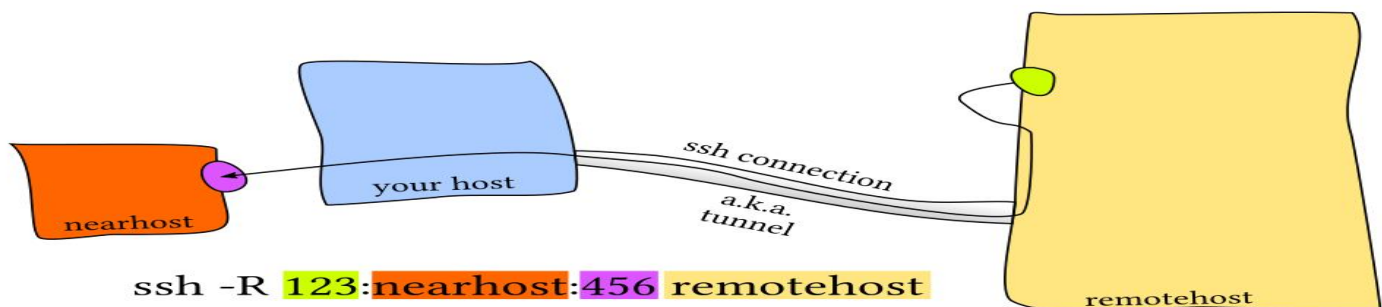
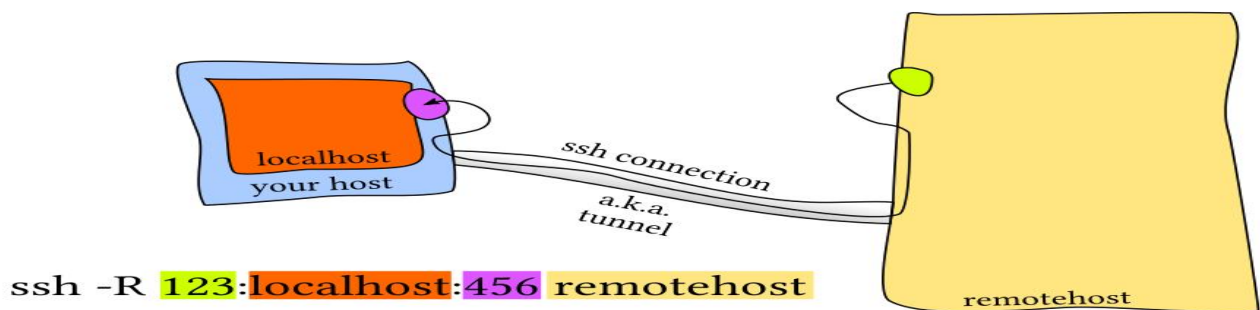
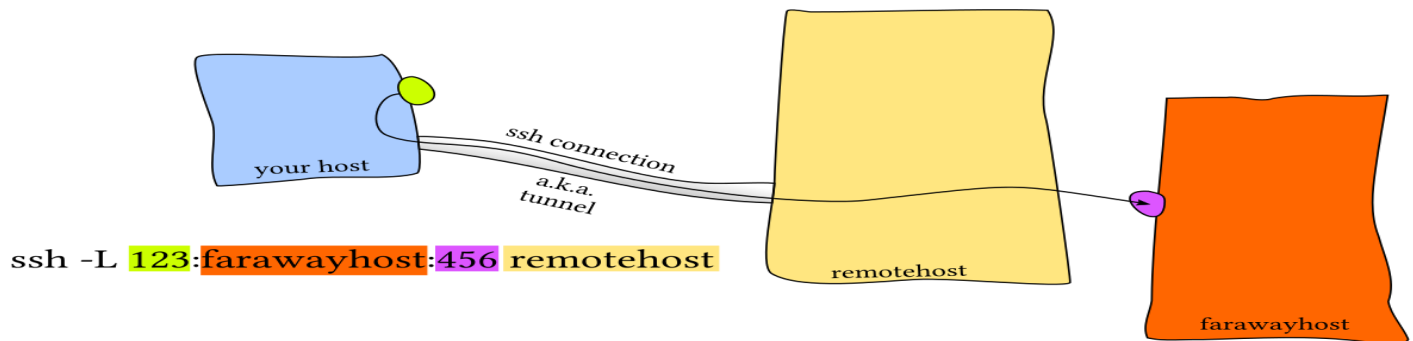
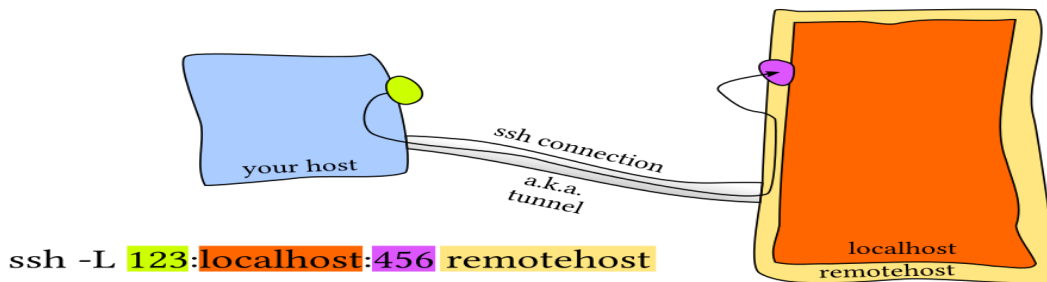


Reverse SSH Tunnel

The machine, where the ssh tunnel command is typed is called »**your host**«.



Introduction

1. **local: -L** Specifies that the given port on the local (client) host is to be forwarded to the given host and port on the remote side.
ssh -L sourcePort:forwardToHost:onPort connectToHost means: connect with ssh to connectToHost, and forward all connection attempts to the **local** sourcePort to port onPort on the machine called forwardToHost, which can be reached from the connectToHost machine.
2. **remote: -R** Specifies that the given port on the remote (server) host is to be forwarded to the given host and port on the local side.
ssh -R sourcePort:forwardToHost:onPort connectToHost means: connect with ssh to connectToHost, and forward all connection attempts to the **remote** sourcePort to port onPort on the machine called forwardToHost, which can be reached from your local machine.

Additional options

- -f tells ssh to background itself after it authenticates, so you don't have to sit around running something on the remote server for the tunnel to remain alive.
- -N says that you want an SSH connection, but you don't actually want to run any remote commands. If all you're creating is a tunnel, then including this option saves resources.
- -T disables pseudo-tty allocation, which is appropriate because you're not trying to create an interactive shell.

Your example

The third image represents this tunnel. **But** the blue computer called »your host« represents the computer where *someone* starts the ssh tunnel, in this case the firewalled machine.

So, ask *someone* to start a ssh tunnel connection to your machine. The command should basically look like

```
ssh -R 12345:localhost:22 YOURIP
```

Now the tunnel is opened. You can now connect via ssh to the firewalled machine through the tunnel with the command

```
ssh -p 12345 localhost
```

which will connect to your own localhost (your machine) on port 12345, but port 12345 is forwarded through the tunnel to port 22 of the localhost of the firewalled computer (i.e. the firewalled computer itself).

<http://unix.stackexchange.com/questions/46235/how-does-reverse-ssh-tunneling-work>