ДЗ-07: ELK-beats

Установка

https://www.elastic.co/guide/en/beats/heartbeat/current/heartbeat-installation-configuration.html
https://www.elastic.co/guide/en/beats/filebeat/current/filebeat-installation-configuration.html
https://www.elastic.co/guide/en/beats/metricbeat/current/metricbeat-installation-configuration.html

Конфиги

/etc/heartbeat/heartbeat.yml

```
heartbeat.monitors:
- type: http
  enabled: true
  id: otus-hw-monitor
  name: Otus HW Monitor
  urls: ["https://otus.ru", "https://google.com"]
  schedule: '@every 10s'


output.elasticsearch:
  hosts: ["localhost:9200"]
  preset: balanced
  protocol: "https"
  username: "elastic"
  password: "10DM27XoI52iiDxXZa78"
  ssl.verification_mode: none
```

/etc/metricbeat/metricbeat.yml

```
output.elasticsearch:
  hosts: ["localhost:9200"]
  preset: balanced
  protocol: "https"
  username: "elastic"
  password: "10DM27XoI52iiDxXZa78"
  ssl.verification_mode: none
```

Подключаем модуль

```
metricbeat modules enable system
```

/etc/metricbeat/modules.d/system.yml

```
- module: system
  period: 10s
  metricsets:
    - cpu
    - memory
  process.include_top_n:
    by_cpu: 5      # include top 5 processes by CPU
    by_memory: 5   # include top 5 processes by memory
```

/etc/filebeat/metricbeat.yml

```
output.elasticsearch:
  hosts: ["localhost:9200"]
  preset: balanced
  protocol: "https"
  username: "elastic"
  password: "10DM27XoI52iiDxXZa78"
  ssl.verification_mode: none
```

Подключаем модуль

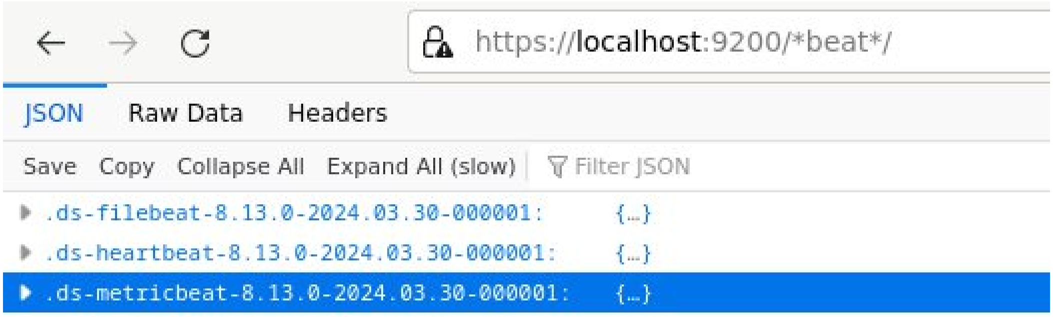
```
filebeat modules enable system
```

/etc/filebeat/modules.d/system.yml

```
- module: system
  syslog:
```

```
  enabled: true
auth:
  enabled: true
```

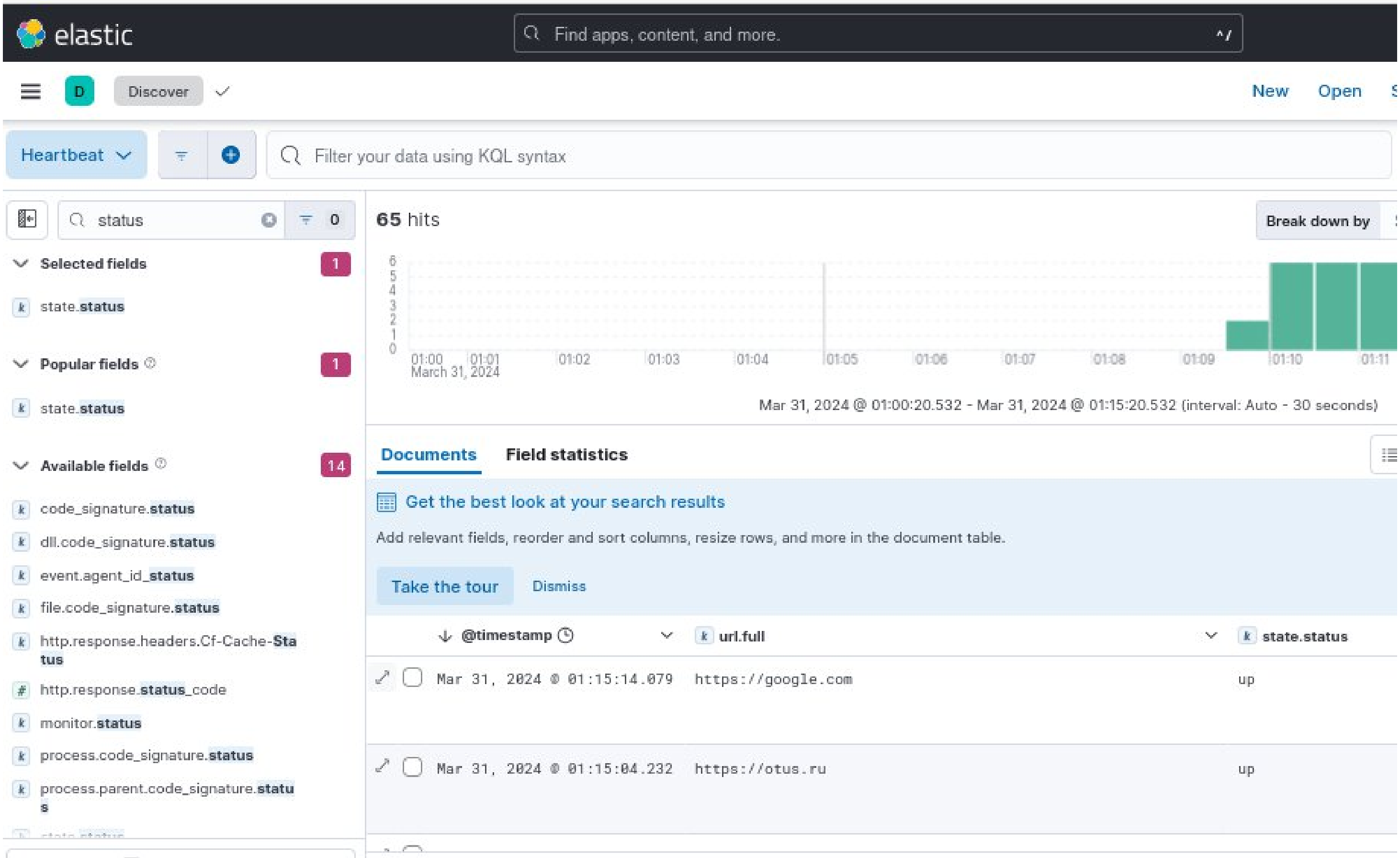
Индексы



https://localhost:9200/*beat*/

```
.ds-filebeat-8.13.0-2024.03.30-000001:      {…}
.ds-heartbeat-8.13.0-2024.03.30-000001:     {…}
.ds-metricbeat-8.13.0-2024.03.30-000001:    {…}
```

Kibana



elastic
Find apps, content, and more.
D
Discover
New
Open
Heartbeat
Filter your data using KQL syntax
status
0
Selected fields
1
state.status
Popular fields
1
state.status
Available fields
14
code_signature.status
dll.code_signature.status
event.agent_id_status
file.code_signature.status
http.response.headers.Cf-Cache-Status
http.response.status_code
monitor.status
process.code_signature.status
process.parent.code_signature.status
65 hits
Break down by
6
5
4
3
2
1
0
01:00
March 31, 2024
01:01
01:02
01:03
01:04
01:05
01:06
01:07
01:08
01:09
01:10
01:11
Documents
Field statistics
Get the best look at your search results
Add relevant fields, reorder and sort columns, resize rows, and more in the document table.
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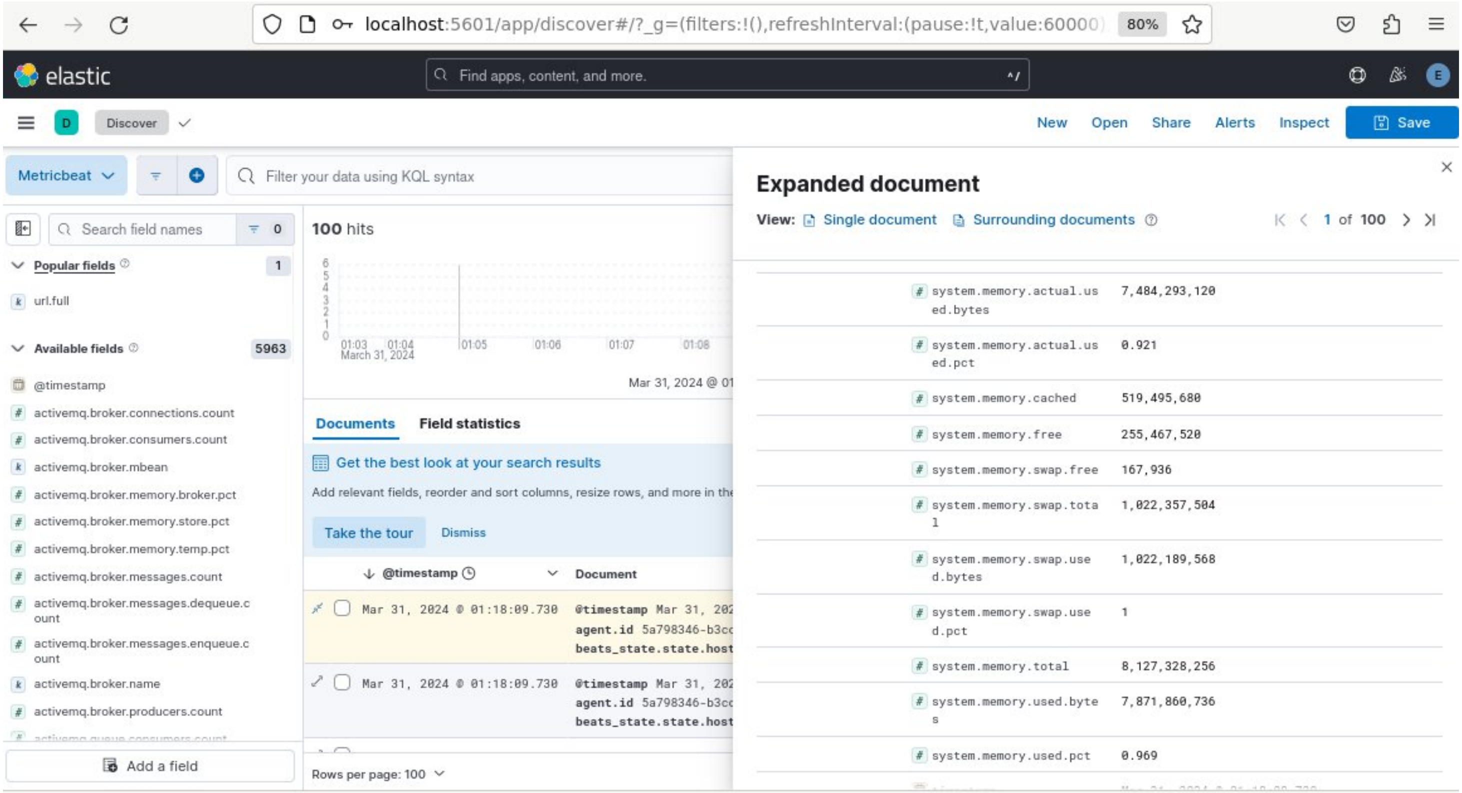
Mar 31, 2024 @ 01:00:20.532 - Mar 31, 2024 @ 01:15:20.532 (interval: Auto - 30 seconds)

@timestamp	url.full	state.status
Mar 31, 2024 @ 01:15:14.079	https://google.com	up
Mar 31, 2024 @ 01:15:04.232	https://otus.ru	up



Popular fields

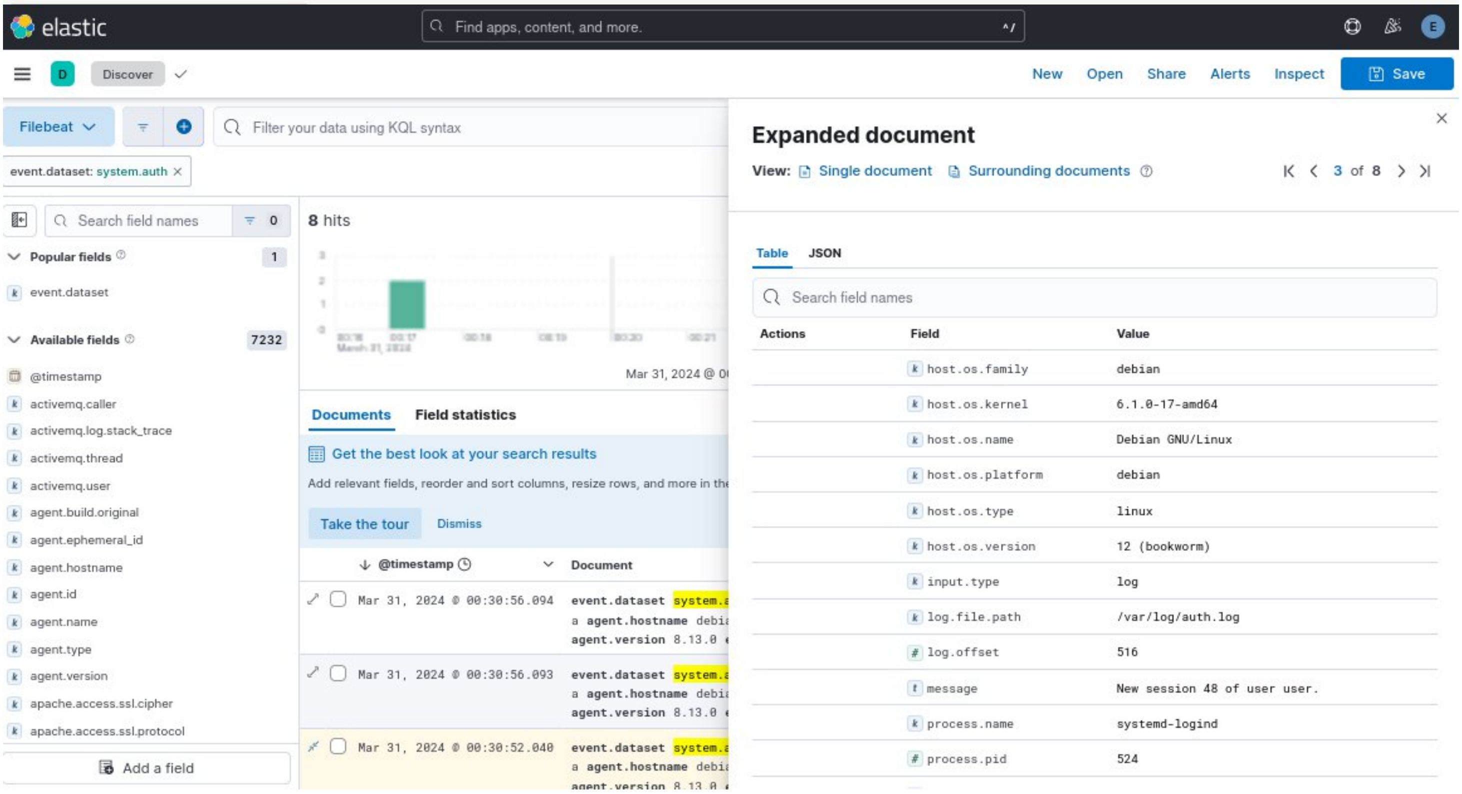
- url.full

Available fields

- @timestamp
- activemq.broker.connections.count
- activemq.broker.consumers.count
- activemq.broker.mbean
- activemq.broker.memory.broker.pct
- activemq.broker.memory.store.pct
- activemq.broker.memory.temp.pct
- activemq.broker.messages.count
- activemq.broker.messages.dequeue.count
- activemq.broker.messages.enqueue.count
- activemq.broker.name
- activemq.broker.producers.count

@timestamp	Document
Mar 31, 2024 @ 01:18:09.730	@timestamp Mar 31, 202 agent.id 5a798346-b3cc beats_state.state.host
Mar 31, 2024 @ 01:18:09.730	@timestamp Mar 31, 202 agent.id 5a798346-b3cc beats_state.state.host

Field	Value
system.memory.actual.used.bytes	7,484,293,120
system.memory.actual.used.pct	0.921
system.memory.cached	519,495,680
system.memory.free	255,467,520
system.memory.swap.free	167,936
system.memory.swap.total	1,022,357,504
system.memory.swap.used.bytes	1,022,189,568
system.memory.swap.used.pct	1
system.memory.total	8,127,328,256
system.memory.used.bytes	7,871,860,736
system.memory.used.pct	0.969



Popular fields

- event.dataset

Available fields

- @timestamp
- activemq.caller
- activemq.log.stack_trace
- activemq.thread
- activemq.user
- agent.build.original
- agent.ephemeral_id
- agent.hostname
- agent.id
- agent.name
- agent.type
- agent.version
- apache.access.ssl.cipher
- apache.access.ssl.protocol

@timestamp	Document
Mar 31, 2024 @ 00:30:56.094	event.dataset system.a a agent.hostname debi agent.version 8.13.0
Mar 31, 2024 @ 00:30:56.093	event.dataset system.a a agent.hostname debi agent.version 8.13.0
Mar 31, 2024 @ 00:30:52.040	event.dataset system.a a agent.hostname debi agent.version 8.13.0

Actions	Field	Value
	host.os.family	debian
	host.os.kernel	6.1.0-17-amd64
	host.os.name	Debian GNU/Linux
	host.os.platform	debian
	host.os.type	linux
	host.os.version	12 (bookworm)
	input.type	log
	log.file.path	/var/log/auth.log
	log.offset	516
	message	New session 48 of user user.
	process.name	systemd-logind
	process.pid	524