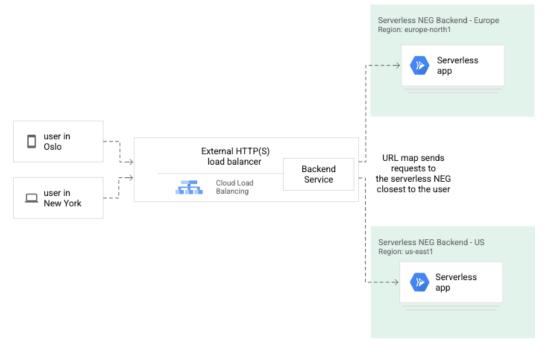
通过Serverless NEG支持跨region的Cloud Run服务



官方的文档链接

https://cloud.google.com/load-balancing/docs/negs/setting-up-serverless-negs#multi_region_lb

创建CloudRun服务

1. 按照下面的示例程序, 部署两个helloworld应用,分别选择us-west1和us-east1作为region https://cloud.google.com/run/docs/quickstarts/build-and-deploy/python#writing

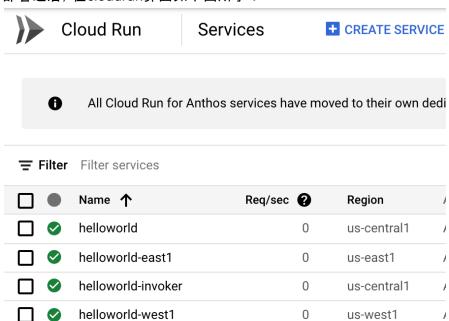
```
#修改源码中不同的region的返回结果,以区分在不同region部署的应用
import os
from flask import Flask
app = Flask(__name__)
@app.route("/")
def hello_world():
    name = os.environ.get("NAME", "World")
    return "Hello east {}!".format(name) #此处增加region信息

if __name__ == "__main__":
    app.run(debug=True, host="0.0.0.0", port=int(os.environ.get("PORT", 8080)))
gcloud run deploy --region us-east1
```

#同理修改us-west的代码,然后部署cloud run

gcloud run deploy --region us-west1

2. 部署之后, 在cloudrun界面如下图所示:



创建http(s) load balancer

Create a load balancer

HTTP(S) Load Balancing

Layer 7 load balancing for HTTP and HTTPS applications Learn more ☑

Configure

HTTP LB HTTPS LB (includes HTTP/2 LB)

Options

Internet-facing or internal Single or multi-region

START CONFIGURATION

Create a load balancer

Please answer a few questions to help us select the right load balancing type for your application

Internet facing or internal only

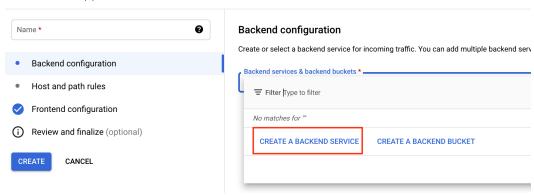
Do you want to load balance traffic from the Internet to your VMs or only between VMs in your network?

From Internet to my VMs

Only between my VMs

CONTINUE

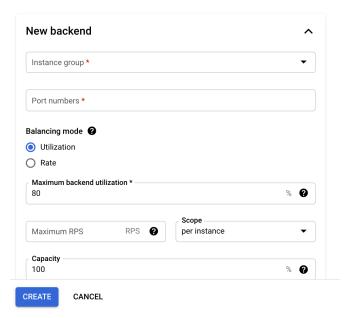
← New HTTP(S) load balancer



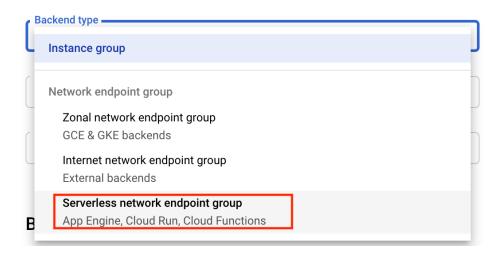
● 创建backend service



Backends

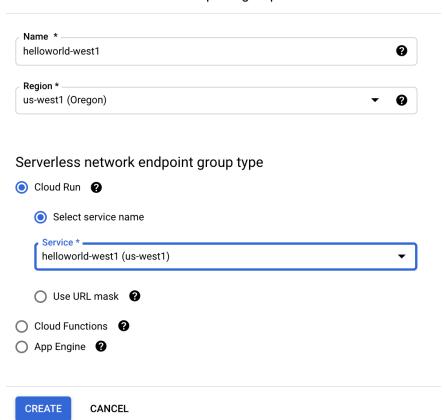


• Backend type选择 serverless network endpoint group



 Backend, New Backend中创建一个serverless neg,并选中指定region的cloudrun服务 helloworld-west1,点击Create,再点击Done.

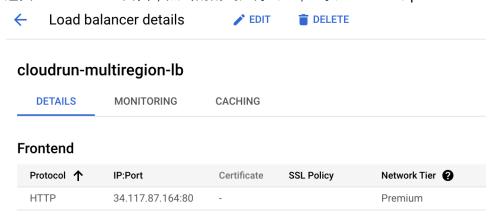
Create Serverless network endpoint group



- 同样的步骤创建第二个cloudrun服务 helloworld-east1。
- 给load balancer起一个名字,如cloudrun-multiregion-lb



● 返回load balancer页面,点击刚刚创建好的lb,查找frontend的ip



验证

● 创建两台不同region的VM,ssh进入VM后,访问LB的地址

```
liufan@us-east1-test:~$ curl http://34.117.87.164/
Hello east World!liufan@us-east1-test:~$
liufan@us-west1-test:~$ curl -s http://34.117.87.164/
Hello west World!liufan@us-west1-test:~$
```

● 可以看见当从us-east1访问时返回的是在较近region的cloudrun服务helloworld-east