What is new in

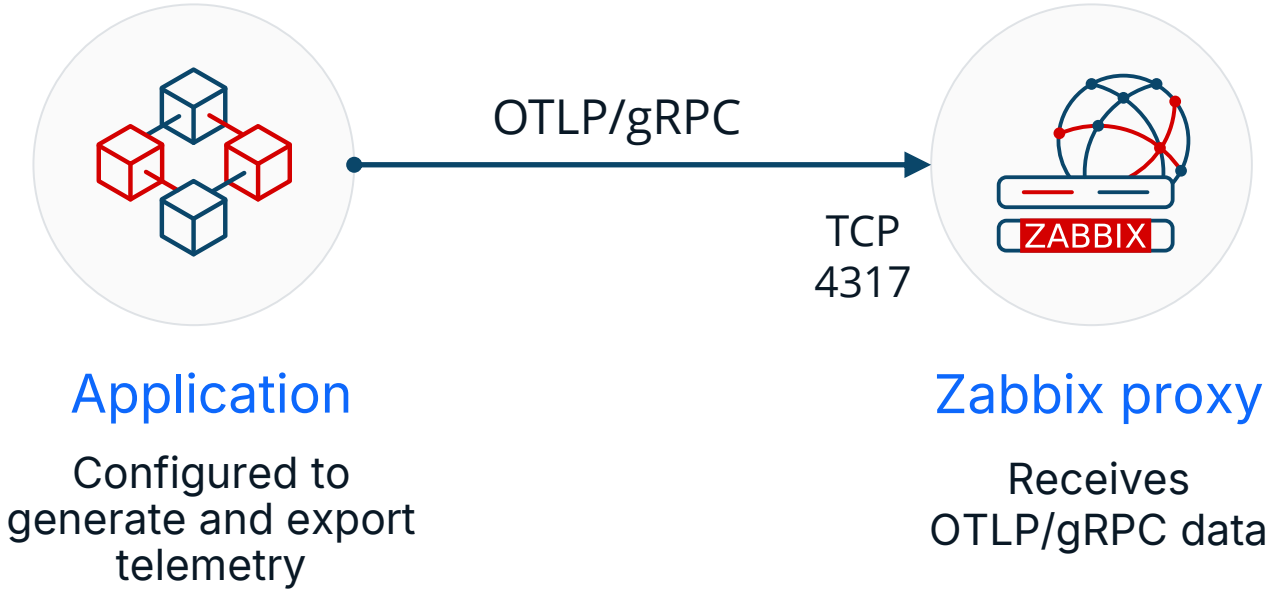
ZABBIX 8.0

Receiving APM data

ZABBIX 8.0

Zabbix proxies support receiving OpenTelemetry data:

- Data is written to ClickHouse history backend by Zabbix proxy
- Zabbix supports OpenTelemtry Protocol (OTLP)
- OTLP data is carried between application and Zabibx proxy using gRPC



OpenTelemetry signal types

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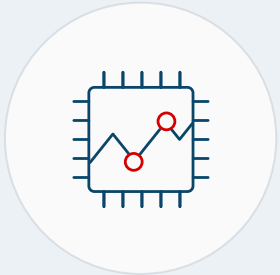


Metrics

Measurements collected over time

Checkout activity over time

```
Requests in last minute: 1200
Failed requests: 24
Active requests: 18
```



Traces

Operations along an application request path

One checkout request

```
Checkout: 320 ms
Includes payment call: 210 ms
Includes DB query: 45 ms
```



Logs

Events and their context

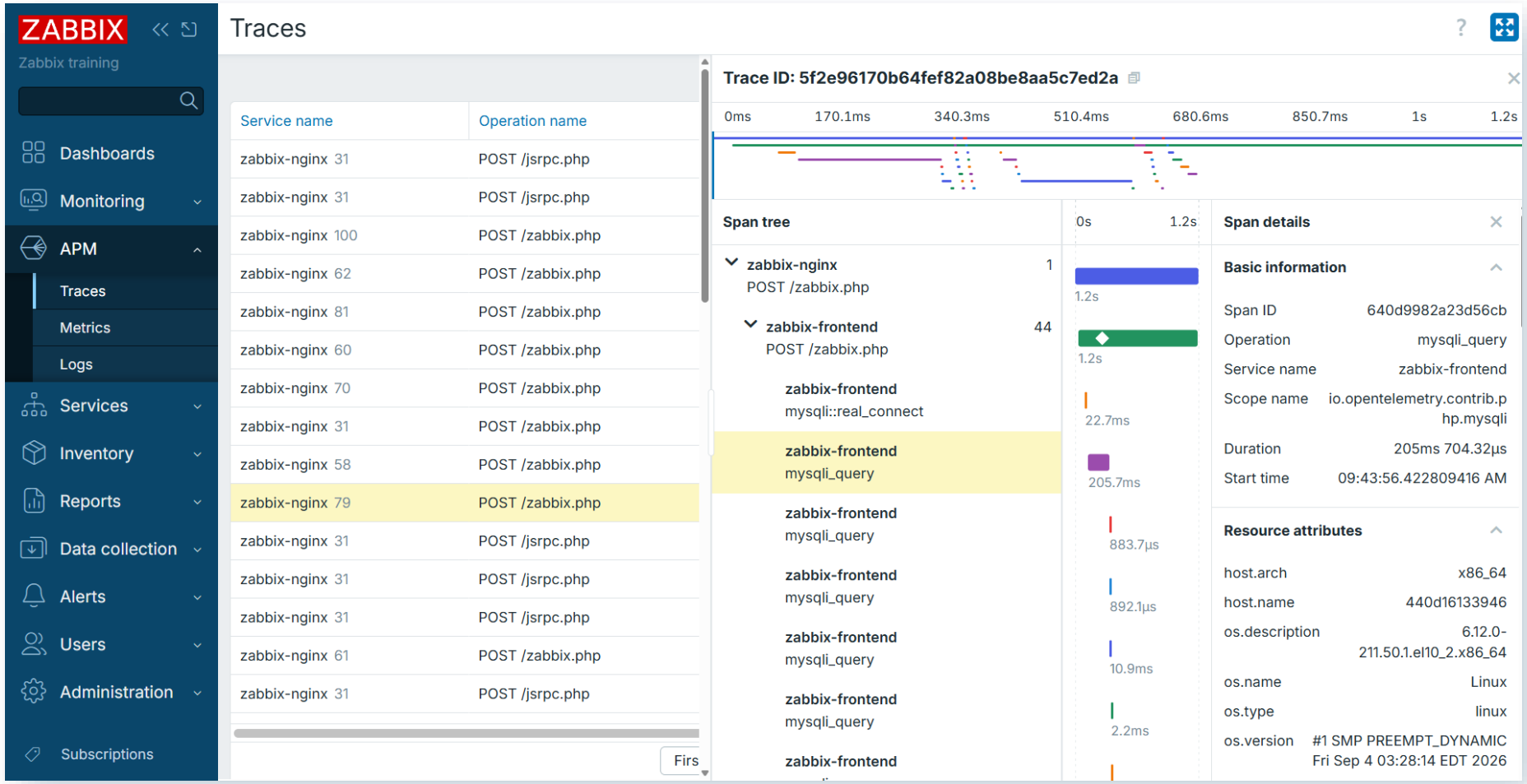
One recorded event

```
14:32:08 ERROR
Payment service timed out
service.name=checkout
```

Viewing and filtering APM data

ZABBIX 8.0

APM data can be viewed and filtered in the new APM frontend section

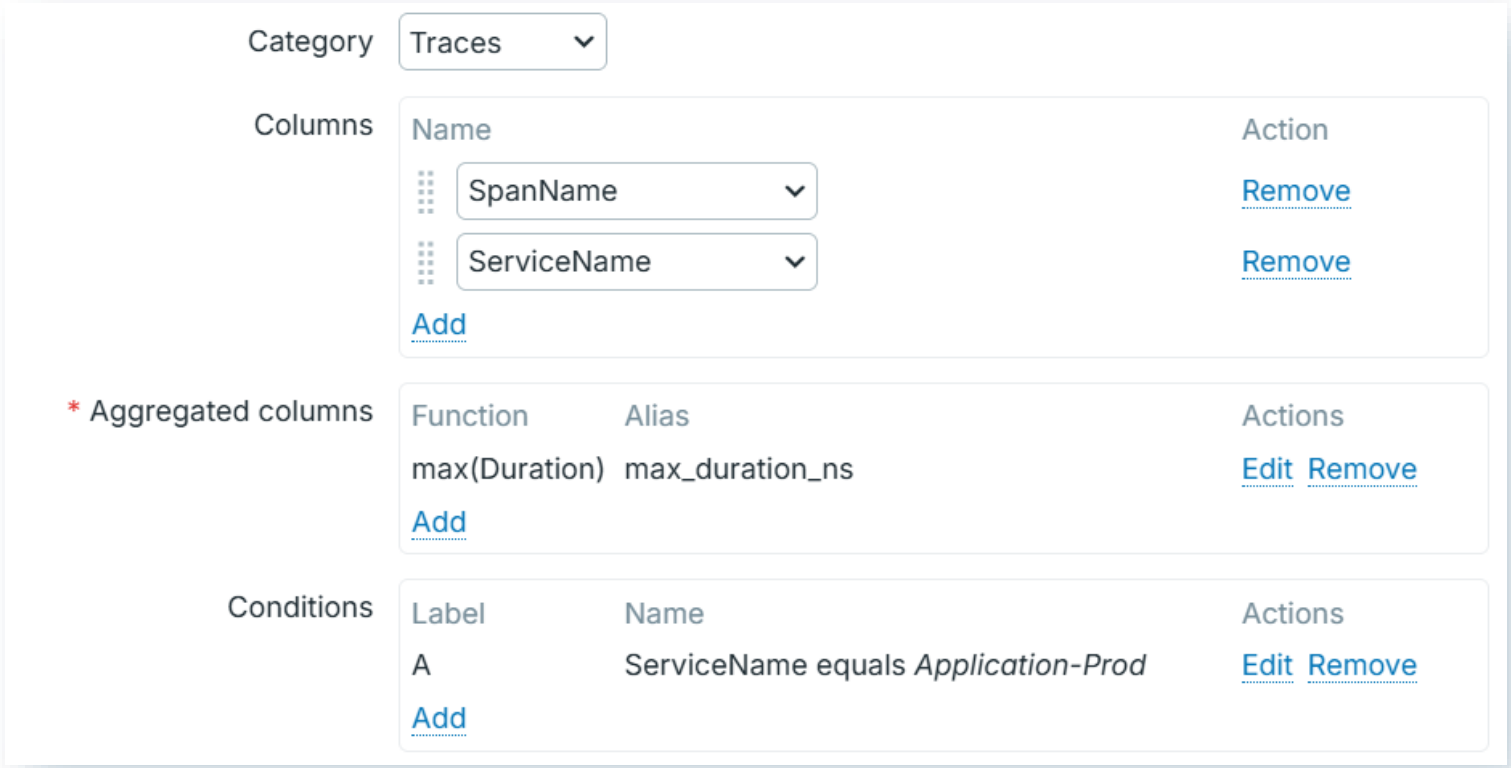


New Telemetry query item

ZABBIX 8.0

The item can filter, collect and aggregate OTEL traces, metrics and logs:

- Group results based on selected columns
- Aggregate data in aggregated columns
- Use conditions to filter matching records



New ClickHouse history backend

ZABBIX 8.0

ClickHouse can be used as a Zabbix history backend:

- Used for historical data storage
- Can be configured to store only specific data types

```
$HISTORY_PROVIDERS[] = [
  'types' => ['str','log','text','json'],
  'provider' => 'elasticsearch',
  'url' => 'http://localhost:9200'
];
```

```
HistoryProvider=clickhouse;value_types="uint,dbl,str,log,text,json",url=http://localh
ost:8123,db=zabbix,username=zabbix,password=zabbix
```

Benefits of using ClickHouse

ZABBIX 8.0

There are many benefits to using ClickHouse as a Zabbix history backend:

- Column-based storage enables faster queries
- Horizontal scaling and parallel processing by using sharding
- In synthetic tests proven to support millions of values per second
- ClickHouse is used as OpenTelemetry data storage

Complex event processing rule

ZABBIX 8.0

A rule defines which events matter and what processing they receive.



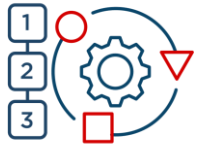
Select events

Name, severity, host context and event tags



Choose a window mode

Individual events or a grouped time window

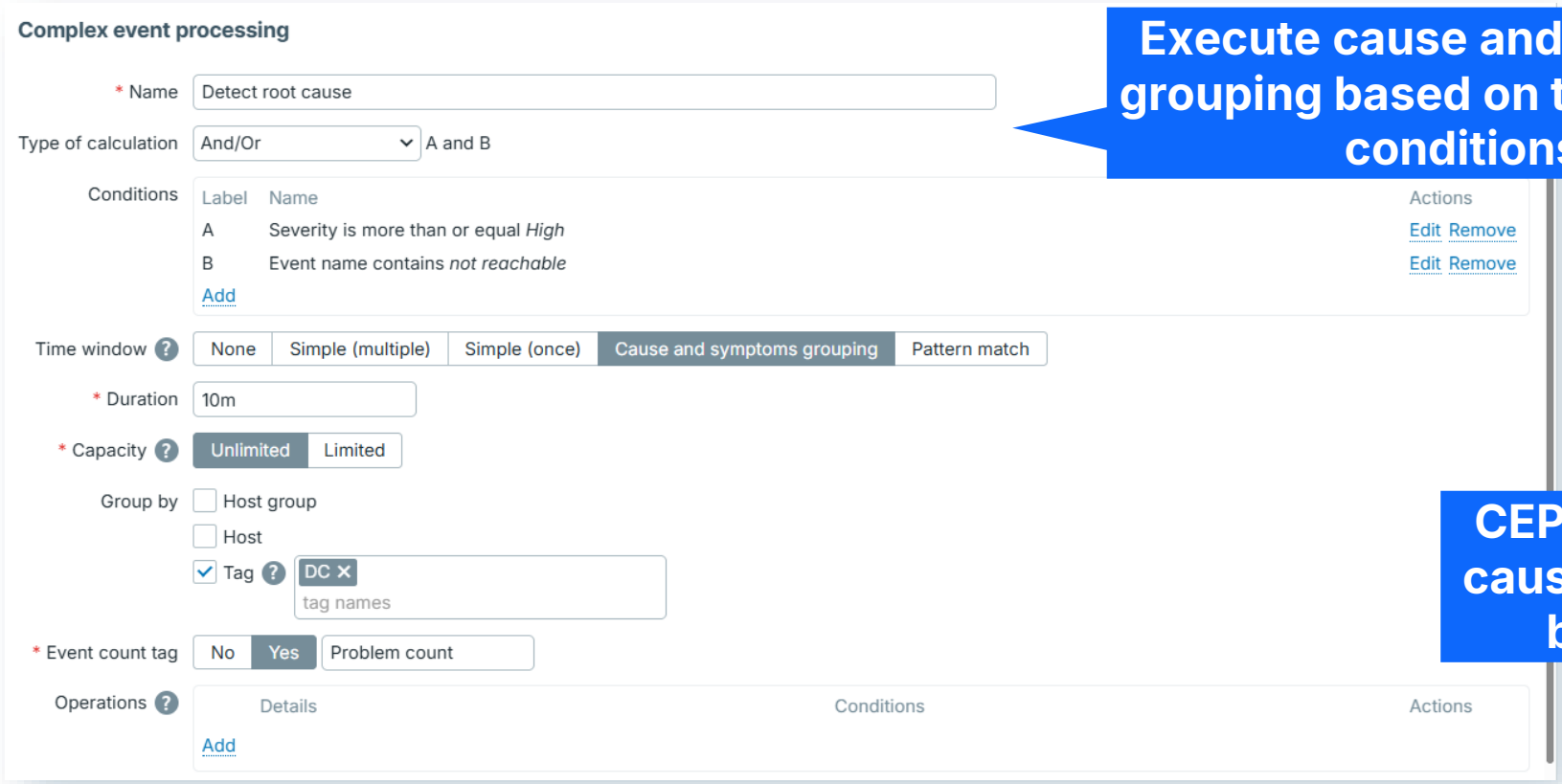


Apply operations

A selected operation at an execution point

Complex even processing

ZABBIX 8.0



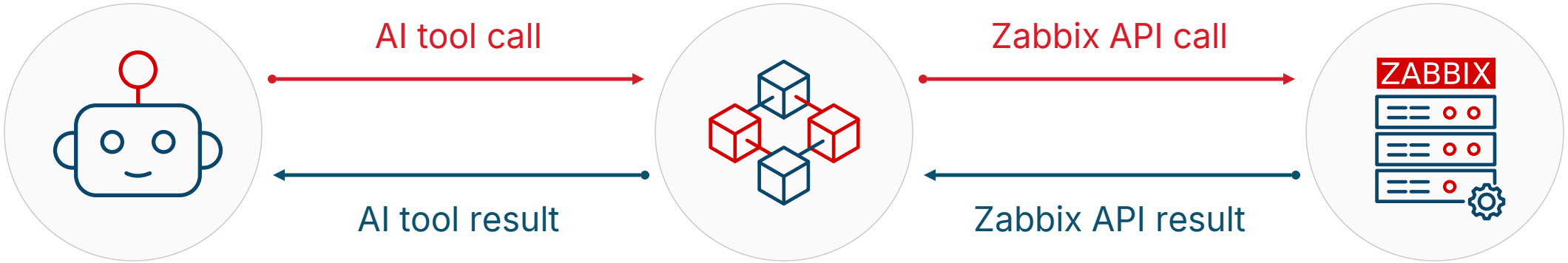
Execute cause and symptom grouping based on the defined conditions

CEP rule performs automatic cause and symptom grouping based on DC tag value

Time	Severity	Recovery time	Status	Info	Host	Problem	Duration	Update	Actions	Tags
2 03:50:55 PM	Disaster		PROBLEM		Core router	Router is not reachable	16s	Update	2	DC: Los Angeles, Problem count: 2
03:51:08 PM	High		PROBLEM		Linux server	Host is not reachable	3s	Update	1	DC: Los Angeles
03:51:02 PM	High		PROBLEM		Database host primary	Host is not reachable	9s	Update	1	DC: Los Angeles

Connect AI agent to Zabbix

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MCP client

AI assistant or IDE

Zabbix MCP server

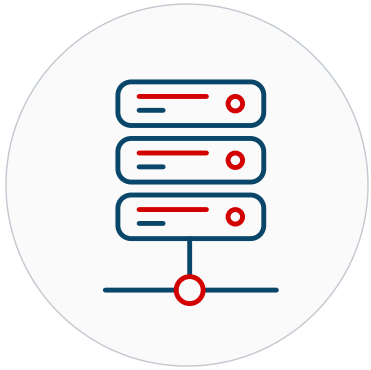
Stateless adapter

Zabbix API

Frontend API endpoint

Tools for selected operations

ZABBIX 8.0



Read configuration

Hosts, templates, items
and related configuration

host_get item_get



Read monitoring data

Problems, maintenance
and stored item history

problem_get history_get



Apply changes

Update problems
and manage maintenance

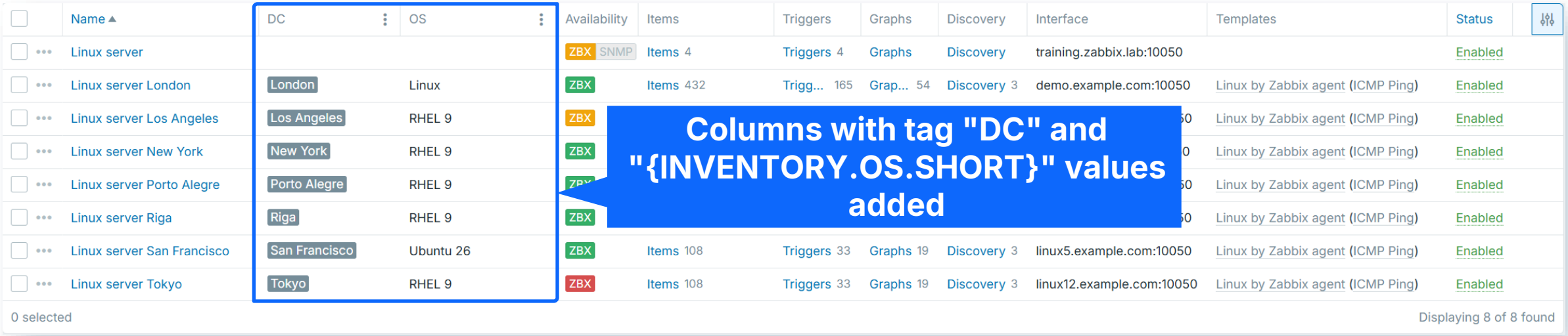
Problem / maintenance writes

Configurable table fields

ZABBIX 8.0

Table fields in Monitoring and Data collection sections can now be customized in various ways:

- Columns can be resized and reordered
- Existing columns can be hidden
- Columns for individual tag values can be added
- Custom data columns can be added

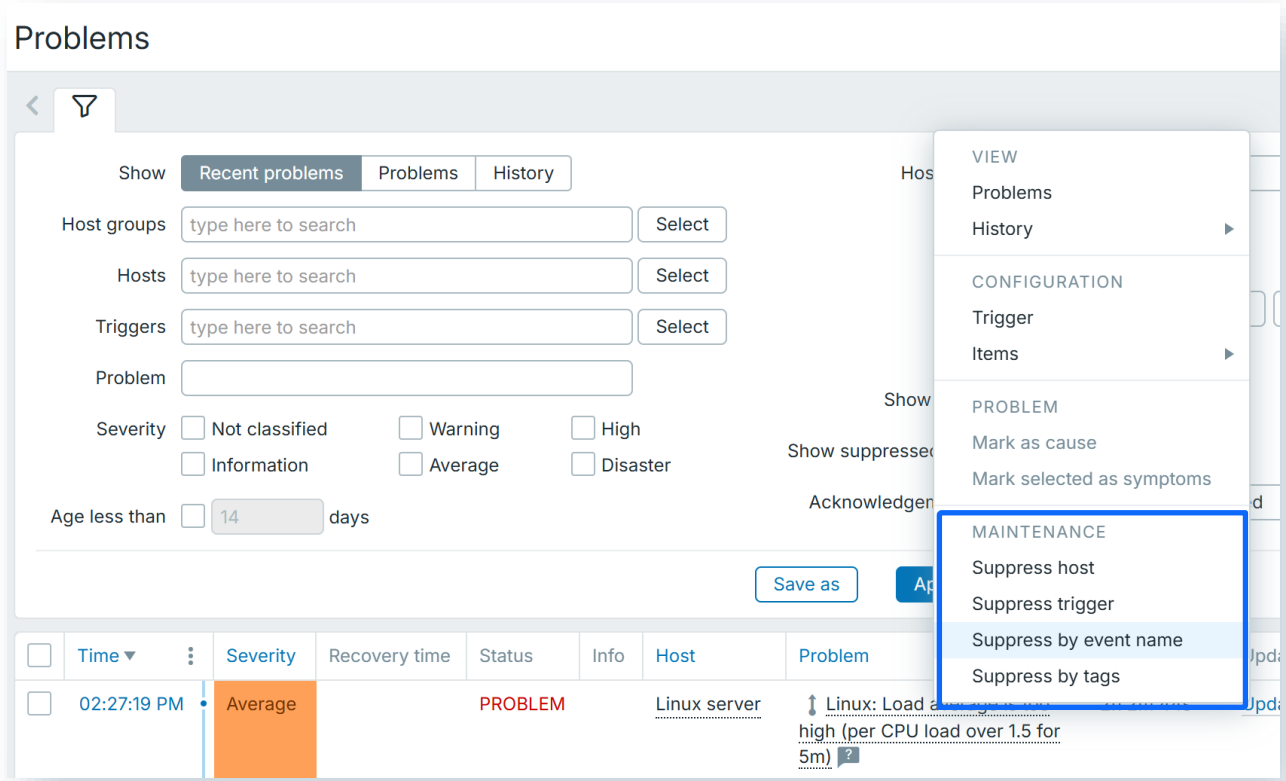


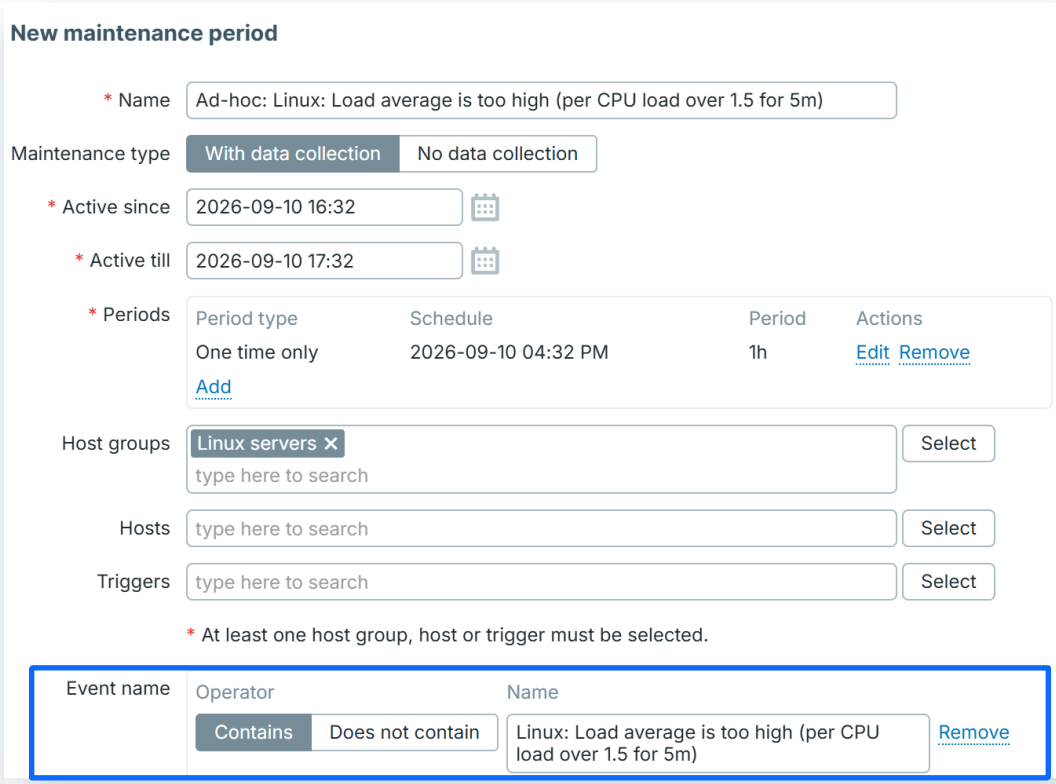
Ad-hoc maintenance

ZABBIX 8.0

An ad-hoc maintenance can be created from the problem context menu:

- Suppress by current host, trigger, event name or tags
- This opens a pre-populated maintenance configuration window



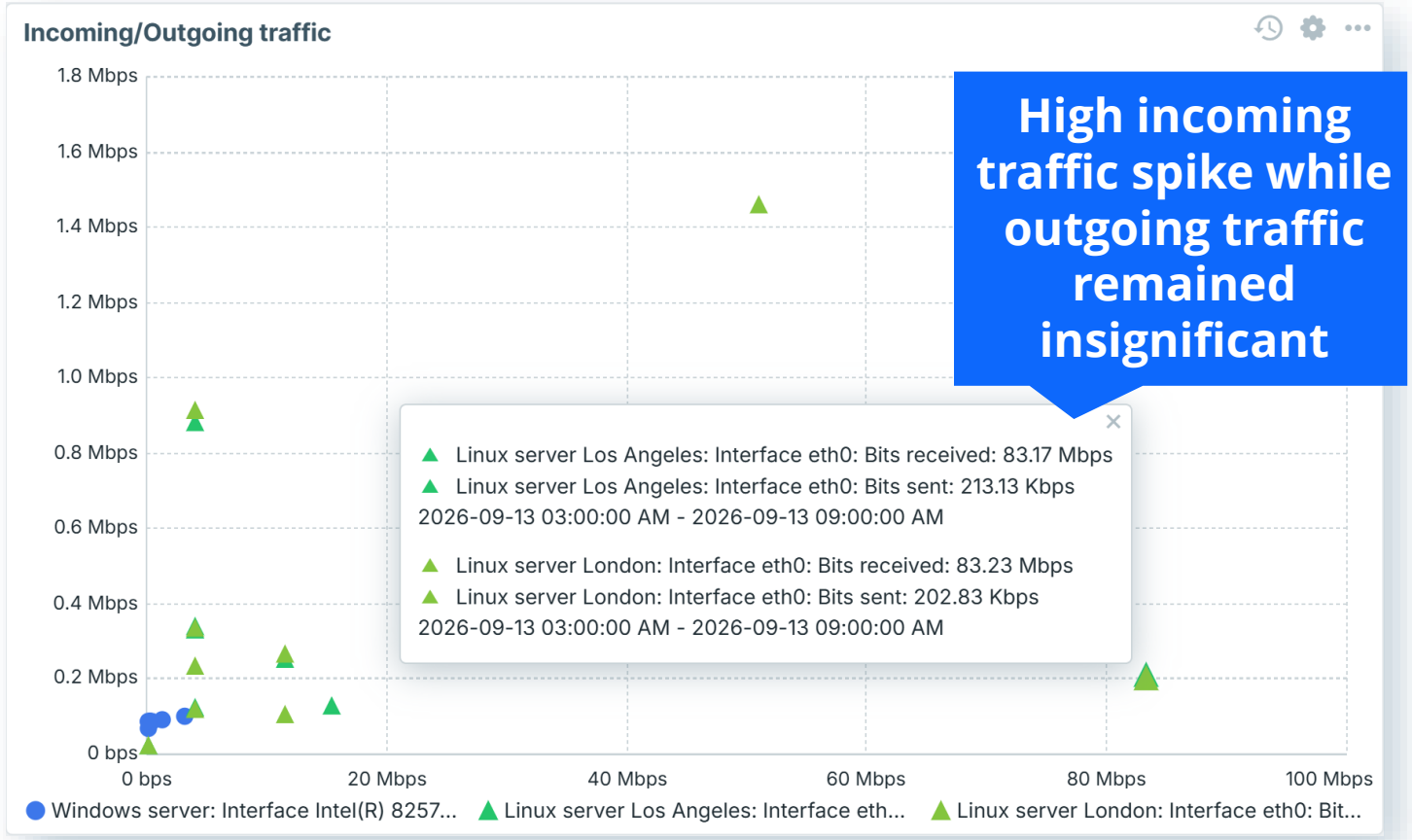


Scatter plot widget

ZABBIX 8.0

Scatter plot widget displays relationship between two metrics:

- Select one or more metrics for X and Y axis
- Select aggregation interval and function
- Define thresholds and use color interpolation

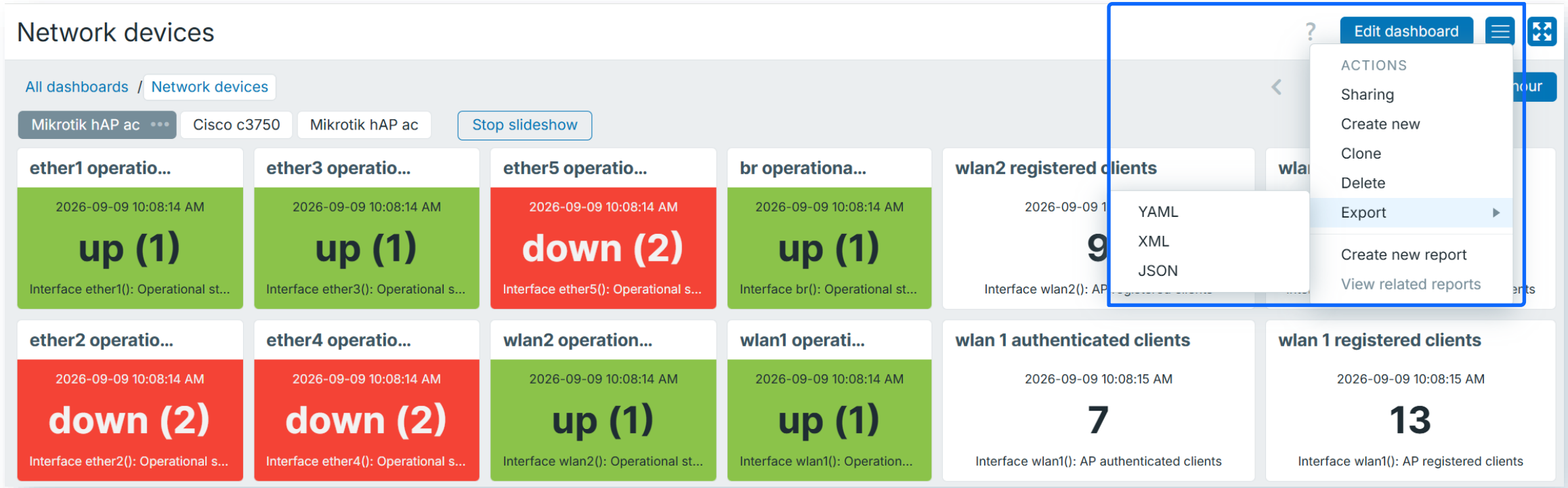


Dashboard import/export

ZABBIX 8.0

Zabbix 8.0 introduces dashboard import/export feature:

- Dashboards can be exported in YAML, XML, JSON
- Dashboards can be imported on the same or another Zabbix instance

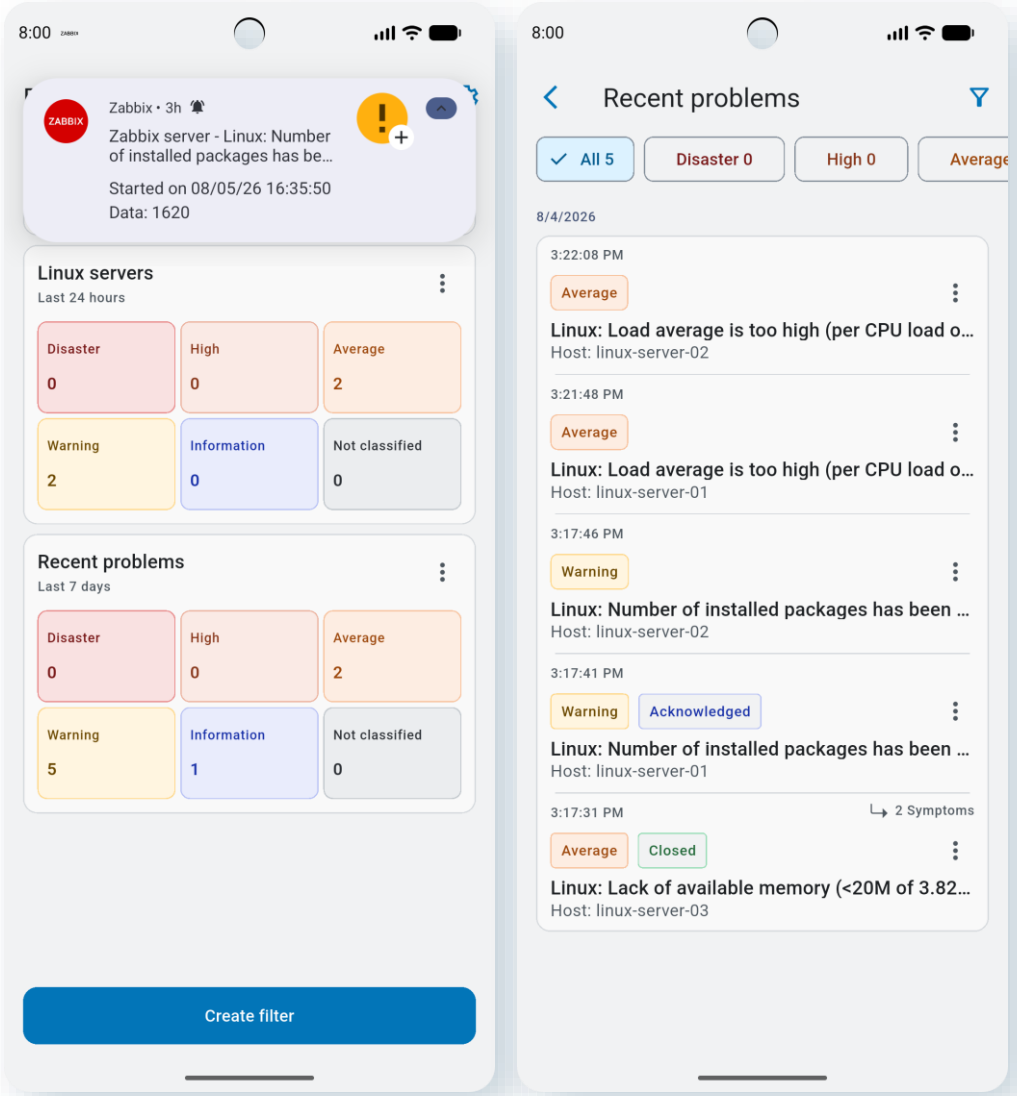


Zabbix mobile application

ZABBIX 8.0

With Zabbix mobile app Zabbix users can:

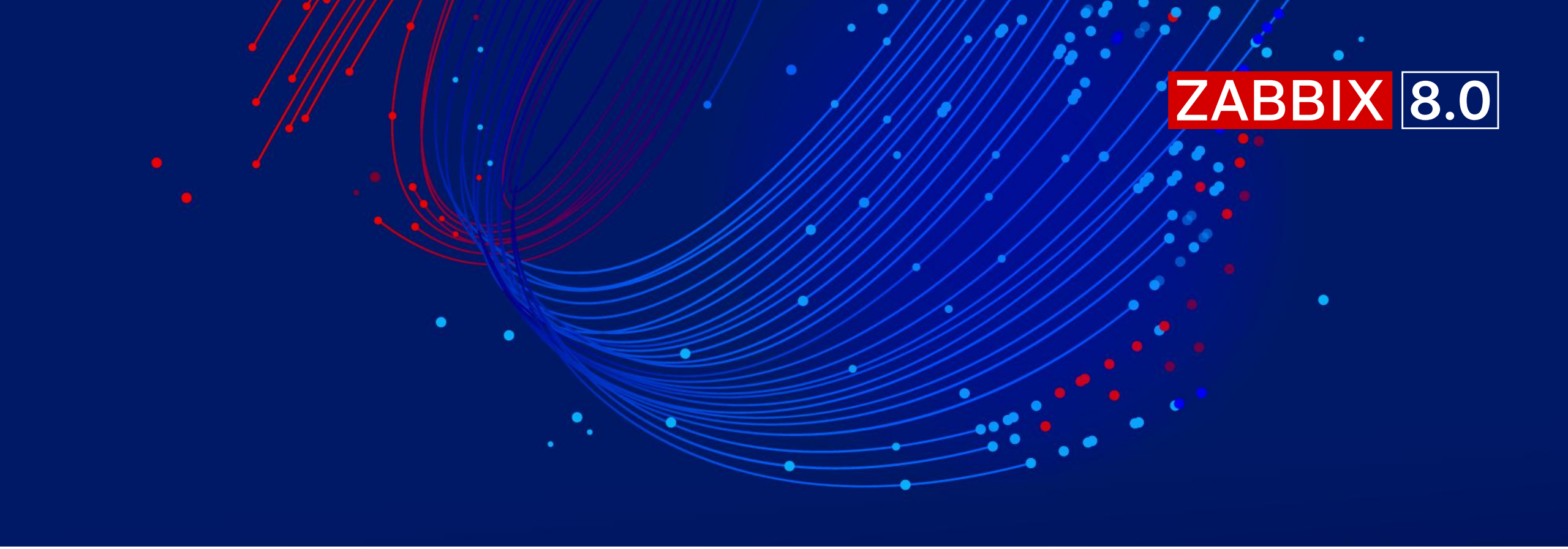
- Filter for and view problem lists
- Check problem details
- Receive push notifications
- Acknowledge problems
- Suppress problems



Other features and improvements

ZABBIX 8.0

- Reduced SNMPv3 network traffic by implementing EngineID caching
- Added the ability to specify multiple PostgreSQL DB backend nodes
- Introduced new JSON data type
- New AllowKeyRegexp and DenyKeyRegexp parameters in Zabbix agent and Zabbix agent 2 configuration
- Added a new net.if.get item for bulk network interface data collection
- Empty trapper item Allowed hosts field value now rejects all connections



Thank you