



DevOps Lab

ELK

Home tasks

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| <input type="checkbox"/> Name ^ | Zone | Creation time | Recommendation | In use by | Internal IP | External IP | Connect |
|--|---------------|--------------------------|----------------|-----------|-----------------|---------------|---------|
| <input type="checkbox"/> dmezghva-elk-client | us-central1-c | Sep 10, 2020, 7:54:57 PM | | | 10.3.1.3 (nic0) | 34.122.87.129 | SSH ▾ ⋮ |
| <input type="checkbox"/> dmezghva-elk-server | us-central1-c | Sep 10, 2020, 7:54:56 PM | | | 10.3.1.2 (nic0) | 34.71.213.235 | SSH ▾ ⋮ |

1. Build server (Elasticsearch, Kibana)

```

dzmitry_mezhva@dmezghva-elk-server:~
[dzmitry_mezhva@dmezghva-elk-server ~]$ hostname
dmezghva-elk-server
[dzmitry_mezhva@dmezghva-elk-server ~]$ systemctl status elasticsearch
● elasticsearch.service - Elasticsearch
   Loaded: loaded (/usr/lib/systemd/system/elasticsearch.service; enabled; vendor preset: disabled)
   Active: active (running) since Thu 2020-09-10 16:57:01 UTC; 19min ago
     Docs: https://www.elastic.co
   Main PID: 1516 (java)
    CGroup: /system.slice/elasticsearch.service
            └─1516 /usr/share/elasticsearch/jdk/bin/java -Xshare:auto -Des.networkaddress.cache.ttl=60 -Des.netwo...
              └─1671 /usr/share/elasticsearch/modules/x-pack-ml/platform/linux-x86_64/bin/controller

Sep 10 16:56:29 dmezghva-elk-server systemd[1]: Starting Elasticsearch...
Sep 10 16:57:01 dmezghva-elk-server systemd[1]: Started Elasticsearch.
[dzmitry_mezhva@dmezghva-elk-server ~]$ systemctl status kibana
● kibana.service - Kibana
   Loaded: loaded (/etc/systemd/system/kibana.service; enabled; vendor preset: disabled)
   Active: active (running) since Thu 2020-09-10 16:58:23 UTC; 18min ago
     Main PID: 1790 (node)
    CGroup: /system.slice/kibana.service
            └─1790 /usr/share/kibana/bin/./node/bin/node /usr/share/kibana/bin/./src/cli

Sep 10 17:08:59 dmezghva-elk-server kibana[1790]: {"type":"response","@timestamp":"2020-09-10T17:08:58Z","tag...a/5.
Sep 10 17:08:59 dmezghva-elk-server kibana[1790]: {"type":"response","@timestamp":"2020-09-10T17:08:59Z","tag...a/5.
Sep 10 17:08:59 dmezghva-elk-server kibana[1790]: {"type":"response","@timestamp":"2020-09-10T17:08:59Z","tag...a/5.
Sep 10 17:08:59 dmezghva-elk-server kibana[1790]: {"type":"response","@timestamp":"2020-09-10T17:08:59Z","tag...0.0;
Sep 10 17:08:59 dmezghva-elk-server kibana[1790]: {"type":"response","@timestamp":"2020-09-10T17:08:59Z","tag...a/5.
Sep 10 17:11:22 dmezghva-elk-server kibana[1790]: {"type":"response","@timestamp":"2020-09-10T17:11:22Z","tag...lla/
Sep 10 17:11:23 dmezghva-elk-server kibana[1790]: {"type":"response","@timestamp":"2020-09-10T17:11:23Z","tag...lla/5
Sep 10 17:11:23 dmezghva-elk-server kibana[1790]: {"type":"response","@timestamp":"2020-09-10T17:11:23Z","tag...5.0
Sep 10 17:11:24 dmezghva-elk-server kibana[1790]: {"type":"response","@timestamp":"2020-09-10T17:11:24Z","tag...a/5.
Sep 10 17:11:41 dmezghva-elk-server kibana[1790]: {"type":"response","@timestamp":"2020-09-10T17:11:41Z","tag...illa
Hint: Some lines were ellipsized, use -l to show in full.
[dzmitry_mezhva@dmezghva-elk-server ~]$

```

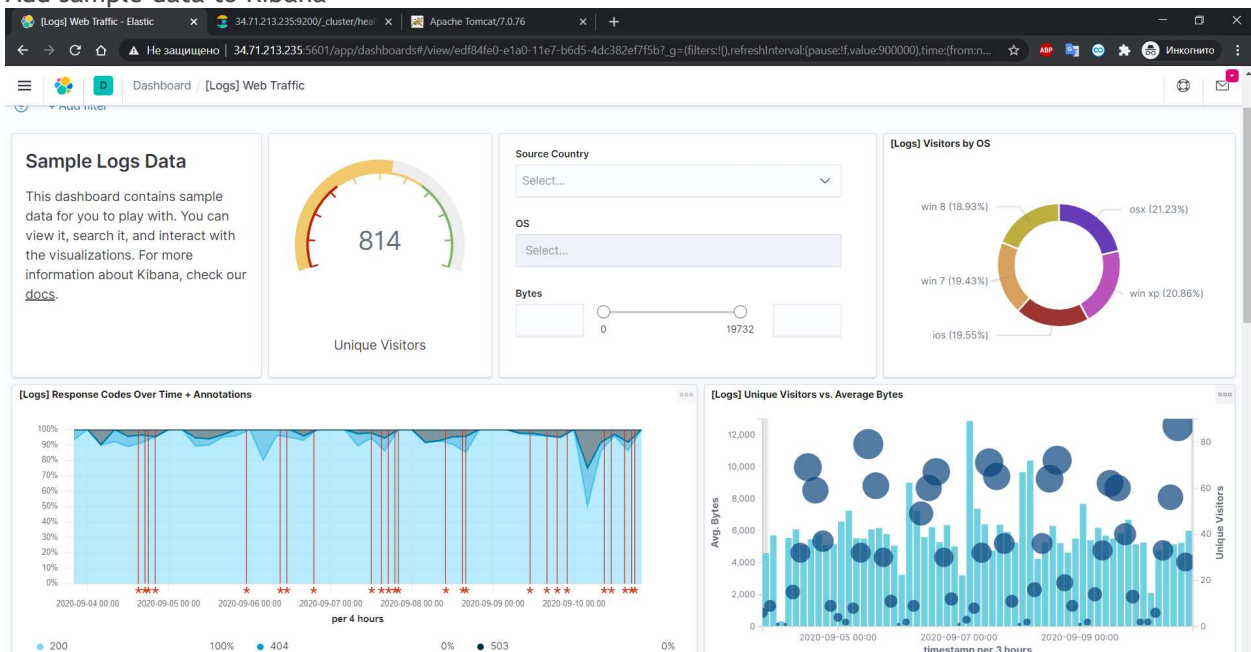
2. Show configuration (EK health)

```

{
  "cluster_name": "elasticsearch",
  "status": "green",
  "timed_out": false,
  "number_of_nodes": 1,
  "number_of_data_nodes": 1,
  "active_primary_shards": 6,
  "active_shards": 6,
  "relocating_shards": 0,
  "initializing_shards": 0,
  "unassigned_shards": 0,
  "delayed_unassigned_shards": 0,
  "number_of_pending_tasks": 0,
  "number_of_in_flight_fetch": 0,
  "task_max_waiting_in_queue_millis": 0,
  "active_shards_percent_as_number": 100.0
}

```

3. Add sample data to Kibana



4. Build client (Tomcat)

```

dzmitry_mezhva@dmezghva-elk-client:~
Connected, host fingerprint: ssh-rsa 0 10:C7:8E:02:BE:EE:57:34:46:3B:8F:29:41:F8
:C4:16:70:D6:41:C8:31:B2:21:FD:0B:B3:ED:5E:CE:23:89:EB
[dzmitry_mezhva@dmezghva-elk-client ~]$ hostname
dmezghva-elk-client
[dzmitry_mezhva@dmezghva-elk-client ~]$ systemctl status tomcat
● tomcat.service - Apache Tomcat Web Application Container
   Loaded: loaded (/usr/lib/systemd/system/tomcat.service; enabled; vendor preset: disabled)
   Active: active (running) since Thu 2020-09-10 16:56:34 UTC; 21min ago
   Main PID: 1534 (java)
   CGroup: /system.slice/tomcat.service
           └─1534 /usr/lib/jvm/jre/bin/java -classpath /usr/share/tomcat/bin/bootstrap.jar:/usr/share/tomcat/b...


Sep 10 16:56:39 dmezghva-elk-client server[1534]: Sep 10, 2020 4:56:39 PM org.apache.catalina.startup.TldCo...cute
Sep 10 16:56:39 dmezghva-elk-client server[1534]: INFO: At least one JAR was scanned for TLDs yet contained...ime.
Sep 10 16:56:39 dmezghva-elk-client server[1534]: Sep 10, 2020 4:56:39 PM org.apache.catalina.startup.HostC...tory
Sep 10 16:56:39 dmezghva-elk-client server[1534]: INFO: Deployment of web application directory /var/lib/to...1 ms
Sep 10 16:56:39 dmezghva-elk-client server[1534]: Sep 10, 2020 4:56:39 PM org.apache.coyote.AbstractProtocol start
Sep 10 16:56:39 dmezghva-elk-client server[1534]: INFO: Starting ProtocolHandler ["http-bio-8080"]
Sep 10 16:56:39 dmezghva-elk-client server[1534]: Sep 10, 2020 4:56:39 PM org.apache.coyote.AbstractProtocol start
Sep 10 16:56:39 dmezghva-elk-client server[1534]: INFO: Starting ProtocolHandler ["ajp-bio-8009"]
Sep 10 16:56:40 dmezghva-elk-client server[1534]: Sep 10, 2020 4:56:40 PM org.apache.catalina.startup.Catal...tart
Sep 10 16:56:40 dmezghva-elk-client server[1534]: INFO: Server startup in 3953 ms
Hint: Some lines were ellipsized, use -l to show in full.
[dzmitry_mezhva@dmezghva-elk-client ~]$

```

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Apache Tomcat/7.0.76

If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

[Security Considerations HOW-TO](#)

[Manager Application HOW-TO](#)

[Clustering/Session Replication HOW-TO](#)

Server Status

Manager App

Host Manager

Developer Quick Start

[Tomcat Setup](#) [Realms & AAA](#) [Examples](#) [Servlet Specifications](#)

[First Web Application](#) [JDBC DataSources](#) [Tomcat Versions](#)

Managing Tomcat

For security, access to the `manager` webapp is restricted. Users are defined in:

`$CATALINA_HOME/conf/tomcat-users.xml`

In Tomcat 7.0 access to the manager application is split between different users. [Read more...](#)

[Release Notes](#)

[Changelog](#)

[Migration Guide](#)

[Security Notices](#)

Documentation

[Tomcat 7.0 Documentation](#)

[Tomcat 7.0 Configuration](#)

[Tomcat Wiki](#)

Find additional important configuration information in:

`$CATALINA_HOME/RUNNING.txt`

Developers may be interested in:

[Tomcat 7.0 Bug Database](#)

[Tomcat 7.0 JavaDocs](#)

[Tomcat 7.0 SVN Repository](#)

Getting Help

[FAQ and Mailing Lists](#)

The following mailing lists are available:

[tomcat-announce](#)
Important announcements, releases, security vulnerability notifications. (Low volume).

[tomcat-users](#)
User support and discussion

[taglibs-user](#)
User support and discussion for [Apache Taglibs](#)

[tomcat-dev](#)
Development mailing list, including commit messages