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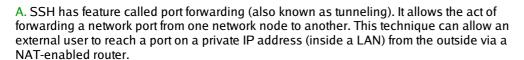
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Access Any Remote Server Port Without Modifying Firewall Settings

Posted by Vivek Gite <vivek@nixcraft.com>

Q. I've couple of remote servers and I'd like to access few admin only application running on port 10000 and 3001. My firewall only allows port 80, 443, 25, 22 and 110 for public access. Do I need to open port 10000 and 3001 for everyone using firewall? How do I access my admin only apps without opening port 10000 and 3001?





[1]

The following example tunnels port 3001 session from client machine 127.0.0.1 (localhost) to remote server called "server.nixcraft.in"

```
$ ssh -f -L {local-port}:localhost:{remote-server-port} user@remote.server.com
$ ssh -f -L 3001:localhost:3001 user@server.nixcraft.in
```

The connection is forwarded to port 3001 on the remote server. If 3001 is web based app, open a web browser and type the url http://localhost:3001/

Another example to forward to port 10000, enter:

```
$ ssh -N -f -L 10000:localhost:10000 vivek@server.nixcraft.com
```

Where,

- -f: Requests ssh to go to background just before command execution
- -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.
- -N: Do not execute a remote command. This is useful for just forwarding ports

You can also create a script as follows (open.3001):

```
$ vi ~/open.3001
```

Append following code:

```
#!/bin/bash
ME="$(basename $0)"
SSHUSER=vivek
SERVER=remote.example.com
[ $ME == "open.3001" ] && ssh -N -f -L 3001:localhost:3001 ${SSHUSER}@${SERVER} || :
[ $ME == "open.10000" ] && ssh -N -f -L 10000:localhost:10000 ${SSHUSER}@${SERVER} || :
[ $ME == "open.3000" ] && ssh -N -f -L 3000:localhost:3000 ${SSHUSER}@${SERVER} || :
```

Set permissions, enter:

```
$ chmod +x ~/open.3001
```

Create soft-link, enter:

```
$ ln -s ~/open.3001 ~/open.10000
$ ln -s ~/open.3001 ~/open.3000
```

Now you can simply type the following to forward port 10000, enter:

```
$ ~/open.10000
```

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OR

\$ ~/open.3000

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