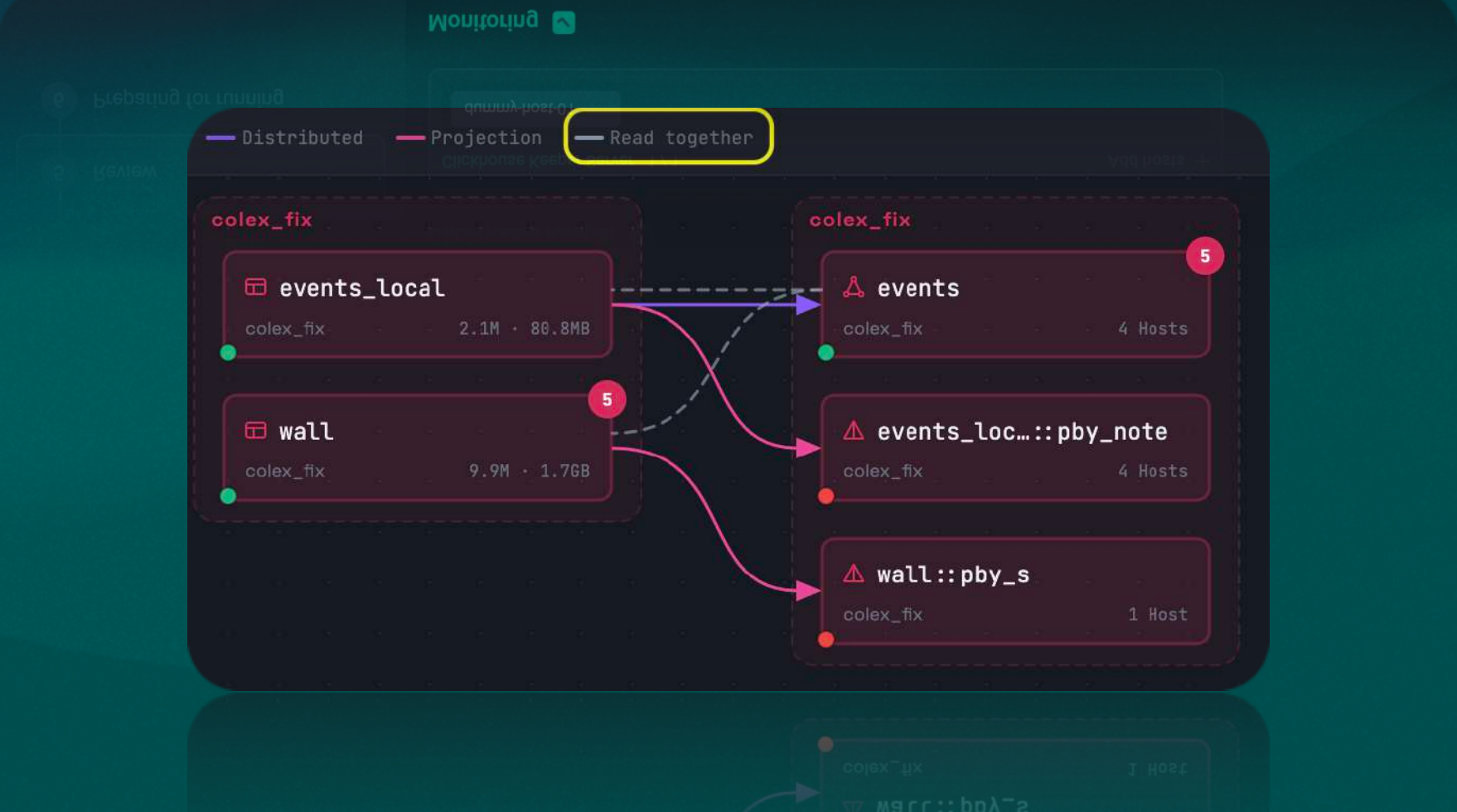
rows in → out1 → 1

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Оптимизации бандла
Dependency expansion
Query Plan
VM Monitoring

boards: Ingest · Query · Replication · Parts · Hosts

Cluster scorecard

Cluster health

Min server uptime4.59 hour

Cluster query rate1.27 req/s

Query error rate1.00 ops/s

Worst disk free0.2%

Subsystems (click to drill)

ClickHouseUP

CoordinationUP

ProxyUP

HostsUP

MonitoringUP

CH nodes live / expected100%

Active problems & firing alerts

Active problems (severity-sorted)

severity	problem	object	value
CRITICAL	CH disk <10% free	ch2-9363	0.00215
CRITICAL	CH disk <10% free	ch1-9363	0.00209
CRITICAL	CH disk <10% free	ch3-9363	0.00309
CRITICAL	CH disk <10% free	ch5-9363	0.00309

Firing / pending alerts

severity	alert	object	state
CRITICAL	ADQMCHDiskCritical	ch1-9363	FIRING
CRITICAL	ADQMCHDiskCritical	ch2-9363	FIRING
CRITICAL	ADQMCHDiskCritical	ch3-9363	FIRING
CRITICAL	ADQMCHDiskCritical	ch5-9363	FIRING

ADQM & ADQM Control: функциональнее, удобнее, умнее

Next releases

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Discard changesNext step

dummy-host-01Clickhouse

Hide empty

ADQMDB

Clickhouse JDBC Bridge 1 / 0

dummy-host-01

Add hosts +

Clickhouse Server 3 / 1

dummy-host-01

Add hosts +

Clickhouse Keeper

Clickhouse Keeper Server 1 / 1

dummy-host-01

Add hosts +

Monitoring

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Aggregating<1 ms · <1%In 1 → out 1

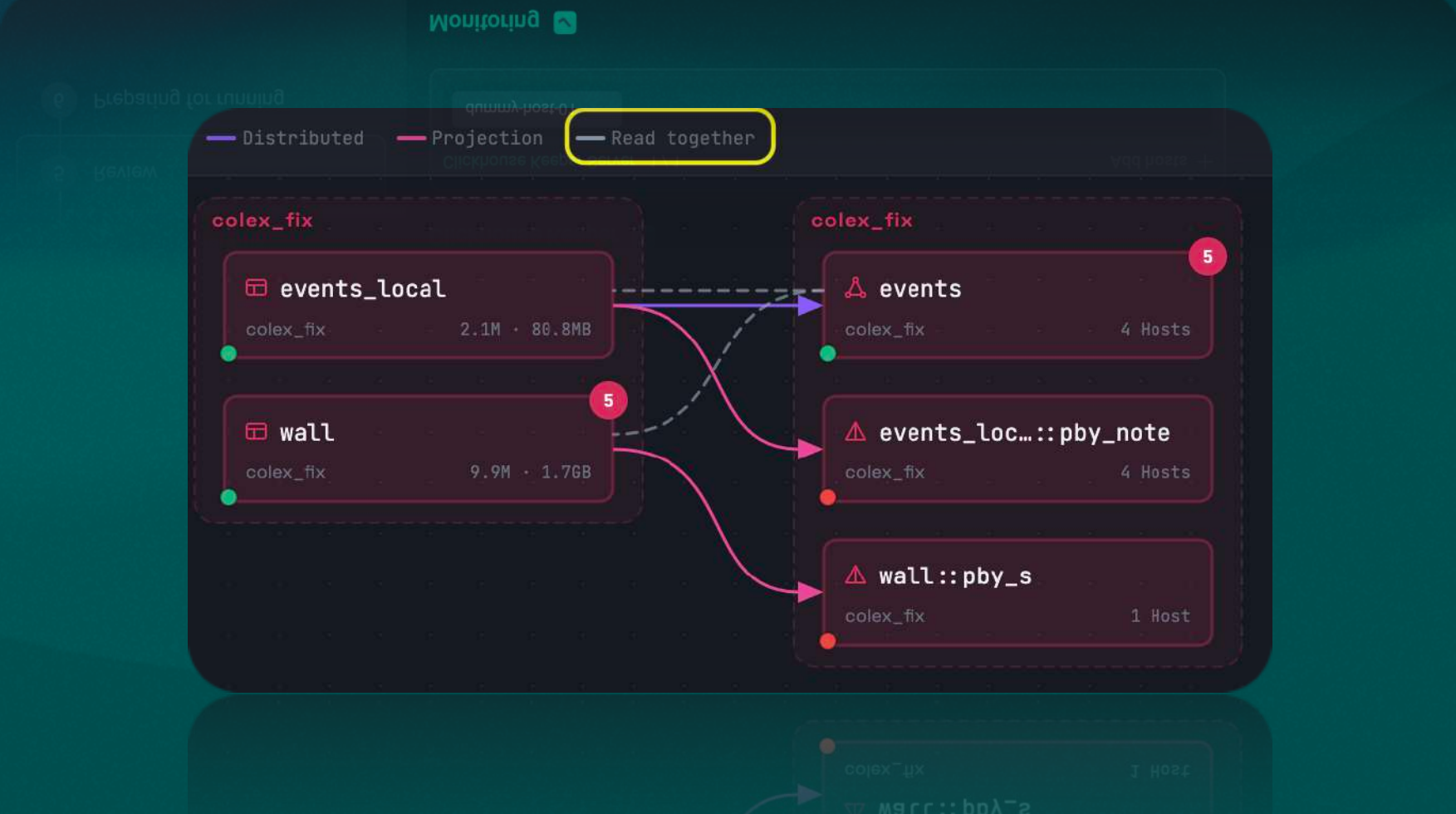
Filter40 ms · 14%passes 0%

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FINDINGS · 1

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Show stepHow to fix



Оптимизации бандла
Dependency expansion
Query Plan
VM Monitoring
Codecs suggesting

boards: Ingest · Query · Replication · Parts · Hosts

Cluster scorecard

Cluster health

Min server uptime

Cluster query rate

Query error rate

Worst disk free

CRITICAL

4.59 hour

1.27 req/s

1.00 ops/s

0.2%

Subsystems (click to drill)

ClickHouse

Coordination

Proxy

Hosts

Monitoring

CH nodes live / expected

UP

UP

UP

UP

UP

100%

Active problems & firing alerts

Active problems (severity-sorted)

Firing / pending alerts

severity	problem	object	value	severity	alert	object	state
CRITICAL	CH disk <10% free	ch2-9363	0.00215	CRITICAL	ADQMCHDiskCritical	ch1-9363	FIRING
CRITICAL	CH disk <10% free	ch1-9363	0.00209	CRITICAL	ADQMCHDiskCritical	ch2-9363	FIRING
CRITICAL	CH disk <10% free	ch2-9363	0.00309	CRITICAL	ADQMCHDiskCritical	ch3-9363	FIRING
CRITICAL	CH disk <10% free	ch3-9363	0.00309	CRITICAL	ADQMCHDiskCritical	ch4-9363	FIRING
CRITICAL	CH disk <10% free	ch4-9363	0.00309	CRITICAL	ADQMCHDiskCritical	ch5-9363	FIRING

ADQM & ADQM Control: функциональнее, удобнее, умнее

Next releases

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Manage mapping ✓

3.1 Edit host-component mapping

Discard changes Next step

dummy-host-01

Clickhouse

Hide empty

ADQMDB ✓

Clickhouse JDBC Bridge 1 / 0

Add hosts +

dummy-host-01

Clickhouse Server 3 / 1

Add hosts +

dummy-host-01

Clickhouse Keeper ✓

Clickhouse Keeper Server 1 / 1

Add hosts +

dummy-host-01

Monitoring ✓

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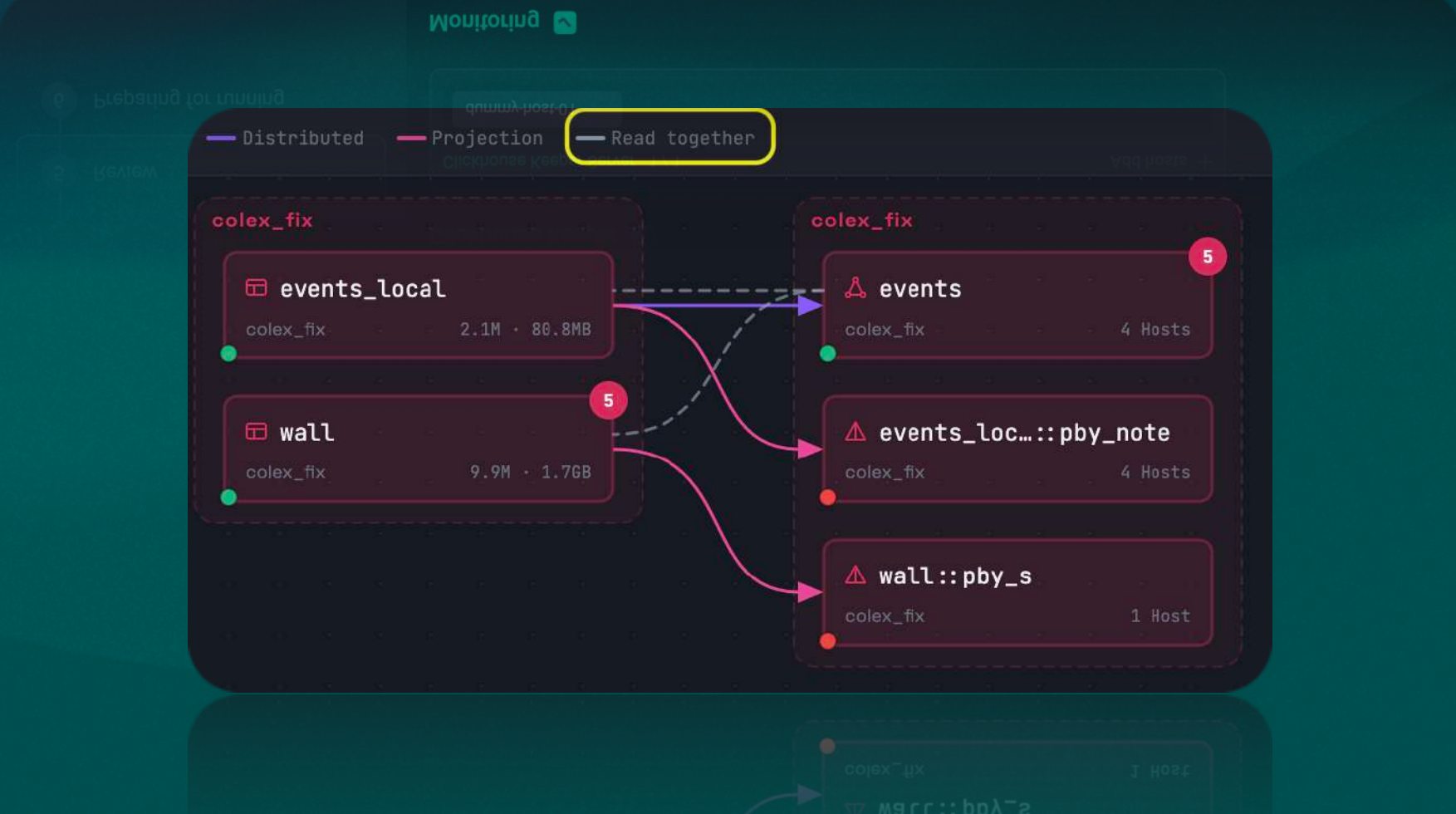
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FINDINGS · 1

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Show step How to fix



Оптимизации бандла
Dependency expansion
Query Plan
VM Monitoring
Codecs suggesting
Queries groups

boards: Ingest · Query · Replication · Parts · Hosts

Cluster scorecard

Cluster health ⚠ Min server uptime ⌚ Cluster query rate ⬆ Query error rate ⬆ Worst disk free ⬇

CRITICAL

4.59 hour

1.27 req/s

1.00 ops/s

0.2%

Subsystems (click to drill)

ClickHouse ⌕ Coordination ⌕ Proxy ⌕ Hosts ⌕ Monitoring ⌕ CH nodes live / expected ⌕

UP

UP

UP

UP

UP

100%

Active problems & firing alerts

Active problems (severity-sorted) ⌕ ⚠

severity

problem

object

value

severity

alert

object

state

CRITICAL

CH disk <10% free

ch2-9363

0.00215

CRITICAL

ADQMCHDiskCritical

ch1-9363

FIRING

CRITICAL

CH disk <10% free

ch1-9363

0.00209

CRITICAL

ADQMCHDiskCritical

ch2-9363

FIRING

CRITICAL

CH disk <10% free

ch2-9363

0.00309

CRITICAL

ADQMCHDiskCritical

ch3-9363

FIRING

CRITICAL

CH disk <10% free

ch3-9363

0.00309

CRITICAL

ADQMCHDiskCritical

ch4-9363

FIRING

CRITICAL

CH disk <10% free

ch4-9363

0.00309

CRITICAL

ADQMCHDiskCritical

ch5-9363

FIRING

CRITICAL

CH disk <10% free

ch5-9363

0.00309

CRITICAL

ADQMCHDiskCritical

ch6-9363

FIRING

Firing / pending alerts ⌕

severity

alert

object

state

CRITICAL

ADQMCHDiskCritical

ch1-9363

FIRING

CRITICAL

ADQMCHDiskCritical

ch2-9363

FIRING

CRITICAL

ADQMCHDiskCritical

ch3-9363

FIRING

CRITICAL

ADQMCHDiskCritical

ch4-9363

FIRING

CRITICAL

ADQMCHDiskCritical

ch5-9363

FIRING

CRITICAL

ADQMCHDiskCritical

ch6-9363

FIRING

ADQM & ADQM Control: функциональнее, удобнее, умнее

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dummy-host-01Clickhouse

Hide empty

ADQMDB

Clickhouse JDBC Bridge 1 / 0

dummy-host-01

Add hosts +

Clickhouse Server 3 / 1

dummy-host-01

Add hosts +

Clickhouse Keeper

Clickhouse Keeper Server 1 / 1

dummy-host-01

Add hosts +

Monitoring

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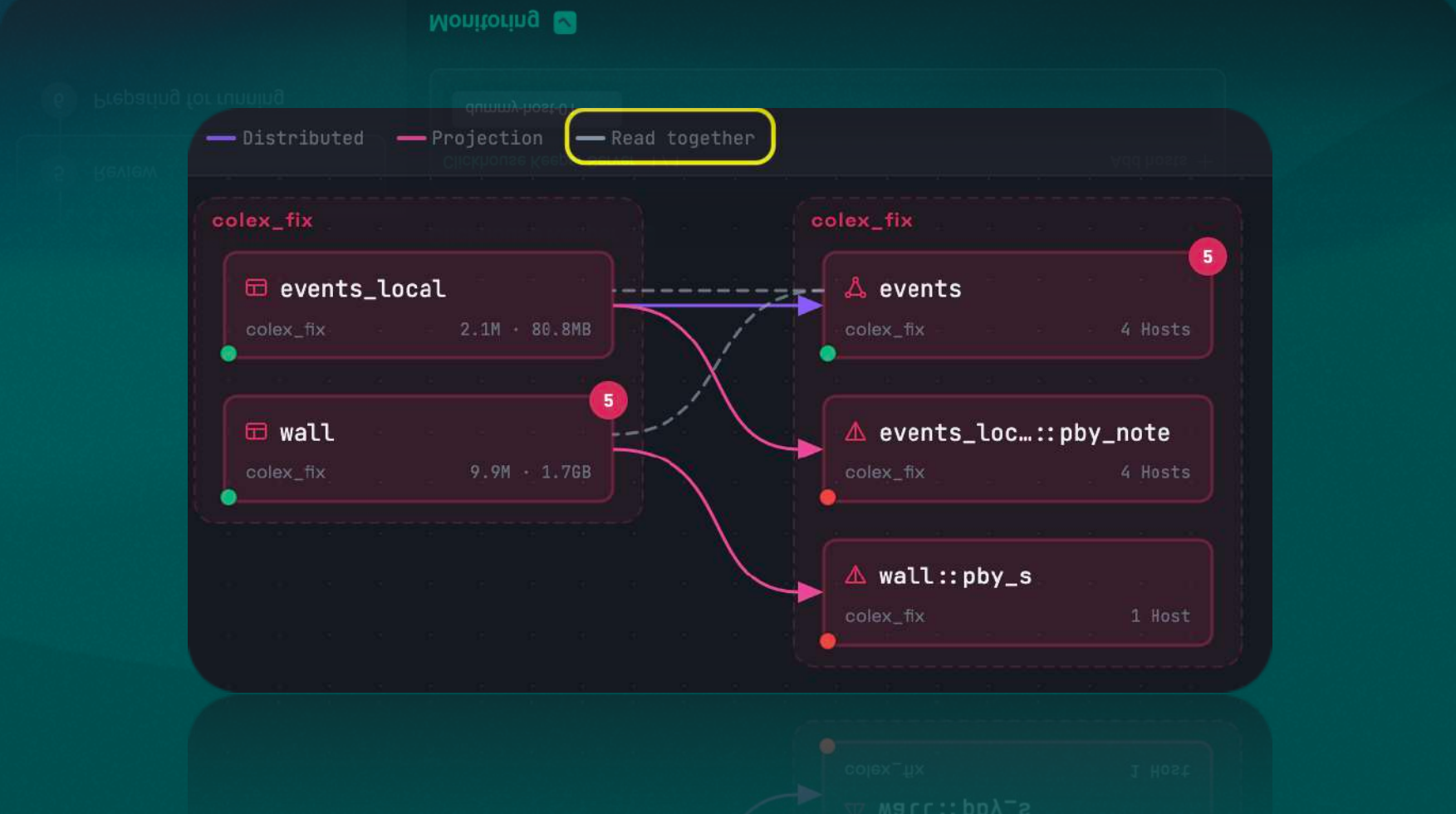
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Show stepHow to fix



boards: Ingest · Query · Replication · Parts · Hosts

Cluster scorecard

Cluster healthCluster query rateQuery error rateWorst disk free

CRITICAL4.59 hour1.27 req/s1.00 ops/s0.2%

Subsystems (click to drill)

ClickHouseCoordinationProxyHostsMonitoringCH nodes live / expected

UPUPUPUPUP100%

Active problems & firing alerts

Active problems (severity-sorted)

severityproblemobjectvalue

CRITICALCH disk <10% freech2-93630.00215

CRITICALCH disk <10% freech1-93630.00209

CRITICALCH disk <10% freech2-93630.00309

CRITICALCH disk <10% freech2-93630.00309

CRITICALCH disk <10% freech2-93630.00309

Firing / pending alerts

severityalertobjectstate

CRITICALADQMCHDiskCriticalch1-9363FIRING

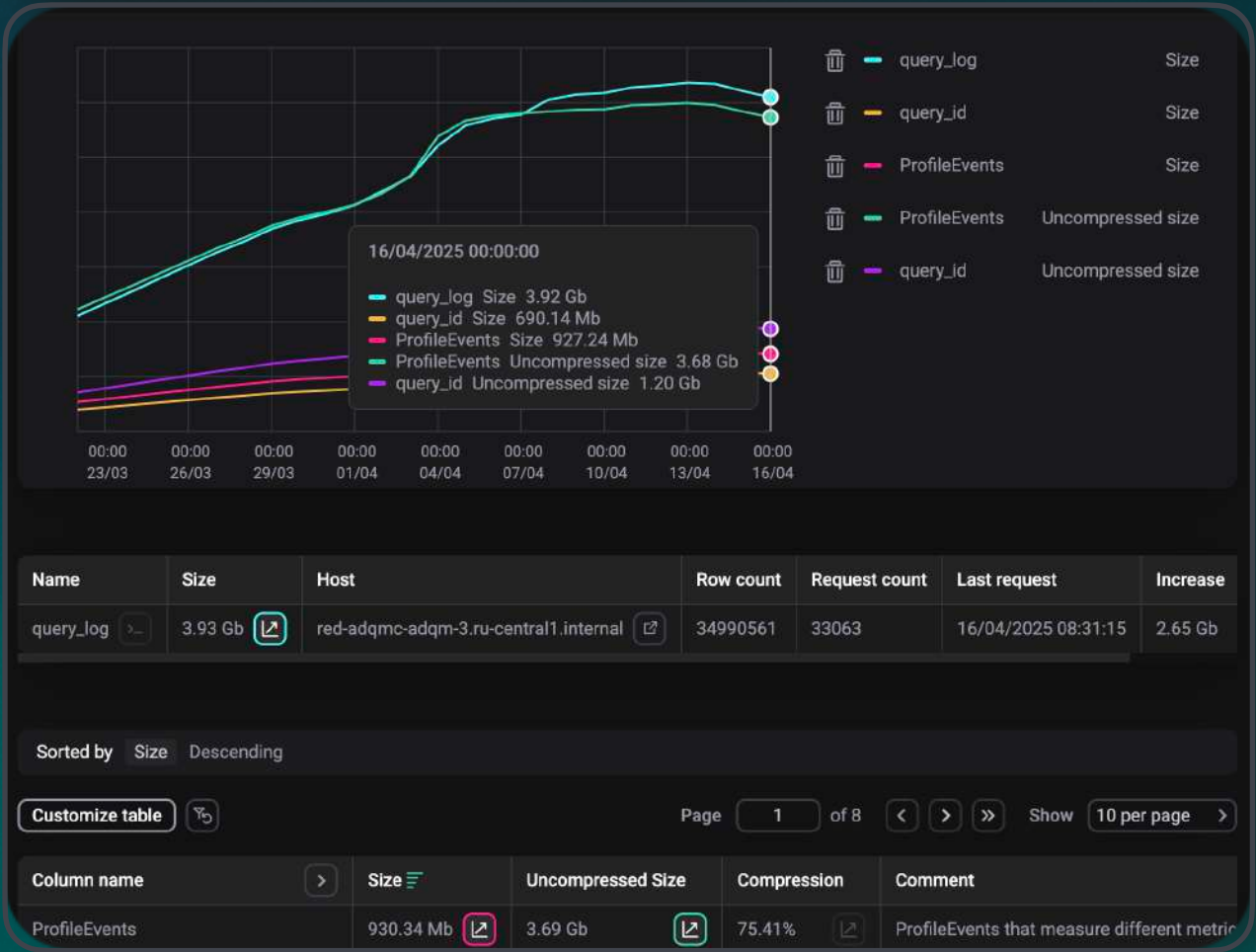
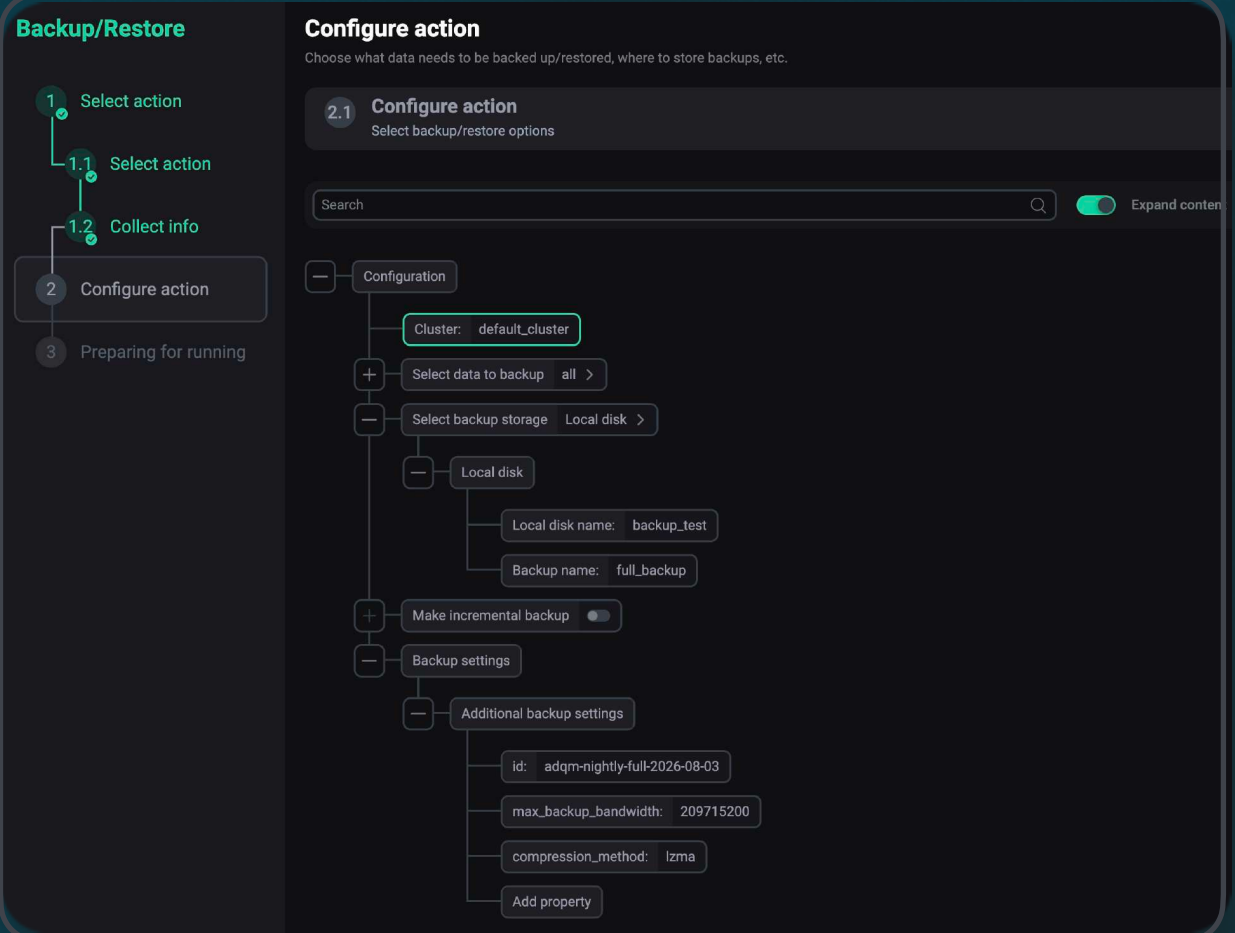
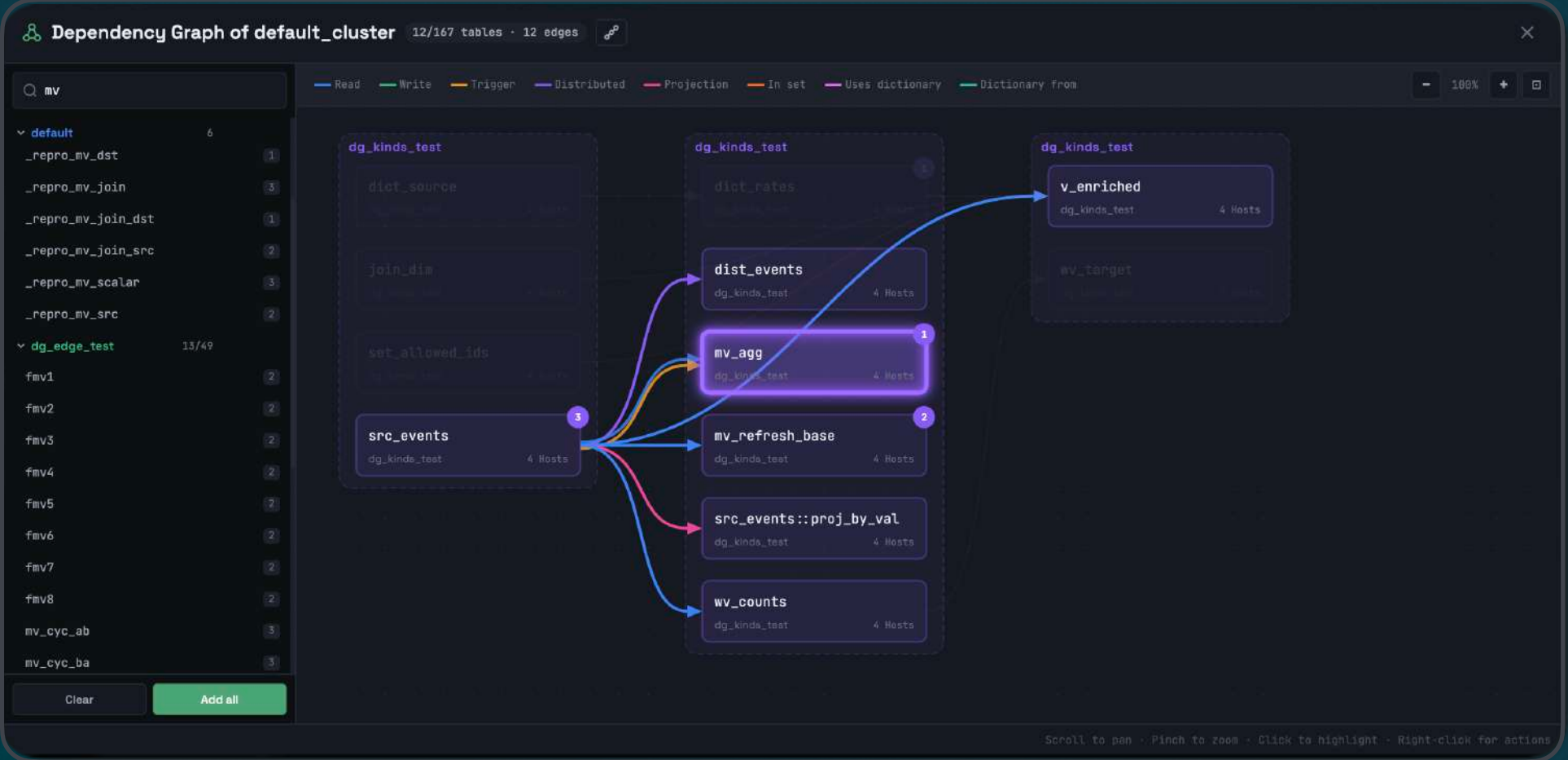
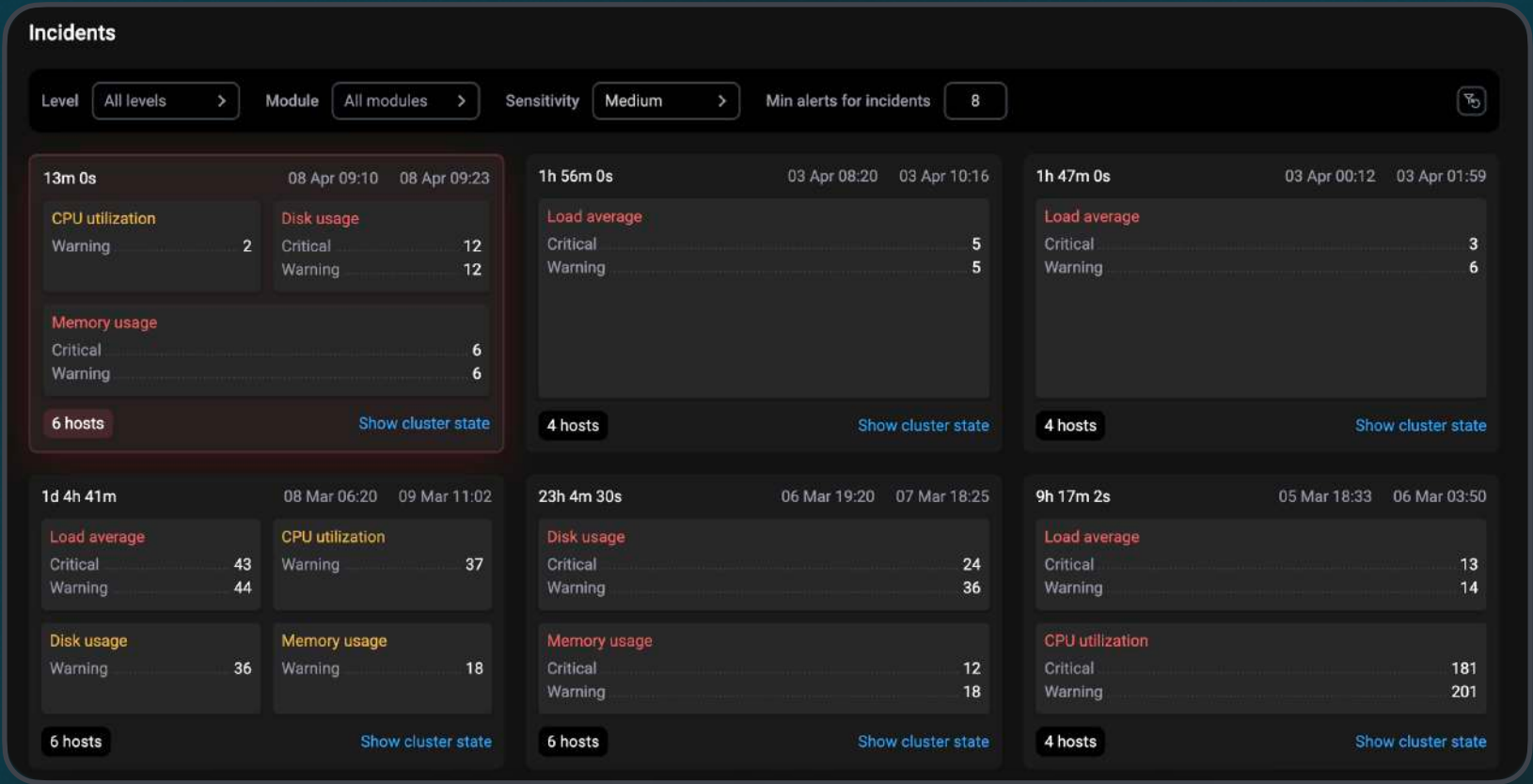
CRITICALADQMCHDiskCriticalch2-9363FIRING

CRITICALADQMCHDiskCriticalch2-9363FIRING

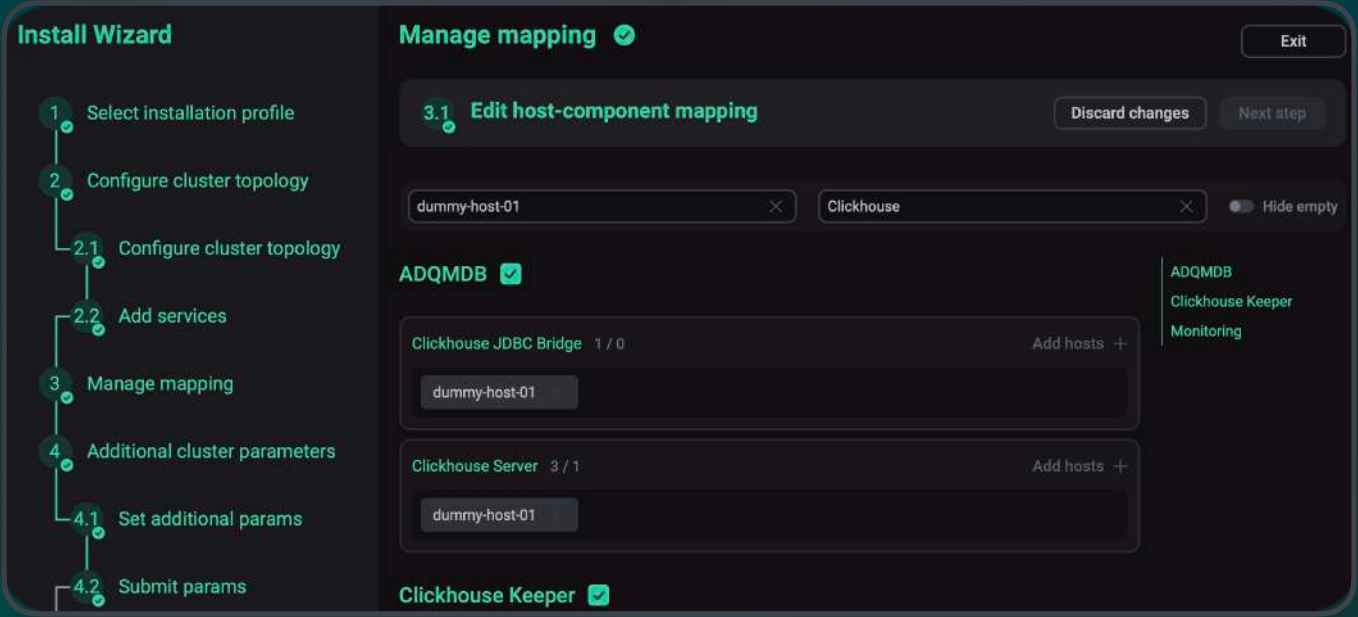
CRITICALADQMCHDiskCriticalch2-9363FIRING

Оптимизации бандла
Dependency expansion
Query Plan
VM Monitoring
Codecs suggesting
Queries groups
And more

Questions & Answers



AD.QM NOTEBOOK



AD.QM

AD.QM CONTROL

