

一、新分支开发模型简述

两条核心分支 **develop**、**master**

- 迭代开发期间：代码提交到**develop**分支。
- 进入系统测试：**develop**分支 `merge` 到**master**分支。
- 系统测试期间：**develop**分支修复bug，自测确认没有问题后，`cherry-pick` 到**master**分支。如果 `cherry-pick` 产生冲突，需要在**develop**分支解决后重新合入**master**。

二、代码提交规范

代码提交commit信息请遵循如下信息：

1. 需求开发：**feature#** + 需求编号 + 空格 + 需求名称
2. Bug修复：**bugfix#** + Bug号 + 空格 + Bug描述
3. 其他：**change#** + 版本号 + 空格 + 关键描述

review代码到develop分支时，需要分支名，请使用命令：`git review develop`

三、cherry-pick命令使用示例

`cherry-pick` 命令用来将一个分支的指定 `commit` 合并到另一个分支上，下面以将dev分支的一个commit合并到develop分支举例：

1. 获取**dev**分支commit的 `commit id`
2. 在**develop**分支使用命令 `git cherry-pick "commit id"` 合并代码
3. 解决冲突

```
$ git log --author=guolimin.lc -3
commit 5d8ff776c725890592f289d5184f2dcdac11e998
Author: guolimin.lc <guolimin.lc@inspur.com>
Date: Wed Dec 21 09:44:17 2022 +0800

更新 itask-client 依赖版本

Change-Id: I81c6cae3efeeaf1131bdfde968de43773ac6575f

commit e8bcd71acbbeac0354f91945c40a5d25e447681 (gerrit/dev)
Author: guolimin.lc <guolimin.lc@inspur.com>
Date: Wed Dec 21 09:05:39 2022 +0800

自建线程及线程池替换为公共线程池配置

Change-Id: Ie10296548d6a7b75a919ec345f5741f65b5f329c

guolimin.lc@openstack-jn-94 MINGW64 /d/workspace/ICM-M/master/inetwork (develop)
$ git cherry-pick e8bcd71acbbeac0354f91945c40a5d25e447681
[develop aa5443996] 自建线程及线程池替换为公共线程池配置
Date: Wed Dec 21 09:05:39 2022 +0800
25 files changed, 243 insertions(+), 248 deletions(-)
create mode 100644 inetwork-service/src/main/java/com/inspur/incloud/inetwork/config/ThreadPoolConfig.java
```

如果产生冲突，git 会进入 CHERRY-PICKING 状态，如下图所示

```
guolimin.lc@openstack-jn-94 MINGW64 /d/workspace/ICM-M/master/inetwork (develop)
$ git cherry-pick e8bcd71acbbeac0354f91945c40a5d25e447681
error: could not apply e8bcd71ac... 自建线程及线程池替换为公共线程池配置
hint: after resolving the conflicts, mark the corrected paths
hint: with 'git add <paths>' or 'git rm <paths>'
hint: and commit the result with 'git commit'

guolimin.lc@openstack-jn-94 MINGW64 /d/workspace/ICM-M/master/inetwork (develop|CHERRY-PICKING)
$
```

这时我们使用 git status 命令可以查看到如下信息

```
guolimin.lc@openstack-jn-94 MINGW64 /d/workspace/ICM-M/master/inetwork (develop|CHERRY-PICKING)
$ git status
On branch develop
Your branch is ahead of 'origin/develop' by 1 commit.
  (use "git push" to publish your local commits)

You are currently cherry-picking commit e8bcd71ac.
  (fix conflicts and run "git cherry-pick --continue")
  (use "git cherry-pick --abort" to cancel the cherry-pick operation)

Changes to be committed:

  new file:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/config/ThreadPoolConfig.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/controller/security/group/SecurityGroupController.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/rabbitMQ/vdc/VdcMsgConsumerImpl.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/direct/connect/dc/util/DirectConnectIdNameMapHandler.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/direct/connect/gateway/DcGatewayServiceImpl.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/dns/dns/DnsServiceImpl.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/dns/dns/util/DnsIdNameMapHandler.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/firewall/firewall/OpenstackFirewallServiceImpl.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/floating/ip/impl/OpenstackFloatingIpServiceImpl.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/floating/ip/util/FloatingIpIdNameMapHandler.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/load/balancer/balancer/BalancerServiceImpl.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/load/balancer/health/monitor/HealthMonitorServiceImpl.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/load/balancer/pool/member/PoolMemberServiceImpl.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/nat/util/NatIdNameMapHandler.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/net/network/NetService.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/peering/util/PeeringIdNameMapHandler.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/router/RouterService.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/security/group/SecurityGroupServiceImpl.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/security/group/openstack/OpenstackSecurityGroupServiceImpl.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/security/group/rule/SecurityGroupRuleService.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/security/group/util/SgIdNameMapHandler.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/vpc/util/VpcIdNameMapHandler.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/vpn/endpointGroup/util/EndpointIdNameMapHandler.java
  modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/vpn/ipsecSite/VpnIpsecSiteService.java

Unmerged paths:
  (use "git add <file>..." to mark resolution)

  both modified:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/vpc/VpcService.java
```

其中红色的文件就是冲突文件，需要开发人员手动解决

冲突解决完毕后，使用命令 `git add` 命令通知 `git` 冲突已经解决

```
guolin@openstack-jn-94 MINGW64 /d/workspace/ICM-M/master/inetwork (develop|CHERRY-PICKING)
$ git add .

guolin@openstack-jn-94 MINGW64 /d/workspace/ICM-M/master/inetwork (develop|CHERRY-PICKING)
$ git status
On branch develop
Your branch is ahead of 'origin/develop' by 1 commit.
  (use "git push" to publish your local commits)

You are currently cherry-picking commit e8bcd71ac.
  (all conflicts fixed: run "git cherry-pick --continue")
  (use "git cherry-pick --abort" to cancel the cherry-pick operation)

Changes to be committed:
  new file:   inetwork-service/src/main/java/com/inspur/incloud/inetwork/config/ThreadPoolConfig.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/controller/security/group/SecurityGroupController.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/rabbitmq/vdc/VdcMsgConsumerImpl.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/direct/connect/dc/util/DirectConnectIdNameMapHandler.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/direct/connect/gateway/DcGatewayServiceImpl.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/dns/dns/DnsServiceImpl.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/dns/dns/util/DnsIdNameMapHandler.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/firewall/firewall/OpenstackFirewallServiceImpl.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/floating/ip/impl/OpenstackFloatingIpServiceImpl.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/floating/ip/util/FloatingIpIdNameMapHandler.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/load/balancer/balancer/BalancerServiceImpl.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/load/balancer/health/monitor/HealthMonitorServiceImpl.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/load/balancer/pool/member/PoolMemberServiceImpl.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/nat/util/NatIdNameMapHandler.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/net/network/NetService.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/peering/util/PeeringIdNameMapHandler.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/router/RouterService.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/security/group/SecurityGroupServiceImpl.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/security/group/openstack/OpenstackSecurityGroupServiceImpl.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/security/group/rule/SecurityGroupRuleService.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/security/group/util/SgIdNameMapHandler.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/vpc/VpcService.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/vpc/util/VpcIdNameMapHandler.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/vpn/endpointGroup/util/EndpointGroupIdNameMapHandler.java
  modified:  inetwork-service/src/main/java/com/inspur/incloud/inetwork/service/vpn/ipsecSite/VpnIpsecSiteService.java

guolin@openstack-jn-94 MINGW64 /d/workspace/ICM-M/master/inetwork (develop|CHERRY-PICKING)
$
```

然后再使用命令 `git cherry-pick --continue` 完成代码合并

```
guolin@openstack-jn-94 MINGW64 /d/workspace/ICM-M/master/inetwork (develop|CHERRY-PICKING)
$ git cherry-pick --continue
[develop 41a1f0b30] 自建线程及线程池替换为公共线程池配置
Date: Wed Dec 21 09:05:39 2022 +0800
25 files changed, 243 insertions(+), 249 deletions(-)
create mode 100644 inetwork-service/src/main/java/com/inspur/incloud/inetwork/config/ThreadPoolConfig.java

guolin@openstack-jn-94 MINGW64 /d/workspace/ICM-M/master/inetwork (develop)
$
```

最后使用命令 `git review develop` 提交该commit到develop分支即可

参考资料：

1. [git cherry-pick 教程](#)