

Science DMZ Demonstration

- 3 Virtual Machines are running
 - **vt01.security.ncsa.illinois.edu**
 - Blocks after 3 attempts
 - **vt02.security.ncsa.illinois.edu**
 - Blocks after 3 attempts
 - **vt03.security.ncsa.illinois.edu**
 - Blocks after 50 attempts
- Each machine will block if two others are being attacked
- Intel Feed of each are shown on screen 1, screen 2, and screen 3

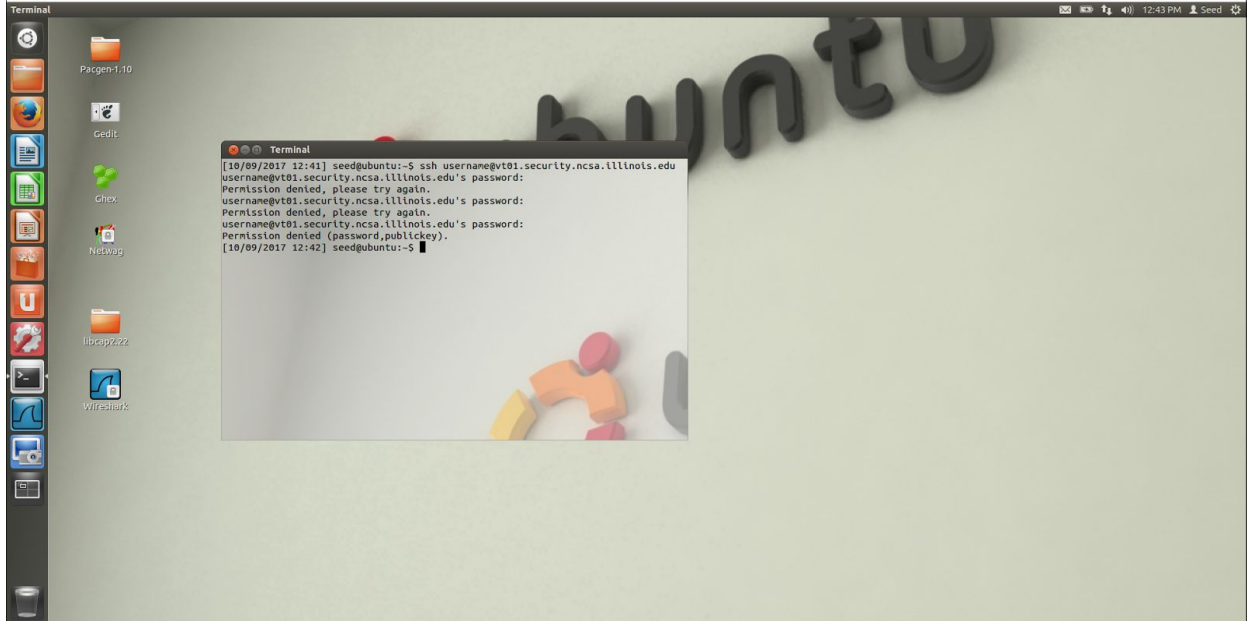
Experiment Steps: WARNING: usernames and passwords will display on projector screens, and can be traced to their source machine

- Step1: SSH into **vt01** using a username and password you recognize 3 times until vt01 blocks

```
seed@ubuntu:~$ssh username@vt01.security.ncsa.illinois.edu
```

Enter any password into the response.

```
username@vt01.security.ncsa.illinois.edu's password:  
Permission denied, please try again.
```



Blocking will look like the following:

```
seed@ubuntu:~$ssh username@vt01.security.ncsa.illinois.edu
ssh: connect to host vt01.security.ncsa.illinois.edu port 22: Connection timed
out
```

- Step2: SSH into **vt03** showing vt03 did not block (type control and c together to end ssh after first response):

```
seed@ubuntu:~$ssh username@vt03.security.ncsa.illinois.edu
username@vt03.security.ncsa.illinois.edu's password:
```

- Step3: SSH into **vt02** 3 times until vt02 blocks

```
seed@ubuntu:~$ssh username@vt02.security.ncsa.illinois.edu
username@vt02.security.ncsa.illinois.edu's password:
Permission denied, please try again.
username@vt02.security.ncsa.illinois.edu's password:
Permission denied, please try again.
username@vt02.security.ncsa.illinois.edu's password:
Permission denied, please try again.
```

Blocked Attempts will look like:

```
seed@ubuntu:~$ssh username@vt02.security.ncsa.illinois.edu
ssh: connect to host vt02.security.ncsa.illinois.edu port 22: Connection timed
out
```

- Step4: SSH into **vt03** to show vt03 is blocking you

```
seed@ubuntu:~$ssh username@vt03.security.ncsa.illinois.edu
ssh: connect to host vt03.security.ncsa.illinois.edu port 22: Connection timed
out
```

Reference:

Blocked Response:

```
seed@ubuntu:~$ssh username@vt01.security.ncsa.illinois.edu
ssh: connect to host vt01.security.ncsa.illinois.edu port 22: Connection timed
out
```

Unblocked Response:

```
seed@ubuntu:~$ssh username@vt01.security.ncsa.illinois.edu
username@vt01.security.ncsa.illinois.edu's password:
```