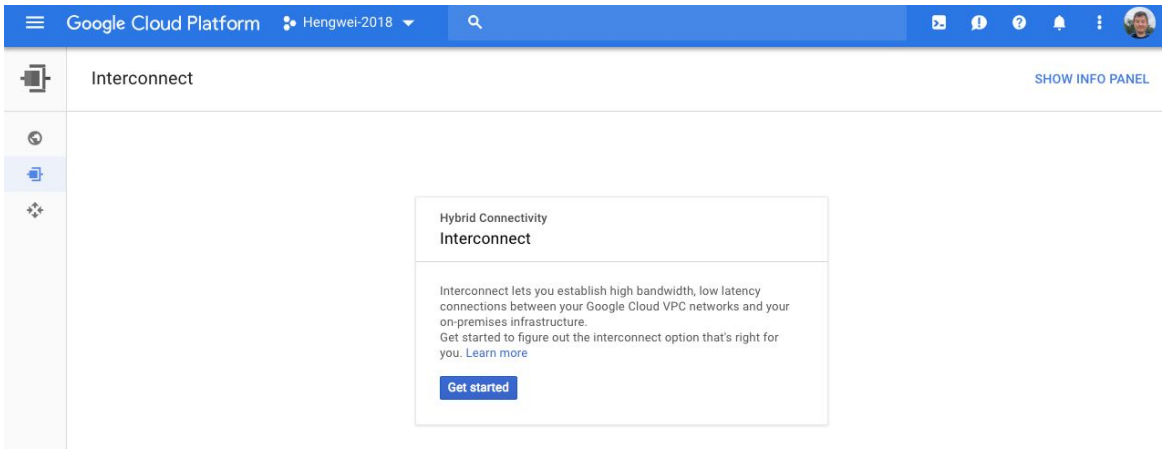
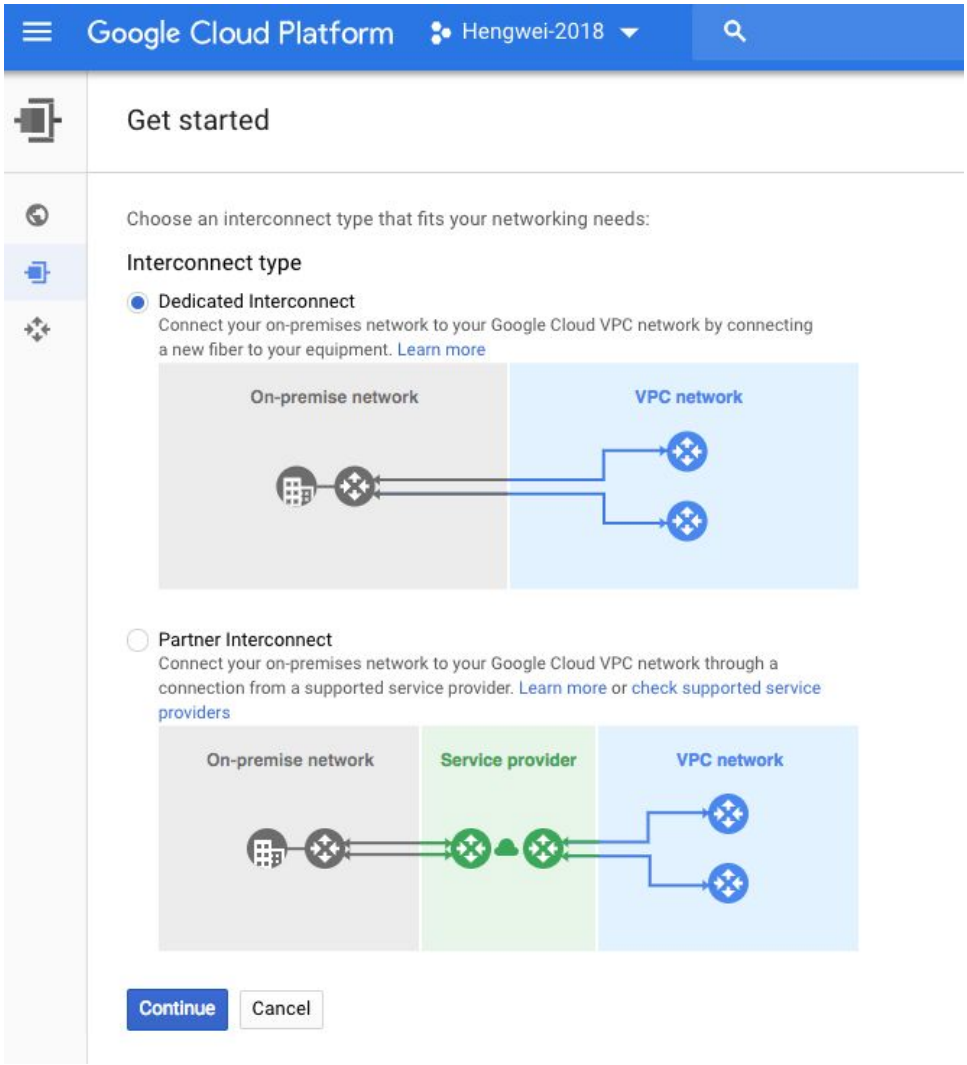
# Partner Interconnect配置过程的状态记录

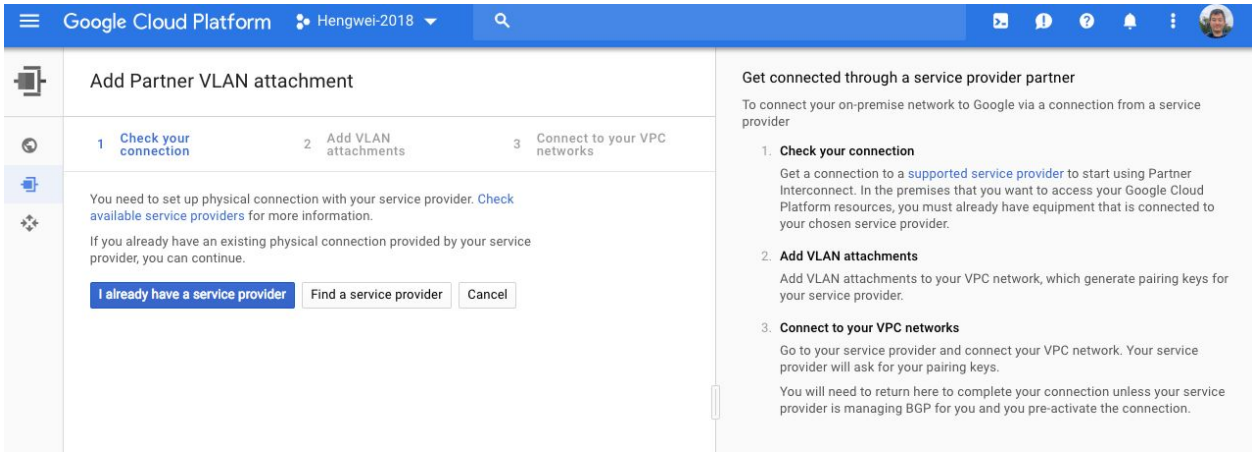
1 在Google Cloud Console中点击Interconnect， 点击Get Started



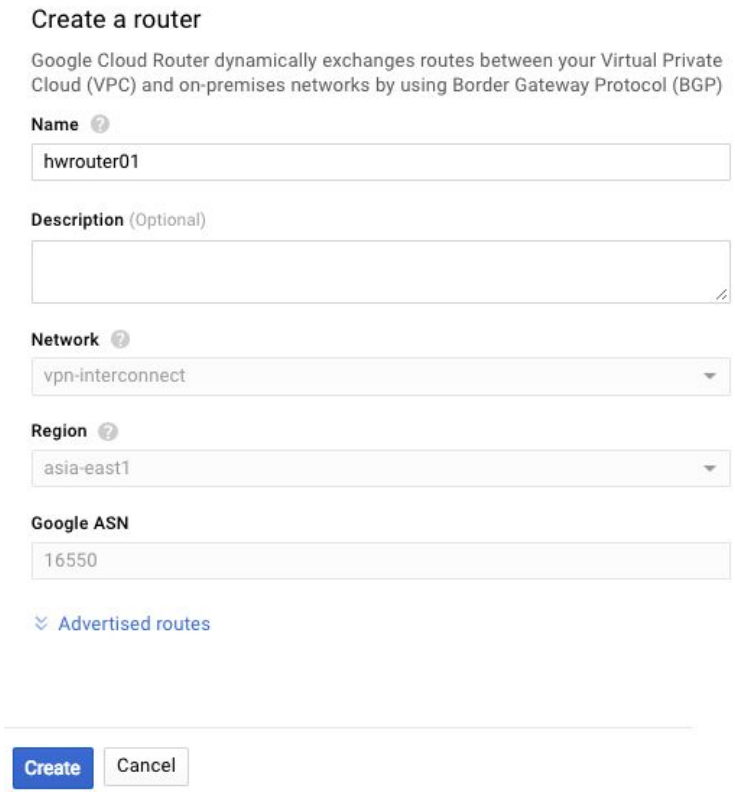

2 选择Partner Interconnect



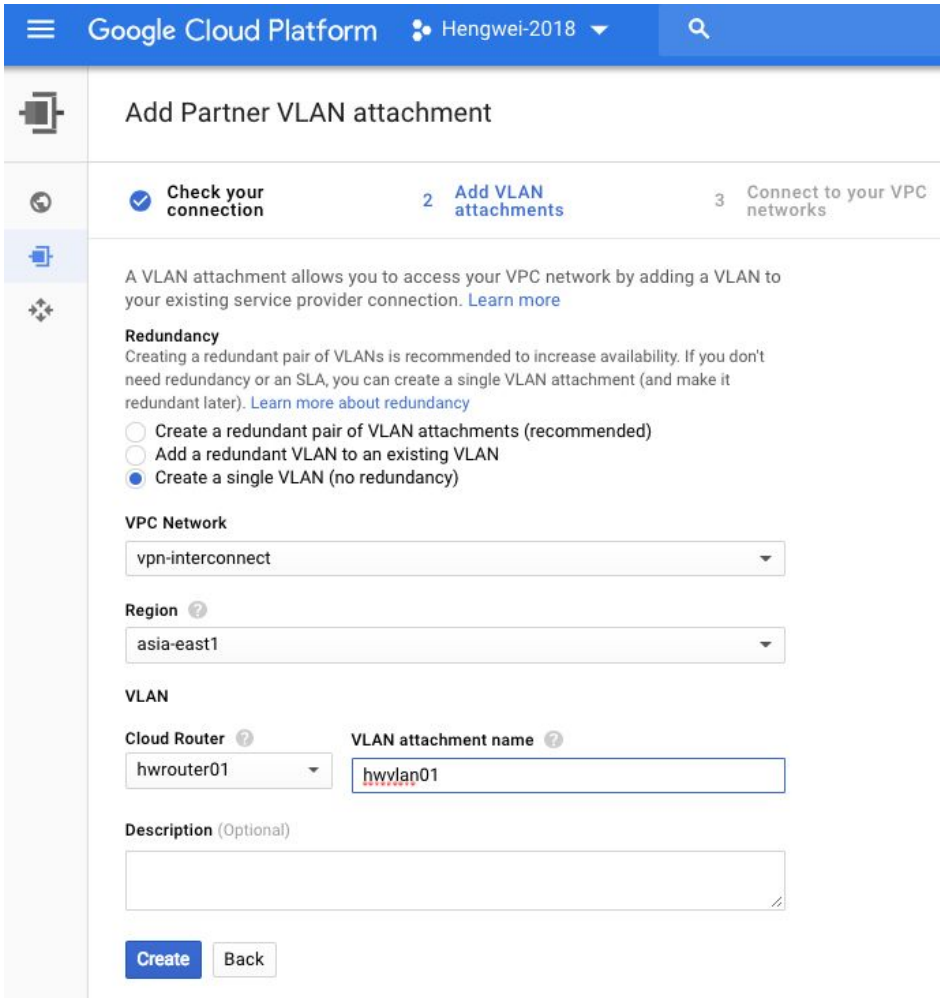
3. 选择I already have a service provider



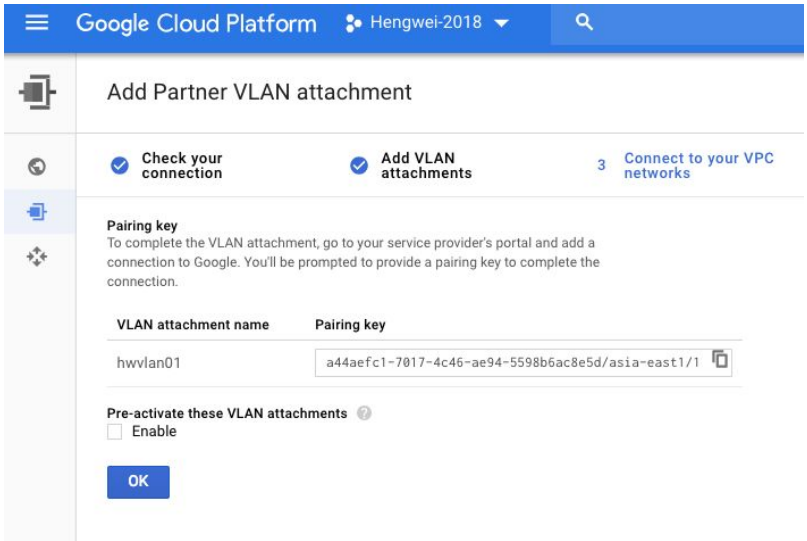

4. 在add partner attachment中，先选择cloud router，创建一个新的cloud router，注意这里AS号码已经自动为16550



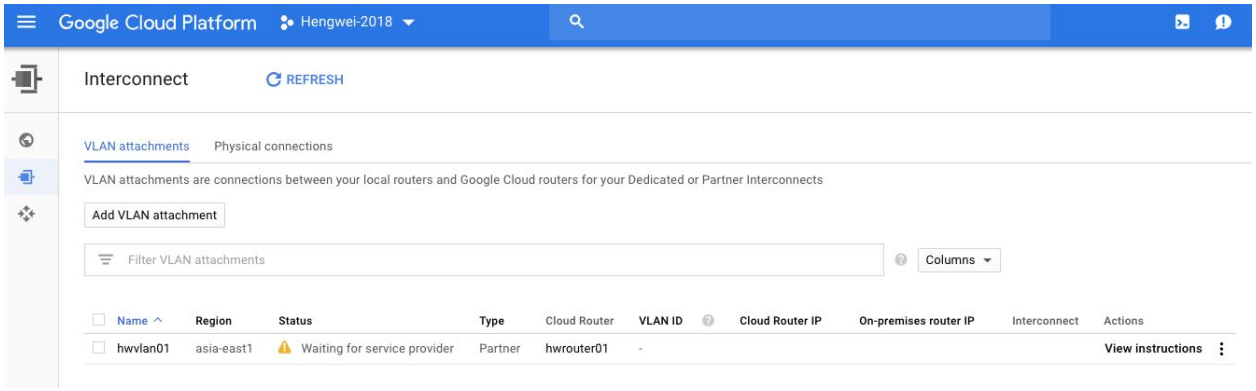

5. 完成add partner attachment的设置，根据申请线路的情况，选择冗余的连接，或没有冗余的连接。另外这里的vlan attachment name不是vlan id，只是一个标示



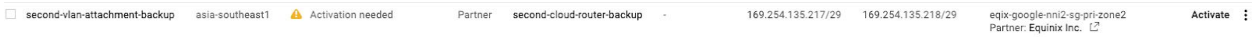

6. 完成创建后，生成Pairing Key。把这个Pairing key交给运营商做施工。如果是L2的线路，这里的Pre-active的选项不需要勾选，如果是L3的线路，运营商给配置BGP，这里的Pre-Active的选项需要选择



7. 此时，可以看到Interconnect的状态是：waiting for service provider



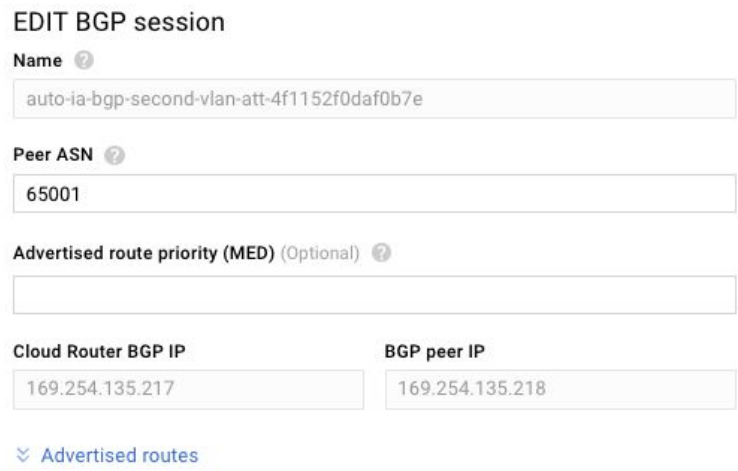

8. 运营商施工完成后状态变成Activation needed




点击后面的Activate，进行激活。

9. 激活后，状态变成需要配置BGP，可以看到，状态改变成了“需要BGP配置”。可以看到Cloud Router的IP地址和IDC的IP地址在一个169.254.x.x/29的link local的地址。同时可以看到运营商partner的详细互联信息，在哪个zone，和哪个nni：


10. 点击“配置BGP”，进入BGP配置页面，输入Peer ASN号码。如果对MED值有修改的需求，在Advertised route priority(MED)的值进行修改：




11. 配置完成后，如果IDC内的路由器配置和云端出现不匹配，云端状态会出现“已停止”

11. IDC内的路由器配置成功后，Interconnect的状态会变成运行中：

| 名称 | 区域 | 状态 | 类型 | Cloud Router | VLAN ID | Cloud Router IP | 内部部署式路由器 IP | 互连 | 操作 |
|---|---|---|---|---|---|---|---|---|---|
| [redacted] | asia-southeast1 | 正在等待服务提供商 | 合作伙伴 | primary | - | | | | 查看说明 |
| [redacted] | asia-southeast1 | 运行中 | 合作伙伴 | second- | - | 169.254. /29 | 169.254. /29 | eqix-google-nni4-sg-sec-zone2<br>合作伙伴：Equinix Inc. | |

12. 下面是Cisco和Juniper的Sample配置

```
router bgp 64500
 bgp graceful-restart
 neighbor 169.254.180.81 description "bgp to my-router in us-central1"
 neighbor 169.254.180.81 remote-as 65200
 neighbor 169.254.180.81 local-as 65201
 neighbor 169.254.180.81 ebgp-multihop 4
 neighbor 169.254.180.81 update-source Port-channel22.1000
 neighbor 169.254.180.81 route-map SEND-TO-GCP out
!
interface GigabitEthernet0/0/0
 channel-group 22 mode active
!
interface Port-channel22.1
 description "Untagged VLAN for testing"
 encapsulation dot1Q 1 native
 ip address 169.254.202.254 255.255.255.252
!
interface Port-channel22.1000
 description "my-attachment to my-router in us-central1"
 encapsulation dot1Q 1000
 ip address 169.254.180.82 255.255.255.248
 ip mtu 1440
!
```

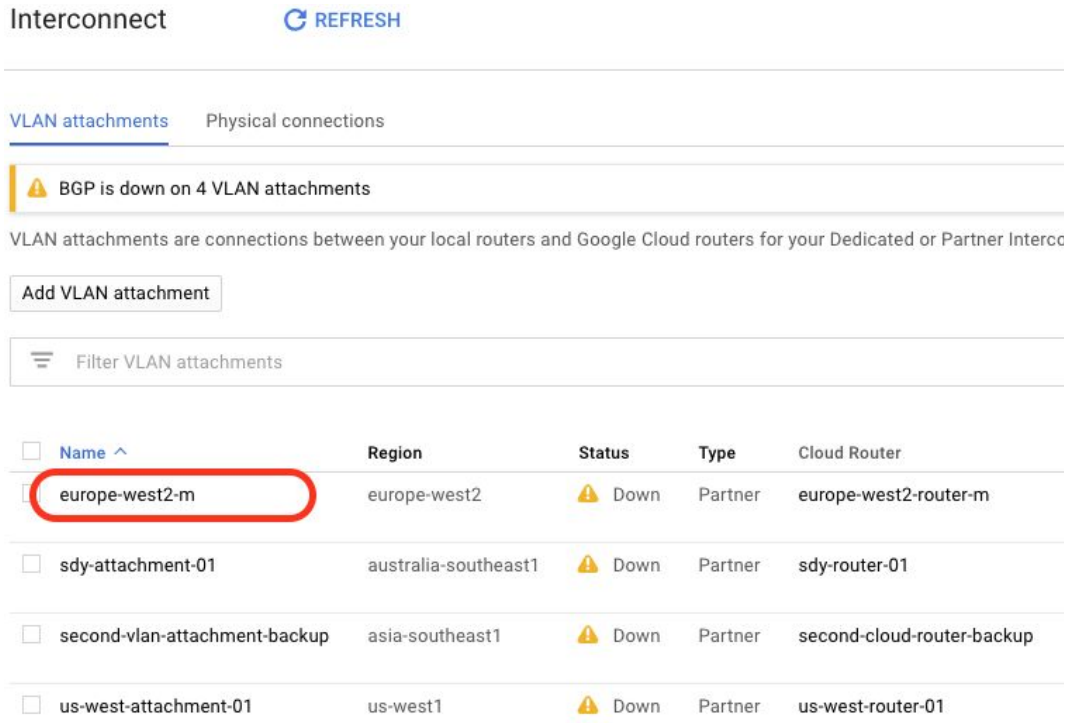
```
interface ae20 {
  description "Cloud Interconnect - myinterconnect";
  flexible-vlan-tagging;
  native-vlan-id 1;
  aggregated-ether-options {
    lacp {
      active;
    }
  }
  unit 0 {
    description "Untagged VLAN for testing"
    vlan-id 1;
    family inet {
      address 169.254.202.254/30;
    }
  }
  unit 1 {
    description "myattachment to myrouter in us-central1"
    vlan-id 1000;
    family inet {
      address 169.254.180.82/29;
      mtu 1440;
    }
  }
}

routing-options {
  graceful-restart;
}

protocols bgp {
  group test-interconnect {
    type external;
    multihop {
      ttl 4;
    }
    graceful-restart;
    hold-time 60;
    local-address 169.254.180.82;
    export [ MY_ROUTES ];
    local-as 65201;
    neighbor 169.254.180.81 {
      peer-as 65200;
    }
  }
}
```

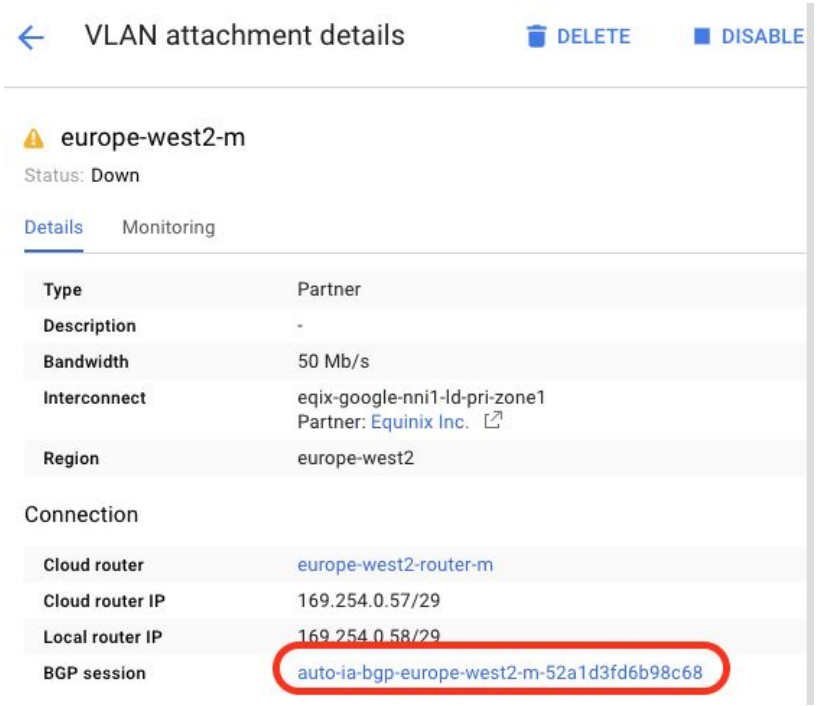
13. 需要注意的事项

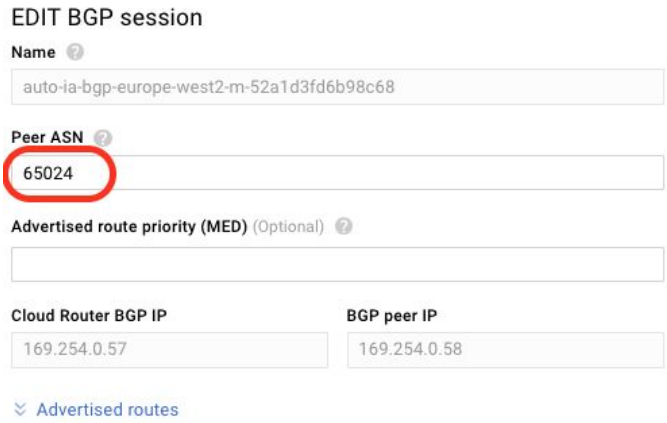
云端路由器和IDC路由器的互联地址为169.254.x.x，这个169.254.x.x的地址，在路由器上是可以ping通的。

14. 更改customer BGP AS number

更改Customer BGP AS number的位置比较隐蔽，具体修改方法如下：




EDIT BGP session
Name
auto-ia-bgp-europe-west2-m-52a1d3fd6b98c68
Peer ASN
65024
Advertised route priority (MED) (Optional)
Cloud Router BGP IP
169.254.0.57
BGP peer IP
169.254.0.58
Advertised routes