

LOAD BALANCER

Creating a two tier load balancer application for showcasing use of internal and external load balancer

```

30 }
31 }
32
33 # Create resource group
34 create_resource "az group create \
35     --name $RESOURCE_GROUP \
36     --location $LOCATION \
37     --output table" "Resource Group"
38
39 # Create VNet and subnets
40 create_resource "az network vnet create \
41     --resource-group $RESOURCE_GROUP \
42     --name $VNET_NAME \
43     --address-prefix 10.0.0.0/16 \
44     --subnet-name $SUBNET_FRONTEND \
45     --subnet-prefix 10.0.1.0/24 \
46     --output table" "VNet and Frontend Subnet"
47
48 create_resource "az network vnet subnet create \
49     --resource-group $RESOURCE_GROUP \
50     --vnet-name $VNET_NAME \
51     --name $SUBNET_BACKEND \
52     --address-prefix 10.0.2.0/24 \
53     --output table" "Backend Subnet"
54
55 create_resource "az network vnet subnet create \
56     --resource-group $RESOURCE_GROUP \
57     --vnet-name $VNET_NAME \
58     --name $SUBNET_DB \
59     --address-prefix 10.0.3.0/24 \
60     --output table" "DB Subnet"
61
62 # Create NSG
63 create_resource "az network nsg create \
64     --resource-group $RESOURCE_GROUP \
65     --name $NSG_NAME \
66     --output table" "NSG"
67
68 # Allow HTTP traffic

```

Using the script in the
github you can provision
all the things needed for
This two tier application

```
server {  
    listen 80;  
    server_name localhost;  
  
    location / {  
        add_header X-Frontend-Server "Frontend $HOSTNAME" always;  
        proxy_pass http://10.0.2.4; # Internal Load Balancer IP  
        proxy_set_header Host $host;  
        proxy_set_header X-Real-IP $remote_addr;  
    }  
  
    location /frontend {  
        return 200 "Frontend Server: $HOSTNAME\n";  
    }  
}
```

Nginx for
setting up
proxy at
external vm

[illegible]

```
"/etc/nginx/sites-available/default" 17L, 405B
```



external-lb | Frontend IP configuration



Load balancer



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- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings

Frontend IP configuration

Backend pools

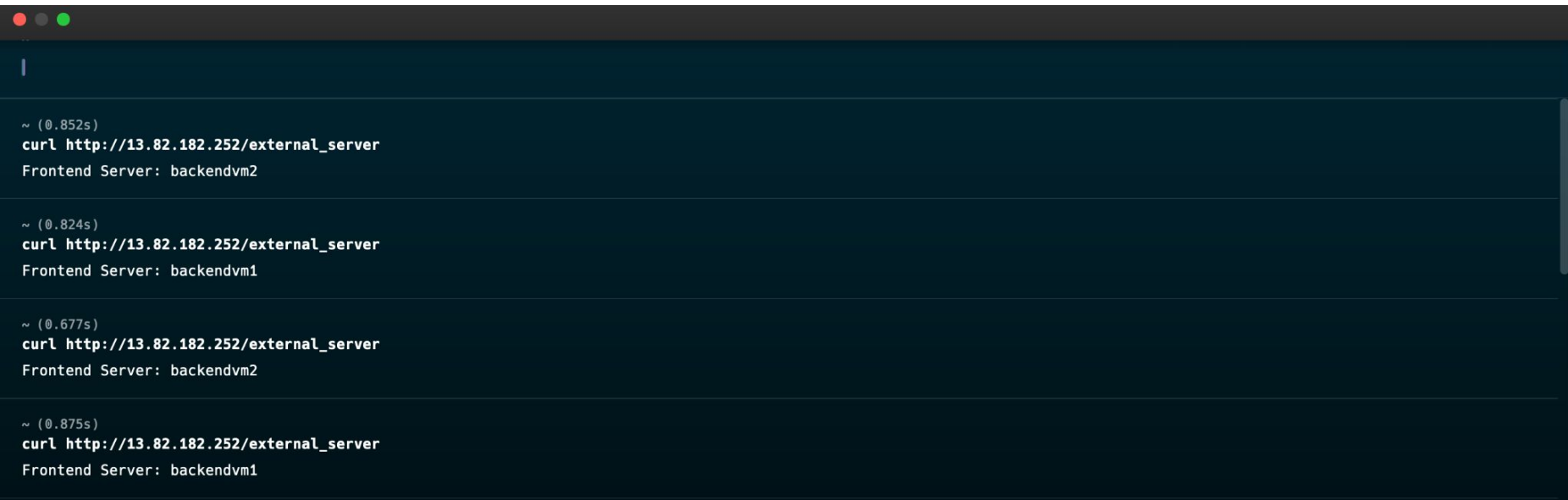
- Health probes
- Load balancing rules
- Inbound NAT rules
- Outbound rules
- Properties
- Locks
- Monitoring
- Insights
- Diagnostic settings
- Logs

Filter by name...

Name ↑↓	IP address ↑↓	Rules count ↑↓
frontendip	13.82.182.252 (lb-public-ip)	1



External load balancer ip



```
|  
  
~ (0.852s)  
curl http://13.82.182.252/external_server  
Frontend Server: backendvm2  
  
~ (0.824s)  
curl http://13.82.182.252/external_server  
Frontend Server: backendvm1  
  
~ (0.677s)  
curl http://13.82.182.252/external_server  
Frontend Server: backendvm2  
  
~ (0.875s)  
curl http://13.82.182.252/external_server  
Frontend Server: backendvm1
```

Accessing external vm for checking if
working or not

Welcome to Backend Server: dbVM1

Welcome to Backend Server: dbVM2

Demonstration of working of both
internal vm inside internal load
balancer

THANK YOU