v1.16_keepalived_1.3.6

```
keepalived
  ⓓ
        keepalived 1.3.6
       , 1.2.15 , 1.3.6
keepalived open source, (high availabilitty) (load-balancing).
                                                         VRRP,
                                                                   Linux Vitrual Server (IPVS). Keepalived Eltex , ,
                                                                                                                   GitHub (http
s://github.com/acassen/keepalived)
Keepalived SoftWLC, VRRP.
keepalived Ubuntu 14.04 Wi-Fi .
 root@master:/# dpkg -i keepalived_1.3.6-eltexu14_amd64.deb
   root
 service keepalived start
 keepalived start/running, process 2471
 root@master:/# service keepalived stop
 keepalived stop/waiting
```

```
root@master:/# service keepalived status
```

keepalived start/running, process 2809

keepalived

/etc/keepalived/keepalived.conf	
/etc/keepalived/check_ping.sh	EMS
/etc/keepalived/keep_notify.sh	, (MASTER, BACKUP, FAULT)
/etc/sysconfig/keepalived	keepalived
/etc/keepalived/mongo_switch.js	replicaSet MongoDB , VRRP

/etc/keepalived/keepalived.conf

```
! Configuration File for keepalived
global_defs {
   notification_email {
     admin@example.org
   notification_email_from softwlc@example.org
   smtp_server mail.example.org
   smtp_connect_timeout 30
   router_id swlc1
   enable_traps
}
vrrp_script check_network {
   script "/etc/keepalived/check_ping.sh"
   interval 5
   weight 50
   fall 3
   rise 3
   init_fail
   user root
vrrp_instance VI_SWLC {
   state BACKUP
   interface eth0
   virtual_router_id 1
   track_script {
       check_network
   track_interface {
       eth0 weight 50
   priority 150
   advert_int 1
   nopreempt
   authentication {
      auth_type PASS
       auth_pass eltex
   virtual_ipaddress {
       <virtual_ip> dev eth0 label eth0:1
   notify_master "/etc/keepalived/keep_notify.sh master"
   notify_backup "/etc/keepalived/keep_notify.sh backup"
   notify_fault "/etc/keepalived/keep_notify.sh fault"
    unicast_peer {
       <ip_server1>
}
```

:global_defs, vrrp_script, vrrp_instance. , , VRRP.

:

/etc/keepalived/check_ping.sh

```
#!/bin/bash
# host to ping
# there - default gw
HOST=<default_gw_ip>
# -q quiet
\# -c nb of pings to perform
ping -q -c5 $HOST > /dev/null
# $? var keeping result of execution
# previous command
if [ $? -eq 0 ]
   then
       echo `date +"%T %F"` "OK gw reachable"
       echo `date +"%T %F"` "ERROR gw unreacheble!"
       EXIT_CODE=1
fi
exit $EXIT_CODE
```

., , SoftWLC .

keep_notify.sh

/etc/keepalived/keep_notify.sh

```
#!/bin/bash
MYSQL_USER="<mysql_user>"
MYSQL_PASSWORD="<mysql_password>"
mongo_set_role() {
   local role="$1"
   if [[ "$(which mongo)" ]]; then
       mongo --quiet --eval "var role=\"$role\"" admin /etc/keepalived/mongo_switch.js
       # Uncomment if using mongodb auth
       #mongo -u<username> -p<password> --quiet --eval "var role=\"$role\"" admin /etc/keepalived/mongo_switch.
js
   fi
}
if ! lockfile-create --use-pid -r 5 /tmp/keep.mode.lock; then
   echo "Unable to lock"
   echo "Unable to lock" > /tmp/keep.mode.lock.fail
    exit 0
fi
case "$1" in
   master)
   # ems_reload_all
   echo "MASTER" > /tmp/keep.mode
   mongo_set_role master
   service eltex-ems restart
   service tomcat7 restart
   service eltex-ngw restart
    # MySQL
   # heartbeat
   mysql -u$MYSQL_USER -p$MYSQL_PASSWORD -e "stop slave"
   mysql -u$MYSQL_USER -p$MYSQL_PASSWORD -e "start slave"
  ;;
backup)
   echo "BACKUP" > /tmp/keep.mode
   mongo_set_role slave
   service mongodb restart
   service eltex-ems stop
   service tomcat7 stop
   service eltex-ngw stop
   mysql -u$MYSQL_USER -p$MYSQL_PASSWORD -e "stop slave"
   mysql -u$MYSQL_USER -p$MYSQL_PASSWORD -e "start slave"
 ;;
 fault)
   echo "FAULT" > /tmp/keep.mode
   mongo_set_role slave
   service mongodb restart
 ;;
 *)
    echo "Usage: $0 {master|backup|fault}"
   exit 1
esac
lockfile-remove /tmp/keep.mode.lock;
exit 0
```

/etc/keepalived/mongo_switch.js

```
//
var role;
if (role != 'master' && role != 'slave') {
   throw "Role must be either master or slave";
var thisIsMaster = (role == 'master');
var status = rs.isMaster();
var thisHost = status.me;
print("Primary: " + status.ismaster + "; applying configuration ...");
var cfg = rs.conf();
for (var i = 0; i < cfg.members.length; i++) {</pre>
    var member = cfg.members[i];
   var self = (member.host == thisHost);
   if (self ^ thisIsMaster) {
       // slave
       member.priority = 1;
       member.votes = 0;
       print(member.host + ": secondary");
    } else {
       // master
       member.priority = 2;
       member.votes = 1;
       print(member.host + ": primary");
    }
}
var result = rs.reconfig(cfg, { force: !status.ismaster });
if (result.ok == 1) {
   print("Reconfiguration done");
} else {
   print(result);
```

keepalived

etc

keepalived /var/log/syslog. , keepalived , -. rsyslog:

```
nano -w /etc/rsyslog.d/10-keepalived.conf
if $programname contains 'Keepalived' then /var/log/keepalived.log
if $programname contains 'Keepalived' then ~
```

rsyslog:

```
root@swlc01-server:/# service rsyslog restart
```

keepalived -/var/log/keepalived.log /var/log/syslog.