



C L O N E R A

www.clonera.net

Levent Karakaş

Real-time Streaming of Zabbix Metrics to Big Data Platforms

Zabbix Summit 2020

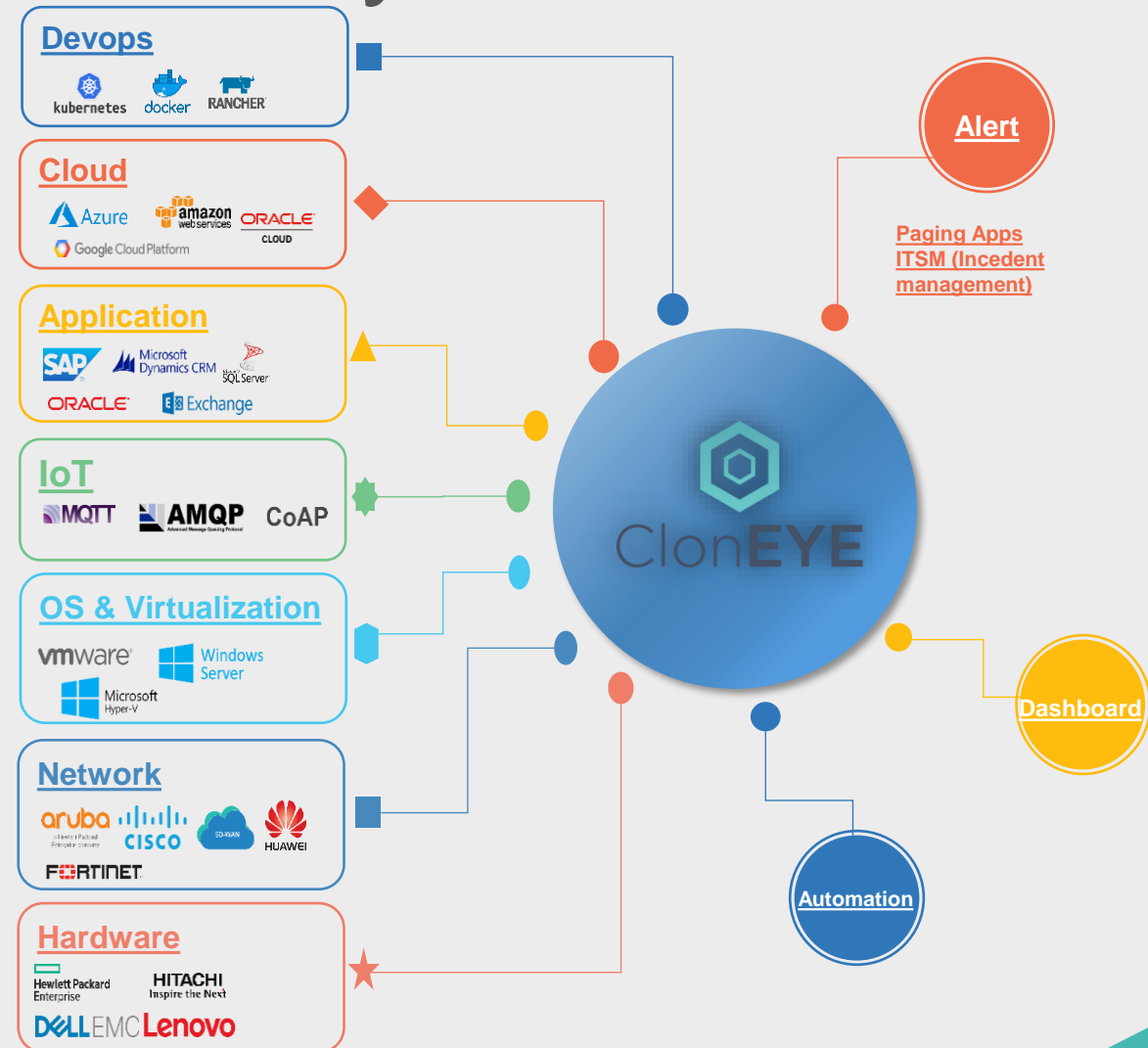
Storing Metrics in RDBMS

- Relational databases are not the ideal solution for storing metrics at scale
- Timescaledb support in Zabbix since version 4.2 is a huge relief (10x performance improvement)
- What if there are terabytes of metric data to manage?

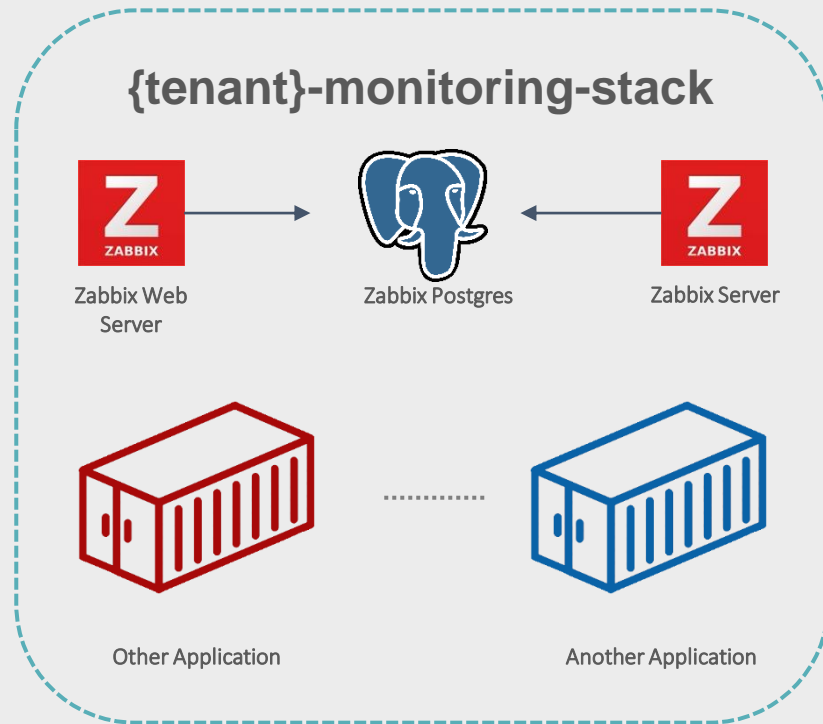
Who needs to manage terabytes of metric data?



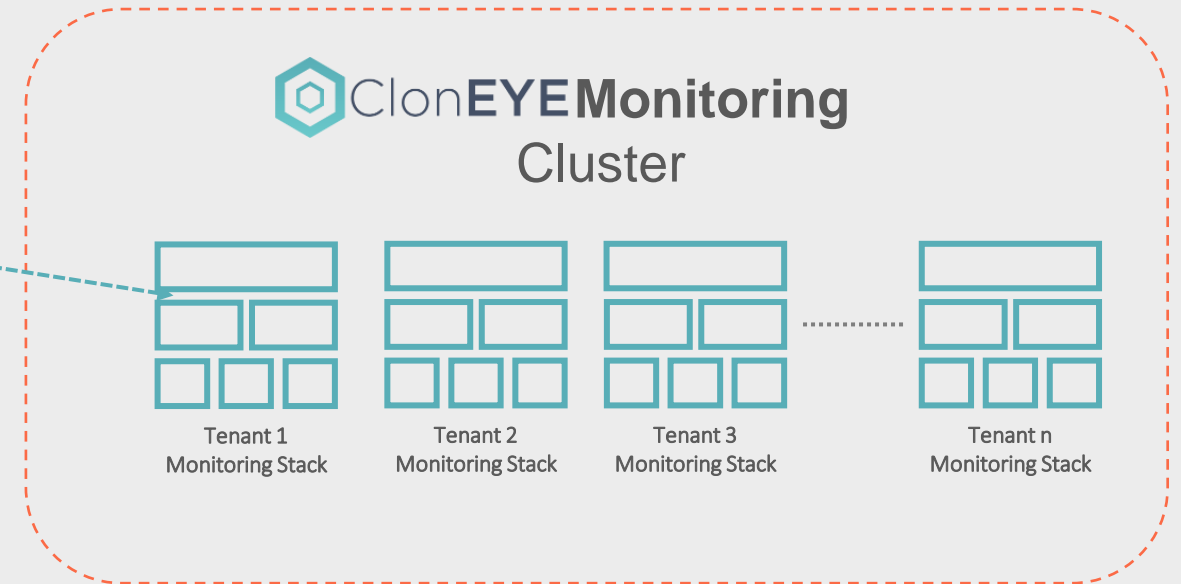
- Best of breed monitoring tools, all integrated
- Zabbix is the main pillar
- Multi tenant
- Single-Sign-On (SSO)
- Everything runs on containers
- CI/CD Orchestration



ClonEYE Platform



Many containers in each stack



One stack for each tenant



- Cost effective
- Large Datasets
- Replication
- Fault Tolerance
- High Availability
- Scalability
- High throughput

How to store lots of metrics?



- Cloud Native
- Stream Native
- Batch Ingestion
- Time optimized partitioning
- Horizontal Scalability
- Flexible Schema
- SQL Support

How to import data?

- Batch Ingestion

- Bulk data import
- Supports many file formats and file sources
- Task based

- Streaming

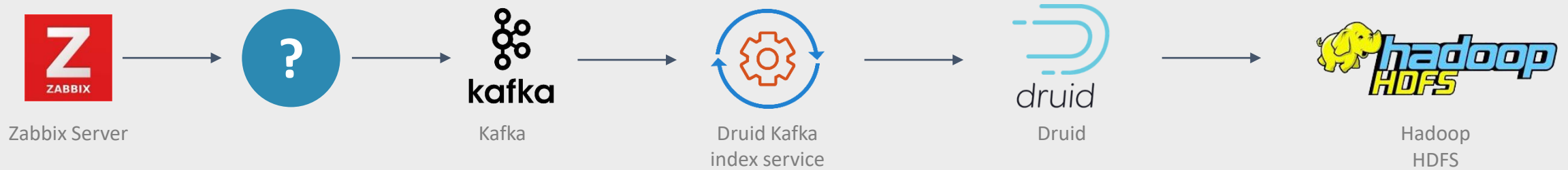
- Real-time
- Druid service ingests directly from streams

Zabbix Real-Time Export

- Zabbix supports exporting to file (which can be batch digested)
- File format is JSON (which is supported by Druid ingestion)
- A new file is created when the file reaches to a size (They should be moved, imported, deleted?)

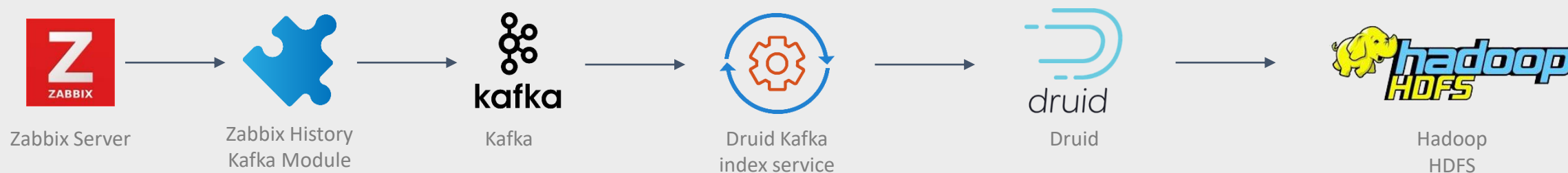
https://www.zabbix.com/documentation/current/manual/appendix/install/real_time_export

Kafka for real-time streaming



- If we can stream zabbix events to kafka, Druid Kafka index service can ingest
- No files to manage!

Zabbix History Kafka Loadable Module



- Found a module in github
- Tested and realized that it is not working
- Tried fixing
- Tried writing a brand new one
- After lots of debugging, realized it is not possible to keep librdkafka state open and reuse for events
- Gave up

Use a REST to kafka middleware



- Kafka REST by Confluent

<https://github.com/confluentinc/kafka-rest>

- Kafka Pixy by Mailgun

<https://github.com/mailgun/kafka-pixy>

Zabbix History Webhook Module

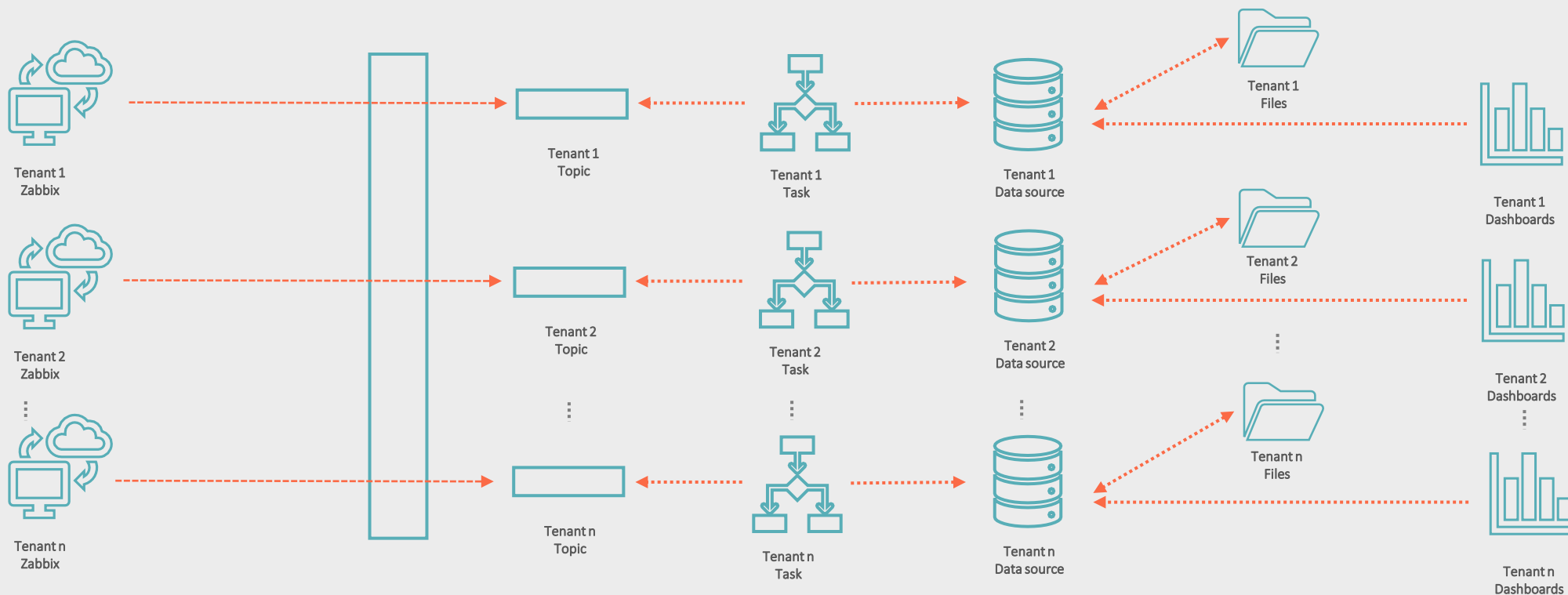
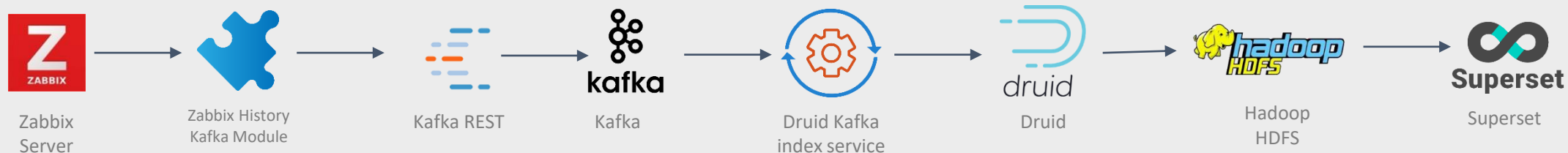
- Formats and writes Zabbix history to a webhook in zabbix real-time export protocol in JSON (one additional tag: item key)
- Full support for float, integer, string, text and log
- Content type can be specified (default: application/json)
- SSL verification errors can be ignored

Zabbix History Webhook Module

- Ability to call webhook per measurement or multiple measurements (bulk mode)
- Possibility to use custom tags while exporting in bulk mode (needed for kafka rest)
- Environment variables supported (for ease of use with containers)
- Can be used to export to any system that accepts web push

<https://github.com/clonera/zabbix-history-webhook>

Final Topology



Configuration #1: Zabbix Server

Environment variables to Zabbix Server Container

ZBX_LOADMODULE = "history_webhook.so"

ZBX_WEBHOOK_URL = "http://\${kafka-rest}:38082/topics/\${tenant}-zabbix"

ZBX_WEBHOOK_CONTENT_TYPE="application/vnd.kafka.json.v2+json"

ZBX_WEBHOOK_ENABLE_TEXT = "1"

ZBX_WEBHOOK_ENABLE_STRING = "1"

(float and integer is enabled by default we also enable text and string here)

<https://github.com/clonera/zabbix-history-webhook>

Configuration #2: Kafka Rest

Environment variables to Kafka Rest Container

KAFKA_REST_ZOOKEEPER_CONNECT = "\${zookeeper}:2181"

KAFKA_REST_HOST_NAME = "\${kafka-host}"

KAFKA_REST_LISTENERS = "http://0.0.0.0:38082"

<https://docs.confluent.io/current/kafka-rest/quickstart.html>

Configuration #3: Kafka

Environment variables to Kafka Container

KAFKA_BROKER_ID = 3

KAFKA_ZOOKEEPER_CONNECT = "\${zookeeper}:2181"

KAFKA_ADVERTISED_HOST_NAME = "\${hostname}"

KAFKA_LISTENERS = "PLAINTEXT://0.0.0.0:9092"

KAFKA_LOG_RETENTION_HOURS = 48

(9092 port is published on the host in this configuration)

Configuration #4: Druid HDFS

Download druid-hdfs-storage into extension folder and change configuration file:

```
# vi conf/druid/cluster/_common/common.runtime.properties  
druid.extensions.loadList=["druid-hdfs-storage", "druid-kafka-indexing-service", "druid-datasketches",  
"druid-influx-extensions", "postgresql-metadata-storage"]  
druid.storage.type=hdfs  
druid.storage.storageDirectory=hdfs://hadoop.local:8020/apps/druid/warehouse
```

<https://druid.apache.org/docs/latest/development/extensions-core/hdfs.html>

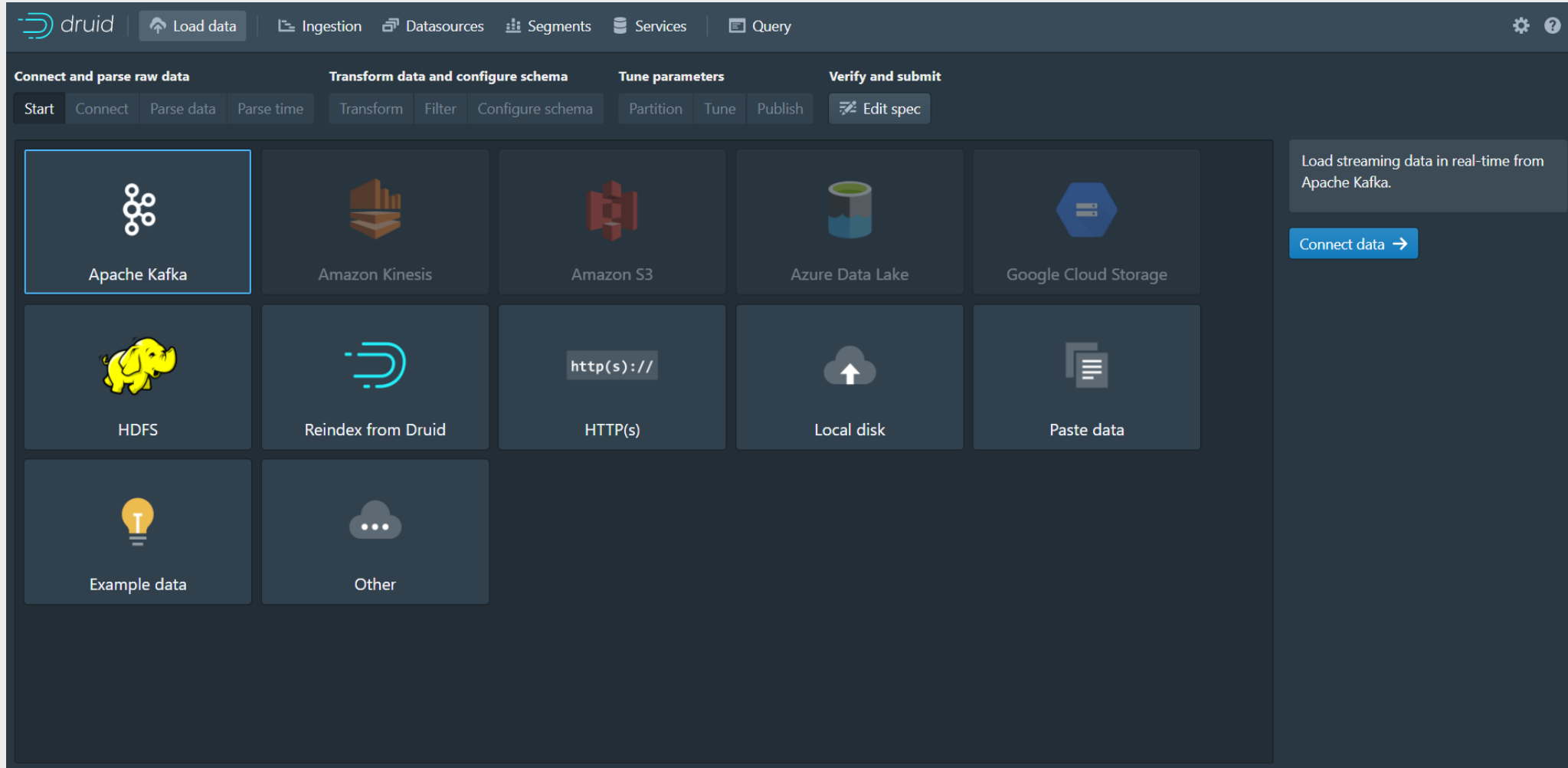
Configuration #5: Druid Kafka indexing

Download druid-kafka-indexing-service into extensions folder and change configuration file:

```
# vi conf/druid/cluster/_common/common.runtime.properties  
druid.extensions.loadList=["druid-hdfs-storage", "druid-kafka-indexing-service", "druid-datasketches",  
"druid-influx-extensions", "postgresql-metadata-storage"]
```

<https://druid.apache.org/docs/latest/development/extensions-core/kafka-ingestion.html>

Configuration #6: Druid ingestion



The screenshot displays the Druid web console interface for configuring a new ingestion spec. The top navigation bar includes links for 'Load data', 'Ingestion', 'Datasources', 'Segments', 'Services', and 'Query'. The main workflow is divided into four stages: 'Connect and parse raw data', 'Transform data and configure schema', 'Tune parameters', and 'Verify and submit'. The 'Connect and parse raw data' stage is currently active, showing a grid of data sources. 'Apache Kafka' is highlighted with a blue border. Other sources include Amazon Kinesis, Amazon S3, Azure Data Lake, Google Cloud Storage, HDFS, Reindex from Druid, HTTP(s), Local disk, Paste data, Example data, and Other. On the right side, a panel provides instructions for loading streaming data from Apache Kafka, accompanied by a 'Connect data' button with a right-pointing arrow.

druid | Load data | Ingestion | Datasources | Segments | Services | Query

Connect and parse raw data | Transform data and configure schema | Tune parameters | Verify and submit

Start | Connect | Parse data | Parse time | Transform | Filter | Configure schema | Partition | Tune | Publish | Edit spec

Apache Kafka | Amazon Kinesis | Amazon S3 | Azure Data Lake | Google Cloud Storage


HDFS | Reindex from Druid | HTTP(s) | Local disk | Paste data

Example data | Other

Load streaming data in real-time from Apache Kafka.

Connect data →

Configuration #6: Druid ingestion


druid
Load data
Ingestion
Datasources
Segments
Services
Query

Connect and parse raw data
Transform data and configure schema
Tune parameters
Verify and submit

Start
Connect
Parse data
Parse time
Transform
Filter
Configure schema
Partition
Tune
Publish
Edit spec

```

{"name":"ICMP loss","key":"icmpingloss","host":"Clonera Izmir SesVeeam | 172.16.220.169","groups":["Izmir/Application/Veeam","Izmir/Operating systems/Windows"],"applications":["Status"],"itemid":"ICMP loss"}
{"name":"MODULE LEVEL1: Temperature","key":"sensor.temp.value[h3cEntityExtTemperature.192]","host":"Clonera Istanbul BB_switch | 10.34.2.253","groups":["Istanbul/Network devices/HP Comware"],"applications":["Temperature"],"itemid":"MODULE LEVEL1: Temperature"}
{"name":"MODULE LEVEL1: Temperature","key":"sensor.temp.value[h3cEntityExtTemperature.210]","host":"Clonera Istanbul BB_switch | 10.34.2.253","groups":["Istanbul/Network devices/HP Comware"],"applications":["Temperature"],"itemid":"MODULE LEVEL1: Temperature"}
{"name":"CPU guest time","key":"system.cpu.util[guest]","host":"Clonera Istanbul clnristdruid-query01 | 10.34.1.233","groups":["Istanbul/Application/Druid"],"applications":["Performance","CPU"],"itemid":"CPU guest time"}
{"name":"Board: Memory utilization","key":"vm.memory.pused[h3cEntityExtMemUsage.192]","host":"Clonera Istanbul BB_switch | 10.34.2.253","groups":["Istanbul/Network devices/HP Comware"],"applications":["Memory"],"itemid":"Board: Memory utilization"}
{"name":"Free disk space on /boot (percentage)","key":"vfs.fs.size[boot,pfree]","host":"Clonera Istanbul STR03 | 10.34.254.183","groups":["Istanbul/Operating Systems/Linux"],"applications":["Filesystem"],"itemid":"Free disk space on /boot (percentage)"}
{"name":"Free disk space on G: (percentage)","key":"vfs.fs.size[G:,pfree]","host":"Clonera Istanbul SM Server | 10.0.0.50","groups":["Istanbul/Operating systems/Windows"],"applications":["Filesystem"],"itemid":"Free disk space on G: (percentage)"}
{"name":"CPU steal time","key":"system.cpu.util[steal]","host":"Clonera Istanbul STR04 | 10.34.254.184","groups":["Istanbul/Operating Systems/Linux"],"applications":["Performance","CPU"],"itemid":"CPU steal time"}
{"name":"Number of processed character values per second","key":"zabbix[wcache.values.str]","host":"Clonera Izmir Zabbix Proxy | 172.16.220.70","groups":["Zabbix servers"],"applications":["Zabbix"],"itemid":"Number of processed character values per second"}
{"name":"Average disk write queue length","key":"perf_counter[\\234(Total)\\1404]","host":"Clonera Izmir ZVM_1 | 172.16.220.20","groups":["Izmir/Application/Zerto","Izmir/Operating systems/Windows"],"applications":["Performance"],"itemid":"Average disk write queue length"}
{"name":"Processor load (15 min average)","key":"system.cpu.load[percpu,avg15]","host":"Clonera Izmir CLNRIZMDC01 | 172.16.220.105","groups":["Izmir/Application/Microsoft Domain Controller"],"applications":["Performance"],"itemid":"Processor load (15 min average)"}
{"name":"Board: CPU utilization","key":"system.cpu.util[h3cEntityExtCpuUsage.210]","host":"Clonera Istanbul BB_switch | 10.34.2.253","groups":["Istanbul/Network devices/HP Comware"],"applications":["CPU"],"itemid":"Board: CPU utilization"}
{"name":"Board: Memory utilization","key":"vm.memory.pused[h3cEntityExtMemUsage.210]","host":"Clonera Istanbul BB_switch | 10.34.2.253","groups":["Istanbul/Network devices/HP Comware"],"applications":["Memory"],"itemid":"Board: Memory utilization"}
{"name":"Free swap space in %","key":"system.swap.size[pfree]","host":"Clonera Istanbul MON04 | 10.34.254.164","groups":["Istanbul/Operating Systems/Linux"],"applications":["Memory"],"itemid":"Free swap space in %"}
{"name":"Free virtual memory, in %","key":"vm.vmemory.size[pavailable]","host":"Clonera Istanbul TREOISTNPS01 | 10.34.0.16","groups":["Istanbul/Operating systems/Windows"],"applications":["Memory"],"itemid":"Free virtual memory, in %"}
{"name":"Free disk space on /opt/cloneye (percentage)","key":"vfs.fs.size[opt/cloneye,pfree]","host":"Clonera Istanbul STR03 | 10.34.254.183","groups":["Istanbul/Operating Systems/Linux"],"applications":["Filesystem"],"itemid":"Free disk space on /opt/cloneye (percentage)"}
{"name":"Free virtual memory, in %","key":"vm.vmemory.size[pavailable]","host":"Clonera Istanbul CLNRISTSMWEB01 | 172.16.1.50","groups":["Istanbul/Operating systems/Windows"],"applications":["Memory"],"itemid":"Free virtual memory, in %"}
{"name":"CPU guest nice time","key":"system.cpu.util[guest_nice]","host":"Clonera Istanbul clnristdruid-query01 | 10.34.1.233","groups":["Istanbul/Application/Druid"],"applications":["Performance","CPU"],"itemid":"CPU guest nice time"}
{"name":"Free virtual memory, in %","key":"vm.vmemory.size[pavailable]","host":"Clonera Istanbul TREOISTKGS01 | 10.0.0.47","groups":["Istanbul/Operating systems/Windows"],"applications":["Memory"],"itemid":"Free virtual memory, in %"}
{"name":"Free virtual memory, in %","key":"vm.vmemory.size[pavailable]","host":"Clonera Istanbul VeeamOne | 10.34.0.66","groups":["Istanbul/Operating systems/Windows"],"applications":["Memory"],"itemid":"Free virtual memory, in %"}
{"name":"Free disk space on C: (percentage)","key":"vfs.fs.size[C:,pfree]","host":"Clonera Istanbul CLNRISTDC02 | 10.34.0.11","groups":["Istanbul/Application/Microsoft Domain Controller"],"applications":["Filesystem"],"itemid":"Free disk space on C: (percentage)"}
{"name":"CPU system time","key":"system.cpu.util[system]","host":"Clonera Istanbul STR04 | 10.34.254.184","groups":["Istanbul/Operating Systems/Linux"],"applications":["Performance","CPU"],"itemid":"CPU system time"}
{"name":"Free disk space on C: (percentage)","key":"vfs.fs.size[C:,pfree]","host":"Clonera Istanbul VeeamOne | 10.34.0.66","groups":["Istanbul/Operating systems/Windows"],"applications":["Filesystem"],"itemid":"Free disk space on C: (percentage)"}
{"name":"Processor load (15 min average per core)","key":"system.cpu.load[percpu,avg15]","host":"Clonera Istanbul MON05 | 10.34.254.165","groups":["Istanbul/Operating Systems/Linux"],"applications":["Performance"],"itemid":"Processor load (15 min average per core)"}
{"name":"Free virtual memory, in %","key":"vm.vmemory.size[pavailable]","host":"Clonera Istanbul SM Server | 10.0.0.50","groups":["Istanbul/Operating systems/Windows"],"applications":["Memory"],"itemid":"Free virtual memory, in %"}
{"name":"Free virtual memory, in %","key":"vm.vmemory.size[pavailable]","host":"Clonera Istanbul internal.clonera.net | 10.0.0.60","groups":["Istanbul/Operating systems/Windows"],"applications":["Memory"],"itemid":"Free virtual memory, in %"}
{"name":"Level 1 Virtual Module #1: CPU utilization","key":"system.cpu.util[h3cEntityExtCpuUsage.8]","host":"Clonera Istanbul TREOYENIOFISSW | 10.34.2.251","groups":["Istanbul/Network devices/HP Comware"],"applications":["CPU"],"itemid":"Level 1 Virtual Module #1: CPU utilization"}
{"name":"MODULE LEVEL1: Temperature","key":"sensor.temp.value[h3cEntityExtTemperature.8]","host":"Clonera Istanbul TREOYENIOFISSW | 10.34.2.251","groups":["Istanbul/Network devices/HP Comware"],"applications":["Temperature"],"itemid":"MODULE LEVEL1: Temperature"}
{"name":"Level 1 Virtual Module #1: Memory utilization","key":"vm.memory.pused[h3cEntityExtMemUsage.8]","host":"Clonera Istanbul TREOYENIOFISSW | 10.34.2.251","groups":["Istanbul/Network devices/HP Comware"],"applications":["Memory"],"itemid":"Level 1 Virtual Module #1: Memory utilization"}
{"name":"Utilization of history syncer internal processes, in %","key":"zabbix[process,history syncer,avg,busy]","host":"Zabbix server","groups":["Zabbix servers"],"applications":["Zabbix server"],"itemid":"Utilization of history syncer internal processes, in %"}
{"name":"Interface GigabitEthernet2/0/19(GigabitEthernet2/0/19 Interface): Bits received","key":"net.if.in[ifHCInOctets.84]","host":"Clonera Istanbul BB_switch | 10.34.2.253","groups":["Istanbul/Network devices/HP Comware"],"applications":["Network"],"itemid":"Interface GigabitEthernet2/0/19(GigabitEthernet2/0/19 Interface): Bits received"}
{"name":"Interface Bridge-Aggregation5(CLONERA-2_LACP): Bits sent","key":"net.if.out[ifHCOutOctets.914]","host":"Clonera Istanbul BB_switch | 10.34.2.253","groups":["Istanbul/Network devices/HP Comware"],"applications":["Network"],"itemid":"Interface Bridge-Aggregation5(CLONERA-2_LACP): Bits sent"}
{"name":"Interface GigabitEthernet1/0/17(treo_finland_test_sophos_poc_bitti): Bits received","key":"net.if.in[ifHCInOctets.17]","host":"Clonera Istanbul BB_switch | 10.34.2.253","groups":["Istanbul/Network devices/HP Comware"],"applications":["Network"],"itemid":"Interface GigabitEthernet1/0/17(treo_finland_test_sophos_poc_bitti): Bits received"}

```

Druid ingests raw data and converts it into a custom, [indexed format](#) that is optimized for analytic queries.

To get started, please specify what data you want to ingest.

[Learn more](#)

Bootstrap servers

kafka-server

Topic

tenant-zabbix

Consumer properties

```

{
  "bootstrap.servers": "kafka-server"
}

```

Where should the data be sampled from?


Start of stream


Apply


Cancel


Next: Parse data →


Configuration #6: Druid ingestion


 druid


 Load data


 Ingestion


 Datasources

 Segments

 Services

 Query





Connect and parse raw data

Transform data and configure schema

Tune parameters

Verify and submit

Start

Connect

Parse data

Parse time

Transform

Filter

Configure schema

Partition

Tune

Publish

Edit spec

☐ Flattened columns only

applications	clock	groups	host	itemid	key	name	ns	value
▶ Status	1602037233	[Izmir/Applicati...	Clonera Izmir SesV...	124607	icmppingloss	ICMP loss	625364770	0.0
▶ Temperature	1602037235	Istanbul/Network ...	Clonera Istanbul B...	49648	sensor.temp.value[...	MODULE LEVEL1: T...	321958346	89.0
▶ Temperature	1602037235	Istanbul/Network ...	Clonera Istanbul B...	49649	sensor.temp.value[...	MODULE LEVEL1: T...	321958346	84.0
▶ [CPU, Performance]	1602037235	Istanbul/Applicatio...	Clonera Istanbul...	159635	system.cpu.util[gu...	CPU guest time	358063540	0.0
▶ Memory	1602037235	Istanbul/Network ...	Clonera Istanbul B...	49646	vm.memory.pused...	Board: Memory uti...	414268847	37.0
▶ Filesystems	1602037235	Istanbul/Operating...	Clonera Istanbul S...	92015	vfs.fs.size[boot,pfr...	Free disk space on ...	472113003	76.822553
▶ Filesystems	1602037235	Istanbul/Operating...	Clonera Istanbul S...	102635	vfs.fs.size[G,pfree]	Free disk space on ...	477447009	99.926742
▶ [CPU, Performance]	1602037235	Istanbul/Operating...	Clonera Istanbul S...	161855	system.cpu.util[ste...	CPU steal time	491039928	0.0
▶ Zabbix proxy	1602037235	Zabbix servers	Clonera Izmir Zabb...	29075	zabbix[wcach,va...	Number of proces...	686034074	0.214555
▶ [Filesystems, Perfo...	1602037235	[Izmir/Applicati...	Clonera Izmir ZVM...	109295	perf_counter[V234(...	Average disk write ...	688160488	0.005514
▶ [CPU, Performance]	1602037235	Izmir/Application/...	Clonera Izmir CLN...	105275	system.cpu.load[p...	Processor load (15 ...	691237121	0.004444
▶ CPU	1602037235	Istanbul/Network ...	Clonera Istanbul B...	49645	system.cpu.util[h...	Board: CPU utilizat...	726038047	12.0
▶ Memory	1602037235	Istanbul/Network ...	Clonera Istanbul B...	49647	vm.memory.pused...	Board: Memory uti...	726038047	35.0
▶ Memory	1602037236	Istanbul/Operating...	Clonera Istanbul M...	161616	system.swap.size[...	Free swap space in...	84638362	1.67E-4
▶ Memory	1602037236	Istanbul/Operating...	Clonera Istanbul T...	101196	vm.vmemory.size[...	Free virtual memor...	86990906	75.505651
▶ Filesystems	1602037236	Istanbul/Operating...	Clonera Istanbul S...	92016	vfs.fs.size[/opt/clo...	Free disk space on ...	115888868	28.855717

Druid requires flat data (non-nested, non-hierarchical). Each row should represent a discrete event.

If you have nested data, you can [flatten](#) it here. If the provided flattening capabilities are not sufficient, please pre-process your data before ingesting it into Druid.

Ensure that your data appears correctly in a row/column orientation.

[Learn more](#)

Input format

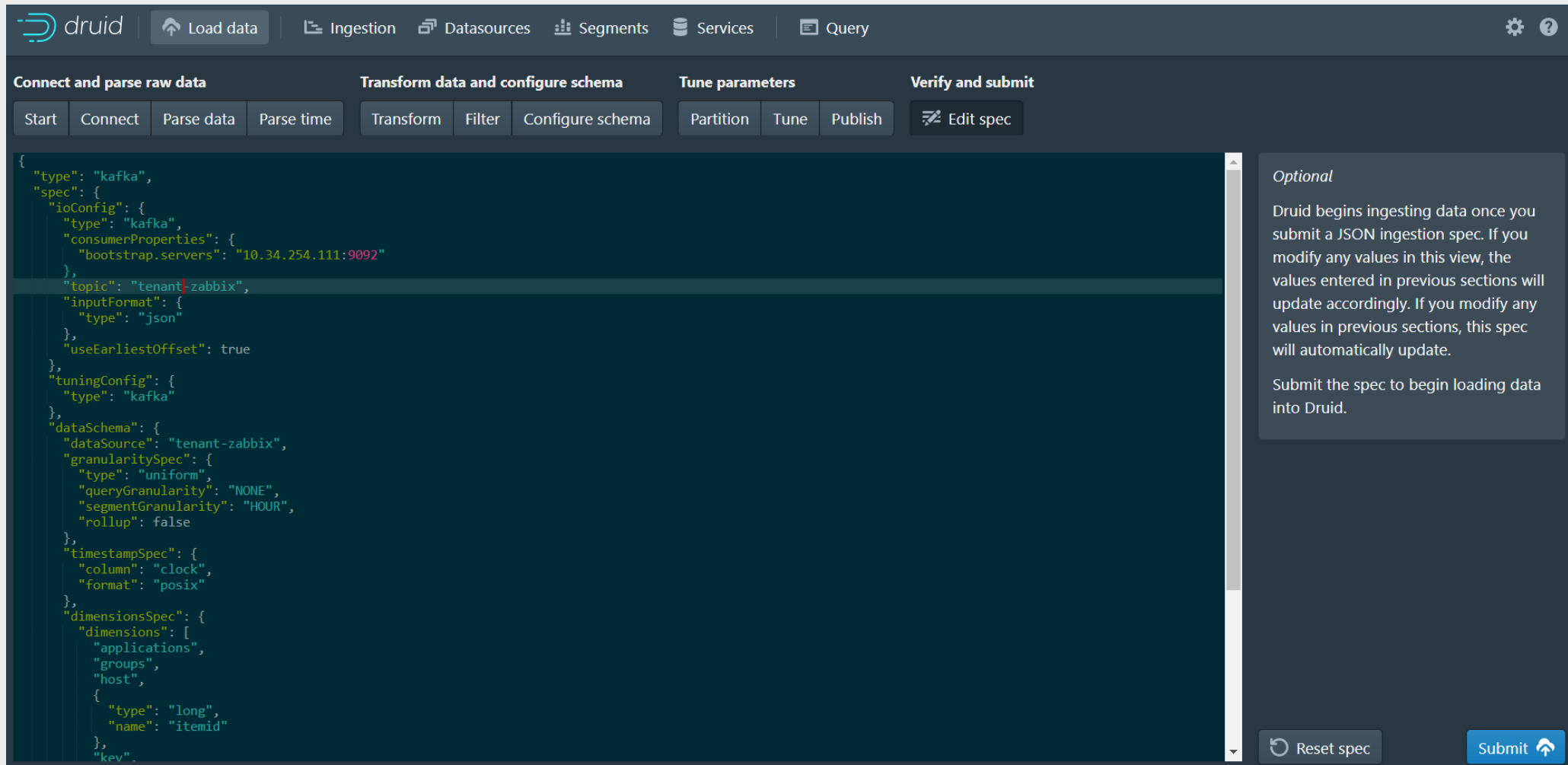
json

Apply

Add column flattening

Next: Parse time →

Configuration #6: Druid ingestion



The screenshot shows the Druid web console interface. At the top, there's a navigation bar with icons for Load data, Ingestion, Datasources, Segments, Services, and Query. Below this, there are four main tabs: Connect and parse raw data, Transform data and configure schema, Tune parameters, and Verify and submit. Under 'Connect and parse raw data', there are buttons for Start, Connect, Parse data, and Parse time. Under 'Transform data and configure schema', there are buttons for Transform, Filter, and Configure schema. Under 'Tune parameters', there are buttons for Partition, Tune, and Publish. Under 'Verify and submit', there is an 'Edit spec' button. The main area displays a JSON ingestion spec in a code editor. To the right of the code editor, there is an 'Optional' section with explanatory text and a 'Submit' button at the bottom right.

```
{
  "type": "kafka",
  "spec": {
    "ioConfig": {
      "type": "kafka",
      "consumerProperties": {
        "bootstrap.servers": "10.34.254.111:9092"
      },
      "topic": "tenant-zabbix",
      "inputFormat": {
        "type": "json"
      },
      "useEarliestOffset": true
    },
    "tuningConfig": {
      "type": "kafka"
    },
    "dataSchema": {
      "dataSource": "tenant-zabbix",
      "granularitySpec": {
        "type": "uniform",
        "queryGranularity": "NONE",
        "segmentGranularity": "HOUR",
        "rollup": false
      },
      "timestampSpec": {
        "column": "clock",
        "format": "posix"
      },
      "dimensionsSpec": {
        "dimensions": [
          "applications",
          "groups",
          "host",
          {
            "type": "long",
            "name": "itemid"
          }
        ],
        "key": "key"
      }
    }
  }
}
```

Optional

Druid begins ingesting data once you submit a JSON ingestion spec. If you modify any values in this view, the values entered in previous sections will update accordingly. If you modify any values in previous sections, this spec will automatically update.

Submit the spec to begin loading data into Druid.

Reset spec Submit

Configuration #6: Druid ingestion

druid
Load data
Ingestion
Datasources
Segments
Services
Query

Supervisors
Refresh
Columns (5/5)

Datasource	Type	Topic/Stream	Status	Actions
clonera-zabbix				
clonera-zabbix	kafka	clonera-zabbix	● RUNNING	🔍 ⚙️

Previous
Page 1 of 1
20 rows
Next


Tasks
Group by None Group ID Type Datasource Status Refresh
Columns (9/9)

Task ID	Group ID	Type	Datasource	Location	Created time	Status	Duration	Actions
			clonera-zabbix					
index_kafka_clonera-zabbix_6ff89594d201518_ogochhdg	index_kafka_clonera-zabbix	index_kafka	clonera-zabbix	10.34.1.234:8105	2020-10-09T07:34:44.790Z	● RUNNING		🔍 ⚙️
index_kafka_clonera-zabbix_cd84bd28a55ba17_ocnniokp	index_kafka_clonera-zabbix	index_kafka	clonera-zabbix	10.34.1.234:8112	2020-10-09T06:32:38.853Z	● SUCCESS	1:01:17	🔍 ⚙️
index_kafka_clonera-zabbix_1b9ef7b50cef420_eahjabne	index_kafka_clonera-zabbix	index_kafka	clonera-zabbix	10.34.1.234:8110	2020-10-09T05:31:25.747Z	● SUCCESS	1:02:12	🔍 ⚙️
index_kafka_clonera-zabbix_0e34a83242294de_ohdfnlja	index_kafka_clonera-zabbix	index_kafka	clonera-zabbix	10.34.1.234:8110	2020-10-09T04:30:10.526Z	● SUCCESS	1:01:14	🔍 ⚙️
index_kafka_clonera-zabbix_eff2b21cab9b58f_enammkab	index_kafka_clonera-zabbix	index_kafka	clonera-zabbix	10.34.1.234:8105	2020-10-09T03:28:54.890Z	● SUCCESS	1:01:13	🔍 ⚙️
index_kafka_clonera-zabbix_449a031421f2e03_pmjdfhli	index_kafka_clonera-zabbix	index_kafka	clonera-zabbix	10.34.1.234:8110	2020-10-09T02:27:28.782Z	● SUCCESS	1:01:15	🔍 ⚙️
index_kafka_clonera-zabbix_2a8895ff1704da9_hccmgope	index_kafka_clonera-zabbix	index_kafka	clonera-zabbix	10.34.1.234:8103	2020-10-09T01:25:22.357Z	● SUCCESS	1:02:12	🔍 ⚙️
index_kafka_clonera-zabbix_436f5c7c15a9fe3_nbliodlo	index_kafka_clonera-zabbix	index_kafka	clonera-zabbix	10.34.1.234:8112	2020-10-09T00:23:53.900Z	● SUCCESS	1:02:13	🔍 ⚙️

Previous
Page 1 of 2
20 rows
Next

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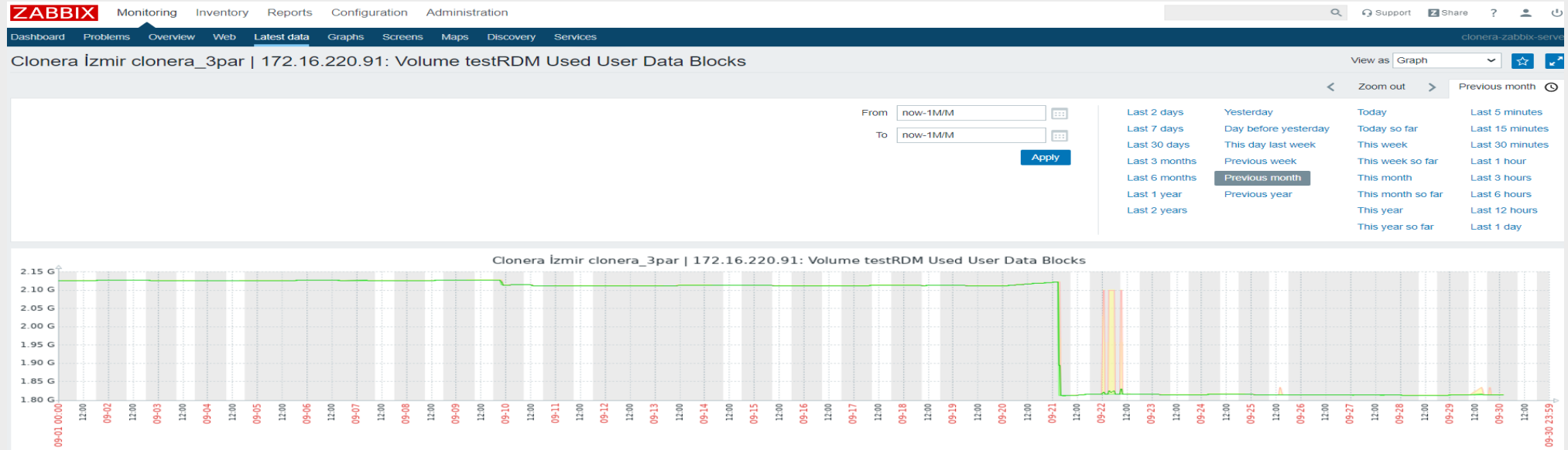
Configuration #7: Superset


Security Manage Sources Charts Dashboards SQL Lab
 + New

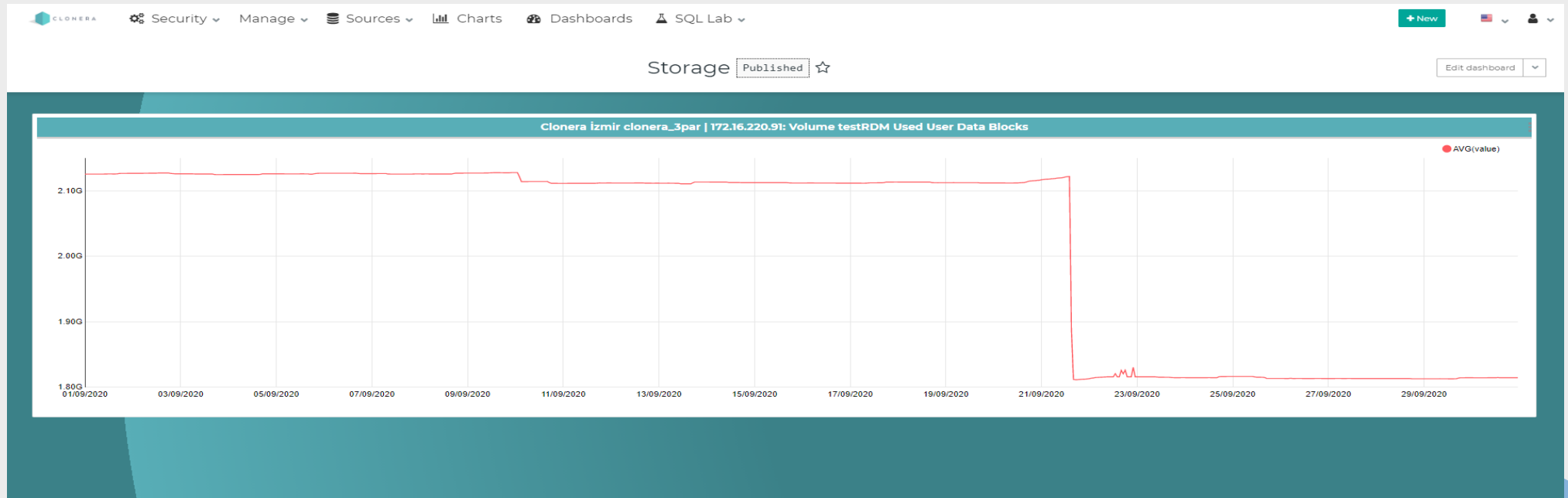
Edit Database

Database *	Druid
SQLAlchemy URI *	druid://druid-server:8082/druid/v2/sql/ <p>Refer to the SQLAlchemy docs for more information on how to structure your URI.</p> Test Connection
Chart Cache Timeout	Chart Cache Timeout <p>Duration (in seconds) of the caching timeout for charts of this database. A timeout of 0 indicates that the cache never expires. Note this defaults to the global timeout if undefined.</p>
Expose in SQL Lab	<input checked="" type="checkbox"/> <p>Expose this DB in SQL Lab</p>
Asynchronous Query Execution	<input type="checkbox"/> <p>Operate the database in asynchronous mode, meaning that the queries are executed on remote workers as opposed to on the web server itself. This assumes that you have a Celery worker setup as well as a results backend. Refer to the installation docs for more information.</p>
Allow Csv Upload	<input type="checkbox"/> <p>If selected, please set the schemas allowed for csv upload in Extra.</p>
Allow CREATE TABLE AS	<input type="checkbox"/> <p>Allow CREATE TABLE AS option in SQL Lab</p>
Allow DML	<input type="checkbox"/> <p>Allow users to run non-SELECT statements (UPDATE, DELETE, CREATE, ...) in SQL Lab</p>
CTAS Schema	CTAS Schema <p>When allowing CREATE TABLE AS option in SQL Lab, this option forces the table to be created in this schema</p>
Impersonate the logged on user	<input type="checkbox"/> <p>If Presto, all the queries in SQL Lab are going to be executed as the currently logged on user who must have permission to run them. If Hive and hive.server2.enable.doAs is enabled, will run the queries as service account, but impersonate the currently logged on user via hive.server2.proxy.user property.</p>

Zabbix



Superset



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Thanks