

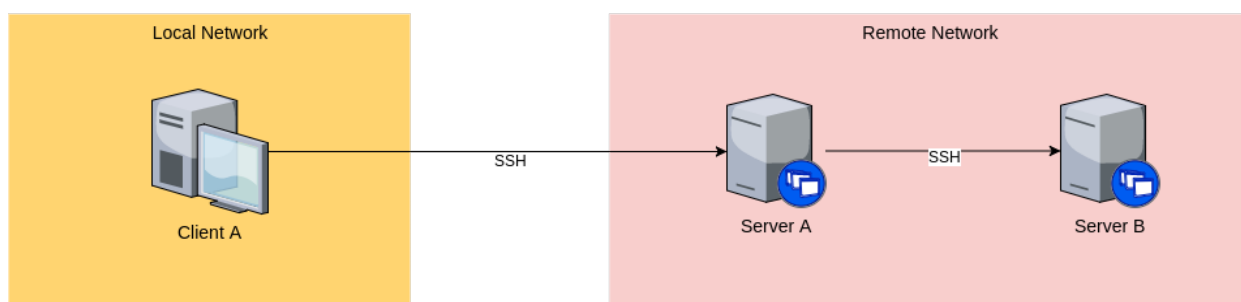
# Intelie - Challenge Remote Access

Delivery name	Challenge Remote Access		
Request by	Thamires	Date by	24/10/2019
Request number	Version 1	Name of request	Accessing a remote service
Change description	In this challenge, you will propose a way to access a service running on a remotely unreachable port.		
Change reason	We need to access, from Client A and using HTTP, a service running on port 8000 of server B.		
Impact of change	Impact low, only access a service running of server B		
Proposed action	Access a service running in the remotely blocked port 8000 of server A.		
Responsible by	Marcus Silva		

## Change description

The only allowed connection between Client A and Server A is via SSH. The only allowed connection between Server A and Server B is via SSH. We need to access, from Client A and using HTTP, a service running on port 8000 of Server B. Notes and constraints: There is no direct route from Client A to Server B, and no practical way to build one. Imagine the following scenario as example: Server B belongs to a customer internal datacenter, and we were provided with a VPN that allows access to Server A SSH port only. There is another service running on port 8000 of Server A, we must not cause impacts on this one

### Example Network Architecture



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## Procedure

### Server A

- 1 - Open a SSH terminal
- 2 - Login as any user on server A machine
- 3 - Execute the comand below (Verify to the port 8000 is using by another application)  
**netstat -an | grep 8000**

```
➔ ~ netstat -an | grep 8000
de28a9479f49dd6d stream    0      0      0 de28a9479f49db15      0
    0 /var/folders/k0/thwp5z394vgdcky1bw0cpz980000gn/T/iTerm2-temp-socket.De2Xru
de28a947a1e0ef5d stream    0      0 de28a947a45cb1ad      0      0
    0 /var/folders/k0/thwp5z394vgdcky1bw0cpz980000gn/T/.com.google.Chrome.TiuMbQ/SingletonSocket
```

- 4 - Execute the comand below (The command will give you the IP number of machine server A)  
**ifconfig |grep -e netmask -e broadcast**

```
➔ ~ ifconfig |grep -e netmask -e broadcast
inet 127.0.0.1 netmask 0xff000000
inet 192.168.1.110 netmask 0xffffffff00 broadcast 192.168.1.255
inet 192.168.1.104 netmask 0xffffffff00 broadcast 192.168.1.255
inet 169.254.194.151 netmask 0xffff0000 broadcast 169.254.255.255
```

### Server B

- 1 - Open a SSH terminal
- 2 - Login as any user on server B machine
- 3- Execute the comand below (The command will give you the IP number of machine server B)  
**ifconfig |grep -e netmask -e broadcast**

```
➔ ~ ifconfig |grep -e netmask -e broadcast
inet 127.0.0.1 netmask 0xff000000
inet 192.168.1.110 netmask 0xffffffff00 broadcast 192.168.1.255
inet 192.168.1.104 netmask 0xffffffff00 broadcast 192.168.1.255
inet 169.254.194.151 netmask 0xffff0000 broadcast 169.254.255.255
```

### Client A

- 1 - Open a SSH terminal
- 2 - Login as any user on Client A machine

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3- Execute the comand below (The command will create to port foward to machine server A)

**ssh -g -p 22 -L 8888:192.168.1.104:8888 192.168.1.104 &**

4- Insert the user password

5- Execute the comand below (The command will create to port foward to machine server B)

**ssh -g -p 22 -L 8888:192.168.1.110:8000 192.168.1.110 &**

6 - Insert the user password

### IMPORTANT

**ATTENTION - Rollback procedure**

**Not apply for this activity.**