

In addition to other forms of remote access, CS Techstaff provides multifactor SSH access to non-forward-facing hosts through the following pair of bastion (jump) hosts.

- bastion1.cs.uchicago.edu
- bastion2.cs.uchicago.edu

To access a host that is not directly connected to the Internet via one of the bastion hosts, you may do the following.

```
amcguire@Andrews-MacBook-Pro ~ % ssh -J bastion1.cs.uchicago.edu
linux1.cs.uchicago.edu
(amcguire@bastion1.cs.uchicago.edu) Duo two-factor login for amcguire

Enter a passcode or select one of the following options:

1. Duo Push to XXX-XXX-YYYY
2. Phone call to XXX-XXX-YYYY
3. SMS passcodes to XXX-XXX-YYYY

Passcode or option (1-3): 1
Success. Logging you in...
Last login: Mon Aug 25 00:57:26 2025 from 128.135.164.17
amcguire@focal1:~$
```

In the preceding, please observe that YYYY should be the last four digits of your telephone number that's been enrolled with Duo, while the `-J` option is used to specify that `bastion1` is the proxy jump host used to "jump" to `linux1`. A similar result may be obtained via an entry in `~/.ssh/config` such as the following.

```
amcguire@Andrews-MacBook-Pro ~ % cat .ssh/config
Host linux1
  HostName linux1.cs.uchicago.edu
  ProxyJump bastion1.cs.uchicago.edu
```

So that then all one need do is,

```
amcguire@Andrews-MacBook-Pro ~ % ssh linux1
(amcguire@bastion1.cs.uchicago.edu) Duo two-factor login for amcguire

Enter a passcode or select one of the following options:

1. Duo Push to XXX-XXX-YYYY
2. Phone call to XXX-XXX-YYYY
3. SMS passcodes to XXX-XXX-YYYY

Passcode or option (1-3):
```

eliminating the need for the `-J` option.

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