



# **ELK on CentOS 7.2**

## **User's Guide**

### Revision History

Date	Version	Description	Prepared by
2017/09/01	V1.1	User's Guide	Zhuyun/Technical Support

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# Preface

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3. If you have other suggestions on image, send them to [support@jiagouyun.com](mailto:support@jiagouyun.com).

## II. About us:

Zhuyun Information Technology Co., Ltd. was founded in 2013, as one of the few

services companies entirely engaged in cloud-based business in China. Relying on Alibaba Cloud's public cloud computing technology, Zhuyun is committed to helping the majority of companies choose the cloud and big data products that truly fit their business needs. Meanwhile, Zhuyun provides services including consulting, design, system implementation, application migration, system management, hybrid cloud management, and data center construction and other services; and helps enterprises build IT infrastructure of the cloud computing era.

### **III. Contact us:**

#### **1. Website**

<http://www.cloudcare.cn>

#### **2. Address**

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Zhonghua Plaza, No. 33 of Third Zhongshan Road, Yuexiu District, Guangzhou

Zhongguancun Software Park, No.7 Yingcui Road, Jiangning District, Nanjing

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### 3. More support and help

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Email: [support@jiagouyun.com](mailto:support@jiagouyun.com)

# 1. Image environment

## 1.1. Image version

Operating System: Centos 7.2 64 bits

Software details of the image V1.0:

elasticsearch-5.2.1 + Logstash-5.2-1 + kibana-5.2.1

## 1.2. Installation instructions

The image environment is installed by official rpm package, which is downloaded from the official website([www.elastic.co](http://www.elastic.co)).

In the image, scripts about installation and uninstallation are both under directory “/root/elk\_update” .

# 2. Software directories and configuration list

The ELK software is installed with official rpm package and installed into default directories:

Elasticsearch configuration file: /etc/elasticsearch/elasticsearch.yml

Elasticsearch log directory: /var/log/elasticsearch

More related directories and documents can be seen below:

```
/etc/elasticsearch
/etc/elasticsearch/elasticsearch.yml
/etc/elasticsearch/logging.yml
/etc/elasticsearch/scripts
/etc/init.d/elasticsearch
/etc/sysconfig/elasticsearch
/usr/lib/sysctl.d
/usr/lib/sysctl.d/elasticsearch.conf
/usr/lib/systemd/system/elasticsearch.service
/usr/lib/tmpfiles.d
/usr/lib/tmpfiles.d/elasticsearch.conf
/usr/share/elasticsearch/LICENSE.txt
/usr/share/elasticsearch/NOTICE.txt
/usr/share/elasticsearch/README.textile
/usr/share/elasticsearch/bin
/usr/share/elasticsearch/bin/elasticsearch
/usr/share/elasticsearch/bin/elasticsearch-systemd-pre-exec
/usr/share/elasticsearch/bin/elasticsearch.in.sh
/usr/share/elasticsearch/bin/plugin
/usr/share/elasticsearch/lib
/usr/share/elasticsearch/lib/HdrHistogram-2.1.6.jar
/usr/share/elasticsearch/lib/apache-log4j-extras-1.2.17.jar
/usr/share/elasticsearch/lib/commons-cli-1.3.1.jar
/usr/share/elasticsearch/lib/compiler-0.8.13.jar
/usr/share/elasticsearch/lib/compress-lzf-1.0.2.jar
/usr/share/elasticsearch/lib/elasticsearch-2.3.3.jar
/usr/share/elasticsearch/lib/guava-18.0.jar
/usr/share/elasticsearch/lib/hppc-0.7.1.jar
/usr/share/elasticsearch/lib/jackson-core-2.6.6.jar
/usr/share/elasticsearch/lib/jackson-dataformat-cbor-2.6.6.jar
```

Logstash configuration file: /etc/logstash/conf.d/ (Note: logstash require users to manually edit the configuration file based on their actual environment).

Since many files and directories generated, here will not list anymore, refer to below to get more:

```
/etc/init.d/logstash
/etc/logrotate.d/logstash
/etc/logstash/conf.d
/etc/sysconfig/logstash
/opt/logstash/CHANGELOG.md
/opt/logstash/CONTRIBUTORS
/opt/logstash/Gemfile
/opt/logstash/Gemfile.jruby-1.9.lock
/opt/logstash/LICENSE
/opt/logstash/NOTICE.TXT
/opt/logstash/bin/logstash
/opt/logstash/bin/logstash-plugin
/opt/logstash/bin/logstash-plugin.bat
/opt/logstash/bin/logstash.bat
/opt/logstash/bin/logstash.lib.sh
/opt/logstash/bin/plugin
/opt/logstash/bin/plugin.bat
/opt/logstash/bin/rspec
/opt/logstash/bin/rspec.bat
/opt/logstash/bin/setup.bat
/opt/logstash/lib/bootstrap/bundler.rb
/opt/logstash/lib/bootstrap/environment.rb
/opt/logstash/lib/bootstrap/rspec.rb
/opt/logstash/lib/bootstrap/rubygems.rb
/opt/logstash/lib/bootstrap/util/compress.rb
/opt/logstash/lib/pluginmanager/command.rb
/opt/logstash/lib/pluginmanager/gemfile.rb
/opt/logstash/lib/pluginmanager/install.rb
/opt/logstash/lib/pluginmanager/list.rb
/opt/logstash/lib/pluginmanager/main.rb
█
```

### 3. Command summary

systemctl start (start stop restart) logstash

systemctl start (start stop restart) kibana

systemctl start (start stop restart) elasticsearch

### 4. Uninstalling ELK

Refer to below commands to uninstall ELK software:



Or use uninstallation script under “/root/elk\_update/” directory.



Note: This operation will clean up the environment of the image. Before uninstalling, please back up necessary data.

## 5. Default settings of the image

In the image, elasticsearch listens on port 9200, logstash listens on port 9300, kibana listens on port 5601. The related ports will be listened on automatically once the image installation done, indicating that the ELK infrastructure is deployed (users can edit the configuration file to change the listening ports according to the situation).

```
[root@izbp18cv3fzy4yb876ehlsz elk_update]# netstat -ntlp
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:9200          0.0.0.0:*               LISTEN      1000/java
tcp        0      0 0.0.0.0:9300          0.0.0.0:*               LISTEN      1000/java
tcp        0      0 0.0.0.0:22            0.0.0.0:*               LISTEN      882/sshd
tcp        0      0 0.0.0.0:5601          0.0.0.0:*               LISTEN      876/node
```

After deploying image done, test it through visiting IP+port in browser. The following figure is a simple example, and more operations should be based on the actual situation.

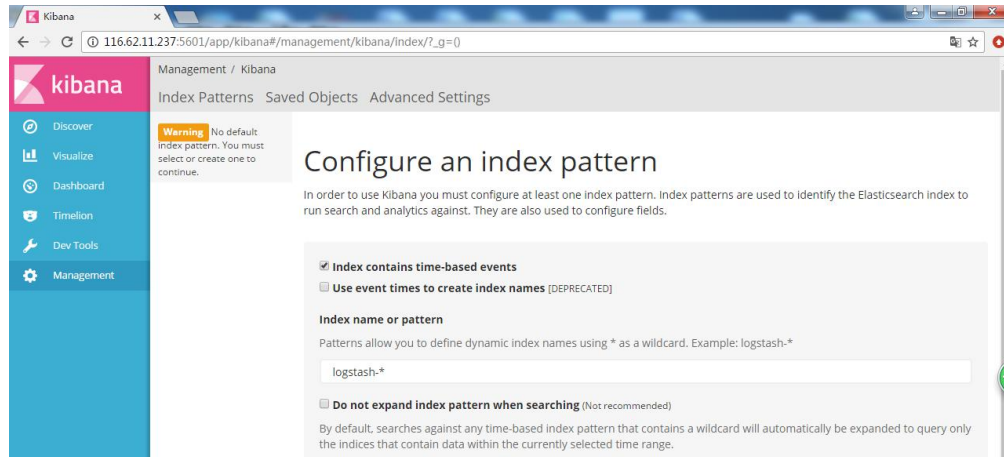
### Elasticsearch



```
{
  "name": "osfAEmp",
  "cluster_name": "elasticsearch",
  "cluster_uuid": "zS_7H0ktSoqIcEiFfra4kg",
  "version": {
    "number": "5.2.1",
    "build_hash": "db0d481",
    "build_date": "2017-02-09T22:05:32.386Z",
    "build_snapshot": false,
    "lucene_version": "6.4.1"
  },
  "tagline": "You Know, for Search"
}
```

### Kibana

Note that users need to create an index schema or select an existing index schema on this page. For more information, refer to the web browser.



You can see the status of kibana service from below figure.

