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[illegible]

項目	内容	備考
パスワード	パスワード ~/.bash_history パスワード パスワード	パスワード
パスワード	パスワード パスワード	パスワード
パスワード	ps -ef パスワード	パスワード
パスワード	パスワード パスワード	パスワード

項目	形式
パスワード	16文字以内
メールアドレス	SHA1+Base64 16文字以内
電話番号	10文字以内 / 11文字以内

1. Create a new directory for the ZooKeeper configuration files.

2. Create a new file named `zoo.cfg` in the directory.

```
# Specify the location of the digest file
echo -n "admin:YourSecurePassword123" | openssl dgst -sha1 -binary | base64
# HYGa7IZRm2PUBFiFFu8xY2pPP/s=
```

3. Edit the `zoo.cfg` file.

- Add the following lines to the `zoo.cfg` file:
- `history -c`
- `unset HISTFILE`

4. Create a new ZooKeeper ACL file.

```
# ZooKeeper
/usr/local/zookeeper-3.4.13/bin/zkCli.sh -server localhost:2181

# Add the digest authentication
addauth digest admin:YourSecurePassword123

# Set the ACL
setAcl / digest:admin:HYGa7IZRm2PUBFiFFu8xY2pPP/s=:cdrwa

# Get the ACL
getAcl /

# Quit
quit
```

5. Create a new file named `zoo.cfg` in the directory.

```
# bash
history -c
history -w
```

```
# 遍历所有文件
grep -r "password" /home/shuncom/ --include="*.sh" --include="*.log"
```



```
#!/bin/bash

# ZooKeeper的安装 (安装)

# ===== 环境变量 =====

ZK_USER="shuncom"

ZK_GROUP="shuncom"

ZK_HOME="/usr/local/zookeeper-3.4.13"

ZK_LOG_DIR="/home/shuncom/log/zookeeper"

# 设置 ZooKeeper 的密码

# ZK_PASSWORD="password"

# ===== 安装 =====

sudo tar -zxvf zookeeper-3.4.13.tar.gz -C /usr/local

sudo chown -R ${ZK_USER}.${ZK_GROUP} ${ZK_HOME}

# ===== Java 配置 =====

sudo touch ${ZK_HOME}/conf/java.env

cat <<EOF | sudo tee ${ZK_HOME}/conf/java.env > /dev/null

export JAVA_HOME=/usr/local/jdk1.8.0_111

# 配置 JVM 参数防止 DoS

export JVMFLAGS="-Xmx512m -Xms256m"

EOF

# ===== 配置日志 =====

sudo mv ${ZK_HOME}/conf/log4j.properties ${ZK_HOME}/conf/log4j.properties.bak

sudo mkdir -p ${ZK_LOG_DIR}

sudo chown -R ${ZK_USER}.${ZK_GROUP} ${ZK_LOG_DIR}

cat <<EOF | sudo tee ${ZK_HOME}/conf/log4j.properties > /dev/null
```

```

# 配置log4j
log4j.rootLogger=INFO, ROLLINGFILE
log4j.appender.ROLLINGFILE=org.apache.log4j.RollingFileAppender
log4j.appender.ROLLINGFILE.Threshold=INFO
log4j.appender.ROLLINGFILE.File=${ZK_LOG_DIR}/zookeeper.log
log4j.appender.ROLLINGFILE.MaxFileSize=10MB
log4j.appender.ROLLINGFILE.layout=org.apache.log4j.PatternLayout
log4j.appender.ROLLINGFILE.layout.ConversionPattern=%d{ISO8601} [myid:%X{myid}] - %-5p [%t:%C{1}:@%L] - %m%n
EOF

# ===== 配置zoo.cfg =====
cp ${ZK_HOME}/conf/zoo_sample.cfg ${ZK_HOME}/conf/zoo.cfg

# 配置
cat <<EOF | sudo tee -a ${ZK_HOME}/conf/zoo.cfg > /dev/null

# ===== 配置 =====
# 配置
maxClientCnxns=60
# 配置4lw
4lw.commands.whitelist=stat,ruok,conf,isro
# 配置
disableAdminServer=true
EOF

# ===== 配置 =====
sudo -u ${ZK_USER} ${ZK_HOME}/bin/zkServer.sh start
sleep 5
ps -fle | grep zookeeper | grep -v grep

# ===== ACL配置 =====
echo ""
echo "===== 配置 ====="
echo "1. 配置ACL"
echo "    ${ZK_HOME}/bin/zkCli.sh -server localhost:2181"
echo "    > addauth digest admin:YOUR_PASSWORD"
echo "    > setAcl / digest:admin:HASH_VALUE:cdrwa"
echo "2. 配置"
echo "    echo -n 'admin:YOUR_PASSWORD' | openssl dgst -sha1 -binary | base64"

```

```
echo "3. 配置历史 -c 配置"
echo "====="
```



14.04

Ubuntu

Ubuntu 14.04 2019 配置

配置	配置	配置
配置	配置 IP 2181	配置
配置	配置 Ubuntu	配置
配置	chmod 700 ZK 配置	配置
配置	配置 auditd ZK	配置
配置	配置 90 ZK	配置



```
# 配置IP ZooKeeper
sudo ufw allow from 192.168.1.0/24 to any port 2181 proto tcp
sudo ufw deny 2181/tcp # 配置
```



```
# 配置
chmod 700 /usr/local/zookeeper-3.4.13/conf
chmod 600 /usr/local/zookeeper-3.4.13/conf/zoo.cfg
chmod 600 /usr/local/zookeeper-3.4.13/conf/java.env

# 配置
chmod 750 /home/shuncom/log/zookeeper
chmod 640 /home/shuncom/log/zookeeper/*.log
```



```
# 1. 配置ACL
/usr/local/zookeeper-3.4.13/bin/zkCli.sh -server localhost:2181 <<EOF
getAcl /
quit
EOF
# 配置'world','anyone' 权限为 'digest:admin:xxx'

# 2. 配置认证
# 配置addauth
/usr/local/zookeeper-3.4.13/bin/zkCli.sh -server localhost:2181 <<EOF
ls /
# 认证Authentication is not valid
quit
EOF

# 3. 配置审计
grep -i "password\|passwd" ~/.bash_history
# 查看审计

# 4. 配置网络
netstat -tlnp | grep 2181
# 查看网络IP
```



配置项	配置值
ACL配置	配置成功
认证	配置成功
审计	配置成功 ACL配置成功
网络	△ Ubuntu 14.04配置成功
查看	配置成功 ZK配置成功

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□□□□□□□□□□ ZooKeeper□□□□□□□□□□□□

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