**SSH**
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## MVO Network

Passwordless *ssh* has been setup for Linux computers where appropriate.


## Connecting Over Internet

You can ssh to [webobs@webobs.mvo.ms](mailto:webobs@webobs.mvo.ms).
- Alias *ssh* to *ssh -Y*.
- It helps if you setup passwordless ssh.


To use *ssh* to tunnel to other Linux machines, add the following to *~/.ssh/config* on the external computer.

```
Host webobs
    Hostname webobs.mvo.ms
    User webobs
    IdentityFile ~/.ssh/id_rsa

Host webobs2winston1
        Hostname 172.17.102.60
    User wwsuser
    ProxyJump webobs

Host webobs2opsproc3
        Hostname 172.17.102.13
    User seisan
    ProxyJump webobs

Host w2w1
        Hostname 172.17.102.60
    User wwsuser
    ProxyJump webobs

Host w2o3
        Hostname 172.17.102.13
    User seisan
    ProxyJump webobs
    ForwardX11 yes
    forwardX11Trusted yes

Host *
    ServerAliveInterval 60
    ServerAliveCountMax 120
```

The following aliases on the external computer make life easier.

```
alias sso='ssh -XC webobs2opsproc3'
alias ssw='ssh -XC webobs'
alias ssw1='ssh -XC webobs2winston1'
alias ssw2='ssh -XC webobs2winston2'
```

## Connecting Swarm Over Internet Using SSH

1.  Type the following in a shell window.

    ```
    ssh -L 16022:172.17.102.60:16022 webobs@webobs.mvo.ms cat -
    ```

2.  Start swarm on the external machine and connect it to a Winston Wave Server with:
    ip: 172.0.0.1
    port: 16022

## Remote Desktop Over SSH

See https://help.ece.gatech.edu/windows/remote-desk.