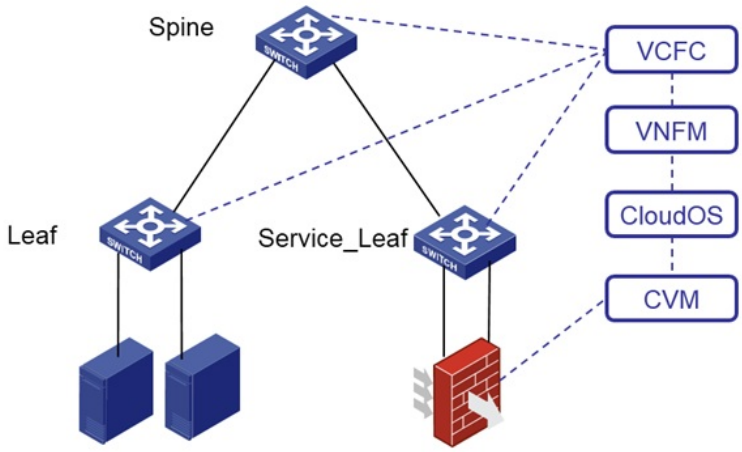
某局点VNFM组件连接CloudOS失败案例分析

VCFC VNF Manage 服务链 **网络蝎子精** 2019-06-09 发表

组网及说明

标准PBR服务链组网，如下图所示：



问题描述

现场查看VCFC的系统日志，发现VNFM组件一直报连接某个主机失败，错误原因是连接该主机的5000端口号被拒绝。如下图所示：

```
VNFM    vnfm    CONNECT_HOST_FAILED    Failed to connect to host 172.18.68.4, case: Connect to 172.18.68.4:5000 [/172.18.68.4] failed: Connection refused
VNFM    vnfm    CONNECT_HOST_FAILED    Failed to connect to host 172.18.68.4, case: Connect to 172.18.68.4:5000 [/172.18.68.4] failed: Connection refused
VNFM    vnfm    CONNECT_HOST_FAILED    Failed to connect to host 172.18.68.4, case: Connect to 172.18.68.4:5000 [/172.18.68.4] failed: Connection refused
VNFM    vnfm    CONNECT_HOST_FAILED    Failed to connect to host 172.18.68.4, case: Connect to 172.18.68.4:5000 [/172.18.68.4] failed: Connection refused
VNFM    vnfm    CONNECT_HOST_FAILED    Failed to connect to host 172.18.68.4, case: Connect to 172.18.68.4:5000 [/172.18.68.4] failed: Connection refused
VNFM    vnfm    CONNECT_HOST_FAILED    Failed to connect to host 172.18.68.4, case: Connect to 172.18.68.4:5000 [/172.18.68.4] failed: Connection refused
VNFM    vnfm    CONNECT_HOST_FAILED    Failed to connect to host 172.18.68.4, case: Connect to 172.18.68.4:5000 [/172.18.68.4] failed: Connection refused
VNFM    vnfm    CONNECT_HOST_FAILED    Failed to connect to host 172.18.68.4, case: Connect to 172.18.68.4:5000 [/172.18.68.4] failed: Connection refused
VNFM    vnfm    CONNECT_HOST_FAILED    Failed to connect to host 172.18.68.4, case: Connect to 172.18.68.4:5000 [/172.18.68.4] failed: Connection refused
VNFM    vnfm    CONNECT_HOST_FAILED    Failed to connect to host 172.18.68.4, case: Connect to 172.18.68.4:5000 [/172.18.68.4] failed: Connection refused
VNFM    vnfm    CONNECT_HOST_FAILED    Failed to connect to host 172.18.68.4, case: Connect to 172.18.68.4:5000 [/172.18.68.4] failed: Connection refused
VNFM    vnfm    CONNECT_HOST_FAILED    Failed to connect to host 172.18.68.4, case: Connect to 172.18.68.4:5000 [/172.18.68.4] failed: Connection refused
```

经了解，该主机IP是现场CloudOS产品的IP地址，用作服务链业务。

过程分析

经确认，CloudOS的5000端口号是该产品作为内部认证的端口号，是不对外开放连接的。查看操作日志，发现现场通过VNFM组件添加了VNF主机。该操作使VNFM组件通过5000端口号与CloudOS建立连接，如下图所示：

```
[2019-3-29 08:39:24:179]    sdn    10.110.1.2    VNFM    SUCCESS    Added host:{
    "name":"cloudos",
    "ip":"172.18.68.4",
    "user":"admin"
    "tenant":"admin"
    "port":"5000"
    "domain":"default"
    "url_type":"public"
    "identify_version":"V3"
}
```

目前弱控PBR服务链方案是通过9000端口号与CloudOS建立连接的，并非5000端口。因为现场使用了5000端口号，且5000端口号是不被开放连接的，所以导致出现了连接失败报错。

解决方法

在VCFC的“VNF管理/主机信息”路径下，进行”添加主机操作“时，配置使用9000端口号与CloudOS建立连接，如下图所示：

添加主机
* 名称
cloudos
* IP地址
172.18.68.4
* 用户名
admin
* 密码
*****
* 租户
admin
* 端口号
5000
* 认证版本
V2
* Domain
default
* URL类型
public
确定
取消