



银河麒麟服务器迁移运维管理平台

V2.2.1 版本升级方案

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2024 年 12 月

版本变更说明

2024.11.29	V0.1	王冕		初稿编写
2024.12.10	V0.2	王冕		根据测试反馈进行优化修改
2024.12.25	V0.3	王冕		优化部分内容

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1. 单机升级

1.1 停掉平台涉及的服务，备份数据

```
# systemctl stop ismp-*  
systemctl stop postgresql.service  
rm -rf /data/pgsql/data_b  
cp -raf /data/pgsql/data /data/pgsql/data_2.1  
cp -raf /opt/kylin-manager /opt/ismp-manager //仅 V2.1 升级到
```

V2.2.1 操作

1.2 导出 2.1 版本中的数据

```
# systemctl start postgresql  
su - postgres  
pg_dump -U postgres -f ismp.sql ismp  
pg_dump -U postgres -f ismp_centos.sql ismp_centos  
pg_dump -U postgres -f ismp_monitor.sql ismp_plugin_monitor  
exit
```

1.3 执行 **install.sh** 脚本

挂载 V2.2.1 最新版本 iso 至 V2.1 同目录下，以下为/mnt

```
# cd /mnt  
# ./install.sh  
#chown root:root  
/opt/ismp-manager/html/kylin-manager/{client-last-agent,iso,kylin_e  
csm_activation.sock,script,monitor} -R  
#vim /etc/rc.local  
nohup python3 前加上 sleep 30 &&
```

```
[root@localhost repo]# cat /etc/rc.local
#!/bin/bash
# THIS FILE IS ADDED FOR COMPATIBILITY PURPOSES
#
# It is highly advisable to create own systemd services or udev rules
# to run scripts during boot instead of using this file.
#
# In contrast to previous versions due to parallel execution during boot
# this script will NOT be run after all other services.
#
# Please note that you must run 'chmod +x /etc/rc.d/rc.local' to ensure
# that this script will be executed during boot.

touch /var/lock/subsys/local
sleep 30 && nohup python3 /opt/ismg-manager/scripts/repo_mirror_sync.py > /opt/ismg-manager/logs/repo_mirror_nohup.out 2>&1 &
sh /opt/ismg-manager/html/kylin-manager/script/nacos_success.sh
```

1.4 导入 2.1 版本中的数据库 ismp

```
# systemctl stop ismp-*

# sudo -u postgres psql      //进入数据库

# drop database ismp;        //删除运维数据库

# drop database ismp_centos; //删除迁移数据库

# drop database ismp_plugin_monitor; //删除监控数据库

#\q                          //退出

# vim /data/pgsql/init.sql
```

```
SELECT 'CREATE DATABASE ismp'
      WHERE NOT EXISTS (SELECT FROM pg_database WHERE
datname = 'ismg')\gexec
DO
$do$
BEGIN
  IF NOT EXISTS ( SELECT FROM pg_roles
                  WHERE rolname = 'kylin') THEN
    CREATE USER kylin WITH ENCRYPTED PASSWORD
'Qwer!234578';
    GRANT ALL PRIVILEGES ON DATABASE ismp TO kylin;
    GRANT ALL PRIVILEGES ON DATABASE ismp TO postgres;
  END IF;
END
$do$;
```

```
SELECT 'CREATE DATABASE ismp_plugin_monitor'
      WHERE NOT EXISTS (SELECT FROM pg_database WHERE
datname = 'ismp_plugin_monitor')\gexec
DO
$do$
BEGIN
    IF NOT EXISTS ( SELECT FROM pg_roles
                    WHERE rolname = 'kylin') THEN
        CREATE USER kylin WITH ENCRYPTED PASSWORD
'Qwer!234578';
        GRANT ALL PRIVILEGES ON DATABASE
ismp_plugin_monitor TO kylin;
        GRANT ALL PRIVILEGES ON DATABASE
ismp_plugin_monitor TO postgres;
    END IF;
END
$do$;

SELECT 'CREATE DATABASE ismp_centos'
      WHERE NOT EXISTS (SELECT FROM pg_database WHERE
datname = 'ismp_centos')\gexec
DO
$do$
BEGIN
    IF NOT EXISTS ( SELECT FROM pg_roles
                    WHERE rolname = 'kylin') THEN
        CREATE USER kylin WITH ENCRYPTED PASSWORD
'Qwer!234578';
        GRANT ALL PRIVILEGES ON DATABASE ismp_centos TO
kylin;
        GRANT ALL PRIVILEGES ON DATABASE ismp_centos TO
postgres;
    END IF;
END
$do$;
```

```
# chmod 755 /data/pgsql/init.sql
# sudo -u postgres psql -f /data/pgsql/init.sql
# su - postgres

# psql -h localhost -U kylin -d ismp -f ismp.sql           //导入 2.1 的
数据

# psql -h localhost -U kylin -d ismp_centos -f ismp_centos.sql
# psql -h localhost -U kylin -d ismp_plugin_monitor -f
ismp_monitor.sql
# psql -h localhost -U kylin -d ismp_plugin_monitor -f
/mnt/KylinManager/files/ismp_monitor_v2.2_to_v2.2.1.sql //仅 v2.2
升级到 V2.2.1 需要操作

# exit
```

1.5 启动服务

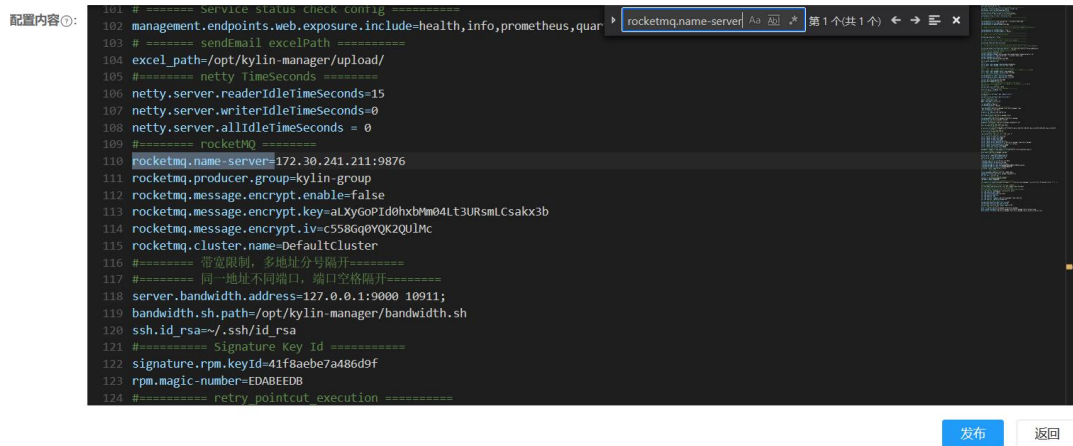
```
# systemctl restart ismp-nacos-standalone.service
systemctl restart ismp-monitor
systemctl restart ismp-gateway
systemctl restart ismp-job
systemctl restart ismp-auth
systemctl restart ismp-authentication
systemctl restart kylin-ecsm-server
```

然后在配置列表中编辑 ismp-centos 的配置，修改其中的部分配置（鼠标点击配置内容框任意处，然后使用 Ctrl+f 查找，如下图所示，若无反应，可刷新页面重新操作）[host:web:ip](#)、rocketmq 下的 [name-server](#) 为实际 ip，然后点击发布。修改完成后，重启 ismp-centos。

```
#systemctl restart ismp-centos
```

在配置列表中编辑 ismp-manager.properties 的配置，修改其中的部分配

置（鼠标点击配置内容框任意处,然后使用 **Ctrl+f** 查找,如下图所示,若无反应,可刷新页面重新操作）**host.web.ip**、**rocketmq.name-server**、**server.bandwidth.address** 为实际 ip，然后点击发布。修改完成后，重启 ismp-manager。



systemctl restart ismp-manager

注意：若监控服务启动报错按照下列命令进行操作

systemctl stop ismp-nacos-standalone

rm -rf /opt/ism-p-nacos/data/protocol/raft/*

systemctl start ismp-nacos-standalone

待 nacos 完全启动后重启监控服务：

systemctl restart ismp-monitor

systemctl restart kylin-monitor

1.6 agent 升级

在界面升级 agent，最新版本为 2.2.1-2。升级后界面状态显示断开，2 分钟后将重新显示连接，然后通过主机立即扫描系统列表的 MAC 地址、CPU 核数将出现数据。

2.分布式多机升级

注意：

- ① 升级前需将所有节点挂载 V2.2.1 的 iso，挂载点假设为/mnt；
- ② 2.1 运维后端路径为 /opt/kylin-manager/，2.2 路径为 /opt/ismp-manager/，如 2.1 升级到 2.2.1，则按照下文操作；如 2.2 升级到 2.2.1，下文中的/opt/kylin-manager/需修改为/opt/ismp-manager/；
- ③ x86 与 aarch64 软件包路径不一致，下文以 x86 为例，如 aarch64 升级根据实际软件包路径进行修改；

2.1 停止平台涉及的服务

```
systemctl stop ismp-manager
systemctl stop ismp-centos
systemctl stop ismp-nacos-standalone
systemctl stop ismp-monitor
systemctl stop ismp-gateway
systemctl stop ismp-job
systemctl stop ismp-auth
systemctl stop ismp-authentication
systemctl stop kylin-ecsm-server //与 ismp-authentication 在同一
```

节点

2.2 数据库操作

```
# su - postgres

# pg_dump -U postgres -f ismp.sql ismp //导出运维数据

# pg_dump -U postgres -f ismp_centos.sql ismp_centos //导出迁移数据
```

```
# pg_dump -U postgres -f ismp_monitor.sql ismp_plugin_monitor
//导出监控数据
```

```
# exit
```

```
# systemctl stop postgresql.service
```

```
# cp -raf /data/pgsql/data /data/pgsql/data_2.1 //2.1 或 2.2 数
数据库备份
```

```
# rm -rf /data/pgsql/data
```

```
# cp -raf /mnt/KylinManager/files/data /data/pgsql/
```

```
# chown postgres:postgres /data/pgsql/data -R && chmod 700
```

```
/data/pgsql/data -R //赋予权限
```

```
# systemctl start postgresql
```

```
# sudo -u postgres psql //进入数据库
```

```
# drop database ismp; //删除运维数据库
```

```
# drop database ismp_centos; //删除迁移数据库
```

```
# drop database ismp_plugin_monitor; //删除监控数据库
```

```
# \q //退出
```

```
# vim /data/pgsql/init.sql
```

```
SELECT 'CREATE DATABASE ismp'
      WHERE NOT EXISTS (SELECT FROM pg_database WHERE
datname = 'ismp')\gexec
DO
$do$
BEGIN
  IF NOT EXISTS ( SELECT FROM pg_roles
                  WHERE rolname = 'kylin') THEN
    CREATE USER kylin WITH ENCRYPTED PASSWORD
'Qwer!234578';
    GRANT ALL PRIVILEGES ON DATABASE ismp TO kylin;
```

```
        GRANT ALL PRIVILEGES ON DATABASE ismp TO postgres;
    END IF;
END
$do$

SELECT 'CREATE DATABASE ismp_plugin_monitor'
      WHERE NOT EXISTS (SELECT FROM pg_database WHERE
datname = 'ismp_plugin_monitor')\gexec
DO
$do$
BEGIN
    IF NOT EXISTS ( SELECT FROM pg_roles
                    WHERE rolname = 'kylin') THEN
        CREATE USER kylin WITH ENCRYPTED PASSWORD
'Qwer!234578';
        GRANT ALL PRIVILEGES ON DATABASE ismp_plugin_monitor
TO kylin;
        GRANT ALL PRIVILEGES ON DATABASE ismp_plugin_monitor
TO postgres;
    END IF;
END
$do$

SELECT 'CREATE DATABASE ismp_centos'
      WHERE NOT EXISTS (SELECT FROM pg_database WHERE
datname = 'ismp_centos')\gexec
DO
$do$
BEGIN
    IF NOT EXISTS ( SELECT FROM pg_roles
                    WHERE rolname = 'kylin') THEN
        CREATE USER kylin WITH ENCRYPTED PASSWORD
'Qwer!234578';
        GRANT ALL PRIVILEGES ON DATABASE ismp_centos TO
kylin;
```

```
GRANT ALL PRIVILEGES ON DATABASE ismp_centos TO
postgres;
END IF;
END
$do$;
```

```
# chmod 755 /data/pgsql/init.sql
```

```
# sudo -u postgres psql -f /data/pgsql/init.sql //创建数
```

数据库

```
# su - postgres
```

```
# psql -h localhost -U kylin -d ismp -f ismp.sql //导入 2.1
```

的数据

```
# psql -h localhost -U kylin -d ismp_centos -f ismp_centos.sql
```

```
# psql -h localhost -U kylin -d ismp_plugin_monitor -f
ismp_monitor.sql
```

```
# psql -h localhost -U kylin -d ismp_plugin_monitor -f
/mnt/KylinManager/files/ism_monitor_v2.2_to_v2.2.1.sql // 仅
```

V2.2 升级到 V2.2.1 需要操作

```
# exit
```

2.3 启动 **nacos** 服务，修改所有配置

由于 **nacos** 版本升级，启动前需修改配置文件 `/opt/ism-nacos/conf/application.properties` 中的数据库连接密码为 **Qwer!234578**

```
#systemctl start ismp-nacos-standalone.service
```

然后使用浏览器访问 `http://localhost:8848/nacos`，将 `localhost` 修改为实际部署 **ism-nacos** 的 IP 地址。**Nacos** 平台账号为 **nacos**，密码为 **Qwer!234578**。

进入【配置管理】-【配置列表】，依次编辑下列配置,修改完成后点击发布。

(全部修改完成以后再进行后面的部署)

ismp-gateway 中所有的 127.0.0.1 换成实际部署的 redis、rocketmq 的 ip 地址

ismp-job 中的 localhost 换成数据库 IP 地址

ismp-auth 中的 127.0.0.1、localhost 换成 redis、postgresql、ismp-job 的 ip

ismp-authentication-service 中的 127.0.0.1、localhost 换成 redis、psql、ismp-job 的 ip

ismp-centos 中的 127.0.0.1、localhost 换成 redis、job、mq、web、psql 的 ip

ismp-manager 中的 127.0.0.1、localhost 换成 redis、job、mq、web、psql 的 ip

然后重启 nacos 服务，重新加载配置(解决配置发布不生效的问题)。

```
#systemctl restart ismp-nacos-standalone.service    //单台
```

```
#systemctl restart ismp-nacos-cluster.service        //高可用
```

2.4 顺序升级、部署

挨个升级软件包，重启相应服务

2.4.1 redis 升级

```
#systemctl stop redis
```

```
#cp -ra /etc/redis /etc/redis_21
```

```
#rpm -Uvh /mnt/KylinManager/packages/ismp/redis*
```

```
#cp -ra /mnt/KylinManager/files/redis.conf /etc/redis/
#cp -ra /mnt/KylinManager/files/redis.service
/lib/systemd/system/
#systemctl daemon-reload
#systemctl restart redis
#systemctl status redis
```

2.4.2 rocketmq 升级

```
# systemctl stop mqbroker
# systemctl stop mqnamesrv
# cp -ra /opt/rocketmq /opt/rocketmq_4
# rpm -Uvh
/mnt/KylinManager/packages/ismq/rocketmq-5.3.0-1.ky10.noarch.rp
m
# openjdk=`rpm -qa|grep java-11-openjdk-11`
# alternatives --set javac /usr/lib/jvm/$openjdk/bin/javac
# systemctl daemon-reload
# systemctl start mqnamesrv
# systemctl start mqbroker
```

2.4.3 ismp-nacos

```
#cd /opt/ismq-nacos/conf/
#cp -ra application.properties application.properties.21
#rpm -Uvh /mnt/KylinManager/packages/ismq/ismq-nacos-*
#num=`grep db.url.0 application.properties -n|awk -F : '{print
$1}'`
#sed -i "$num's#localhost#1.1.1.1#g' application.properties //
```

其中 1.1.1.1 为数据库 ip

```
# openjdk=`rpm -qa|grep java-11-openjdk-11`
# alternatives --set javac /usr/lib/jvm/$openjdk/bin/javac
```

```
#systemctl daemon-reload
```

```
#systemctl restart ismp-nacos-standalone.service
```

2.4.4 ismp-gateway

```
#cp -ra /opt/ismg-gateway/bootstrap.yml
/opt/ismg-gateway/bootstrap.yml.21
```

```
#rpm -Uvh /mnt/KylinManager/packages/ismg/ismg-gateway-*
```

```
#sed -i 's#127.0.0.1#1.1.1.1#g'
```

```
/opt/ismg-gateway/bootstrap.yml //其中 1.1.1.1 为 nacos 的 ip
```

```
#systemctl daemon-reload
```

```
#systemctl restart ismp-gateway.service
```

2.4.5 ismp-job

```
#cp -ra /opt/kylin-manager/jars/job/bootstrap.properties
/opt/kylin-manager/jars/job/bootstrap.properties.21 // 仅 2.1 升级
```

2.2.1 时操作

```
#cp -ra /opt/ismg-job/bootstrap.properties
/opt/ismg-job/bootstrap.properties.22 //仅 2.2 升级 2.2.1 时操作
```

```
#rpm -Uvh /mnt/KylinManager/packages/ismg/ismg-job-*
```

```
#sed -i 's#127.0.0.1#1.1.1.1#g'
```

```
/opt/ismg-job/bootstrap.properties //其中 1.1.1.1 为 nacos 的 ip
```

```
#mkdir -p /opt/ismg-job/logs/
```

```
#chown kylin:kylin /opt/ismg-job/logs/
```

```
# systemctl daemon-reload
```

```
#systemctl restart ismp-job.service
```

2.4.6 ismp-auth

```
#cp -ra /opt/ismg-auth/bootstrap.properties
/opt/ismg-auth/bootstrap.properties.21
```

```
#rpm -Uvh /mnt/KylinManager/packages/ismg/ismg-auth-*
```

```
#sed -i 's#127.0.0.1#1.1.1.1#g'
```

/opt/ismp-auth/bootstrap.properties //其中 1.1.1.1 为 nacos 的 ip

#systemctl daemon-reload

systemctl restart ismp-auth

2.4.7 ismp-web

#cp -ra /opt/kylin-manager /opt/ismp-manager

#rpm -Uvh

/mnt/KylinManager/packages/v10sp/x86_64/gperftools-libs*

#rpm -Uvh /mnt/KylinManager/packages/v10sp/x86_64/nginx*

#rpm -Uvh /mnt/KylinManager/packages/ismp/ismp-web-*

#rpm -Uvh

/mnt/KylinManager/packages/ismp/ismp-centos-web-*

#rpm -Uvh

/mnt/KylinManager/packages/ismp/ismp-plugin-monitor-web-*

#rpm -Uvh /mnt/KylinManager/packages/ismp/ismp-doc*

#cp -ra /mnt/KylinManager/client/*.iso

/opt/ismp-manager/html/kylin-manager/iso/

#chmod 755 /opt/ismp-manager/html/kylin-manager/iso/

#cp -ra /mnt/KylinManager/scripts/register.sh

/opt/ismp-manager/html/kylin-manager/script/

#cp -ra /mnt/KylinManager/scripts/migrate_register.sh

/opt/ismp-manager/html/kylin-manager/script/

#cp -ra /mnt/KylinManager/scripts/kyreplace_install.sh

/opt/ismp-manager/html/kylin-manager/script/

#cp -ra /mnt/KylinManager/client/ismp-agent-last-*

/opt/ismp-manager/html/kylin-manager/client-last-agent/

#cp -ra

/mnt/KylinManager/client/kylin-monitor-node_exporter-latest.*

/opt/ismp-manager/html/kylin-manager/monitor/

#cp -ra /etc/nginx/nginx.conf /etc/nginx/nginx.conf.bak

```
#cp -rf /mnt/KylinManager/files/nginx.conf /etc/nginx/
vim /etc/nginx/nginx.conf
```

根据备份的 nginx.conf.bak 修改其中的 ip 地址，然后重启服务

```
# systemctl daemon-reload
#systemctl restart nginx.service
#vim /etc/exports
```

将/opt/kylin-manager 改为/opt/ismp-manager

```
#exportfs -r
```

新增镜像节点同步配置：

```
# echo "
log file = /var/log/rsyncd.log
[kylinRepository]
    port = 873
    path = /opt/ismp-manager/html/kylin-manager/repo/
    read only = yes
    list = yes
    auth users = yumrepo
    secrets file = /etc/rsyncd.secrets
" >> /etc/rsyncd.conf
# echo 'yumrepo:Qwer!234578' >> /etc/rsyncd.secrets
# chmod 600 /etc/rsyncd.secrets
# systemctl restart rsyncd.service
# systemctl enable rsyncd.service
#    cp    -rf    /mnt/KylinManager/scripts/repo_mirr_rsync.py
/opt/ismp-manager/scripts
# mkdir -p /opt/ismp-manager/logs/repo_mirr
#                                nohup                                python3
/opt/ismp-manager/scripts/repo_mirr_rsync.py                        >
/opt/ismp-manager/logs/repo_mirr/nohup.out 2>&1 &
#chmod +x /etc/rc.d/rc.local
#echo    "sleep    30    &&    nohup    python3
/opt/ismp-manager/scripts/repo_mirr_rsync.py                        >
```

```
/opt/ismmp-manager/logs/repo_mirr/nohup.out 2>&1 &" >>
/etc/rc.d/rc.local
```

2.4.8 ismp-authentication

```
#systemctl stop ismp-authentication.service
#systemctl stop kylin-ecsm-server.service
#mkdir -p /opt/ismmp-manager/html && chmod 755
/opt/ismmp-manager
```

```
#sed -i 's#kylin-manager#ismmp-manager#g'
/opt/ismmp-authentication/auth_check_mount.sh
#umount /opt/kylin-manager/html
#df -h
```

如果显示未挂载共享目录则手动挂载：

```
#mount -t nfs web_ip:/opt/ismmp-manager/html
/opt/ismmp-manager/html/
#cp -ra /opt/ismmp-authentication/bootstrap.properties
/opt/ismmp-authentication/bootstrap.properties.21
#rpm -Uvh
```

```
/mnt/KylinManager/packages/ismmp/ismmp-authentication-*
#sed -i 's#127.0.0.1#1.1.1.1#g'
/opt/ismmp-authentication/bootstrap.properties //其中 1.1.1.1 为 nacos
的 ip
```

```
#rpm -Uvh /mnt/KylinManager/packages/ismmp/libboundscheck*
#rpm -Uvh
/mnt/KylinManager/packages/ismmp/libkylin-ecsm-activation-*
```

```
#systemctl daemon-reload
#systemctl restart kylin-ecsm-server.service
#systemctl restart ismp-authentication.service
```

2.4.9 ismp-manager

```
#systemctl stop ismp-manager.service
#cp -ra /opt/kylin-manager /opt/ismmp-manager
#sed -i 's#kylin-manager#ismmp-manager#g'
/opt/ismmp-manager/auth_check_mount.sh
#umount /opt/kylin-manager/html
#df -h
```

如果显示未挂载共享目录则手动挂载：

```
#mount -t nfs web_ip:/opt/ismmp-manager/html
/opt/ismmp-manager/html/
#rpm -Uvh /mnt/KylinManager/packages/ismmp/ismmp-service-*
#sed -i 's#127.0.0.1#1.1.1.1#g'
/opt/ismmp-manager/bootstrap.properties //其中 1.1.1.1 为 nacos 的 ip
#systemctl daemon-reload
#systemctl restart ismp-manager.service
```

2.4.10 ismp-centos

```
#systemctl stop ismp-centos.service
#mkdir -p /opt/ismmp-manager/html && chmod 755
/opt/ismmp-manager
#sed -i 's#kylin-manager#ismmp-manager#g'
/opt/ismmp-centos/auth_check_mount.sh
#umount /opt/kylin-manager/html
#df -h
```

如果显示未挂载共享目录则手动挂载：

```
#mount -t nfs web_ip:/opt/ismmp-manager/html
/opt/ismmp-manager/html/
#cp -ra /opt/ismmp-centos/bootstrap.yml
/opt/ismmp-centos/bootstrap.yml.21
#rpm -e ismp-centos //V2.1 版本升级需先卸载 ismp-centos
```

```
#rpm -Uvh
/mnt/KylinManager/packages/ismp/ismp-centos-service-*
#sed -i 's#127.0.0.1#1.1.1.1#g' /opt/ismp-centos/bootstrap.yml
//其中 1.1.1.1 为 nacos 的 ip
#systemctl daemon-reload
#systemctl restart ismp-centos.service
```

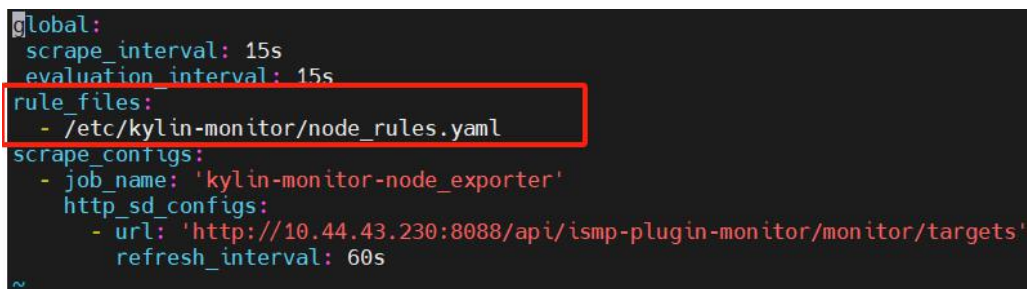
2.4.11 ismp-monitor

```
#vim /etc/kylin-monitor/kylin-monitor.yml
```

添加如下图内容

rule_files:

```
- /etc/kylin-monitor/node_rules.yml
```



```
global:
  scrape_interval: 15s
  evaluation_interval: 15s
rule_files:
  - /etc/kylin-monitor/node_rules.yml
scrape_configs:
  - job_name: 'kylin-monitor-node_exporter'
    http_sd_configs:
      - url: 'http://10.44.43.230:8088/api/ismp-plugin-monitor/monitor/targets'
        refresh_interval: 60s
```

```
#cp -ra /opt/ismp-plugin-monitor/config.yml
/opt/ismp-plugin-monitor/config.yml_2.1
#rpm -Uvh
```

```
/mnt/KylinManager/packages/ismp/ismp-plugin-monitor-2.2*
```

```
#vim /opt/ismp-plugin-monitor/config.yml
```

根据原来的文件修改配置，修改完成后重启服务

```
#systemctl daemon-reload
#systemctl restart kylin-monitor.service
#systemctl restart ismp-monitor.service
```

注意：若监控服务启动报错按照下列命令进行操作

在 nacos 节点操作：

```
systemctl stop ismp-nacos-standalone
```

```
rm -rf /opt/ismp-nacos/data/protocol/raft/*
systemctl start ismp-nacos-standalone
```

待 nacos 完全启动后重启监控服务：

```
systemctl restart ismp-monitor
systemctl restart kylin-monitor
```

2.5 agent 升级

在界面升级 agent，最新版本为 2.2.1-6。升级后界面状态显示断开，2 分钟后将重新显示连接，然后通过主机立即扫描系统列表的 MAC 地址、CPU 核数将出现数据。

3. 注意事项

单机、多机 server 端升级完成以后，若平台无法登录、报错，先查看 nacos 界面中【服务管理】->【服务列表】，所有服务(7 个)是否全部启动，如果缺少某个服务，则对应服务启动失败，根据错误日志进行解决，如无法解决，请联系本文档编写人员。

配置管理	public	服务名称	请输入服务名称	分组名称	请输入分组名称	隐藏空服务	☒	查询	创建服务
服务管理		服务名	分组名称	集群数目	实例数	健康实例数	触发保护阈值	操作	
服务列表		gateway	DEFAULT_GROUP	1	1	1	false	详情 示例代码 订阅者 删除	
订阅者列表		ismp-plugin-monitor	DEFAULT_GROUP	1	1	1	false	详情 示例代码 订阅者 删除	
权限控制		ismp-auth	DEFAULT_GROUP	1	1	1	false	详情 示例代码 订阅者 删除	
命名空间		ismp-manager	DEFAULT_GROUP	1	1	1	false	详情 示例代码 订阅者 删除	
集群管理		ismp-authentication-service	DEFAULT_GROUP	1	1	1	false	详情 示例代码 订阅者 删除	
		ismp-job	DEFAULT_GROUP	1	1	1	false	详情 示例代码 订阅者 删除	
		ismp-centos	DEFAULT_GROUP	1	1	1	false	详情 示例代码 订阅者 删除	