

# Command Line Slice Creation

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# Introduction

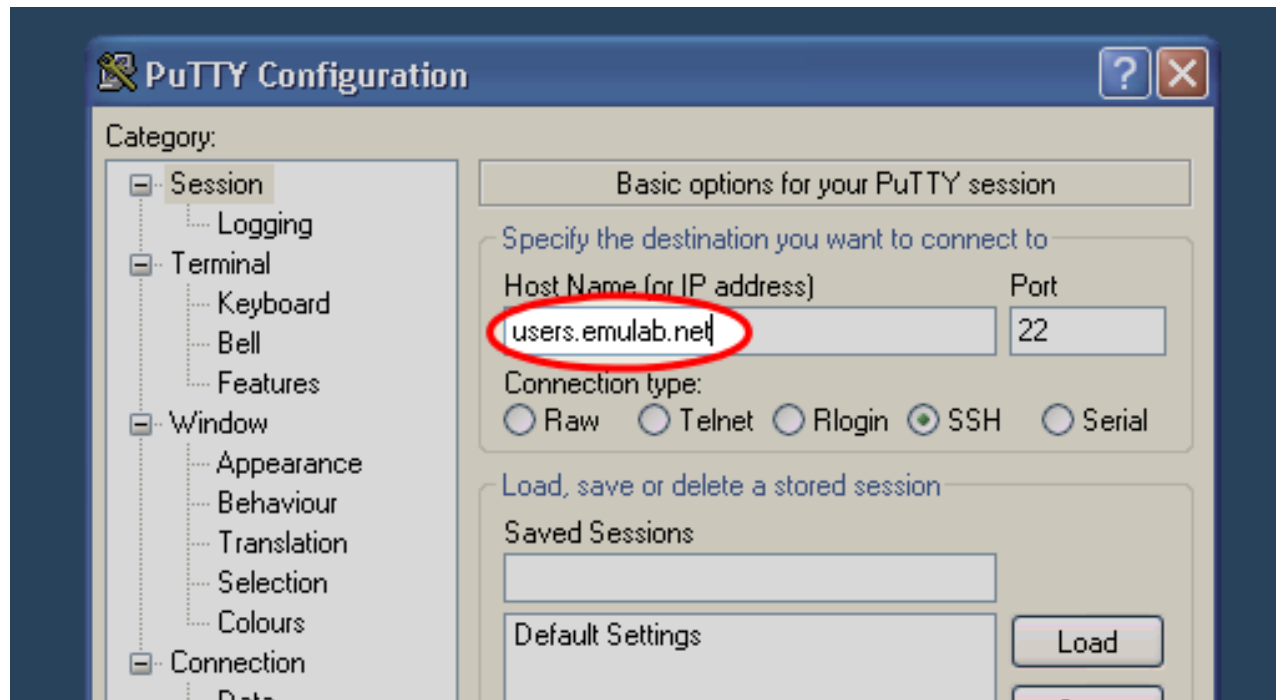
- The client machine
- Your certificate passphrase
- Checking your account
- Slice registration
- Sliver creation
- Using your components
- Cleaning up

# 1. The client machine

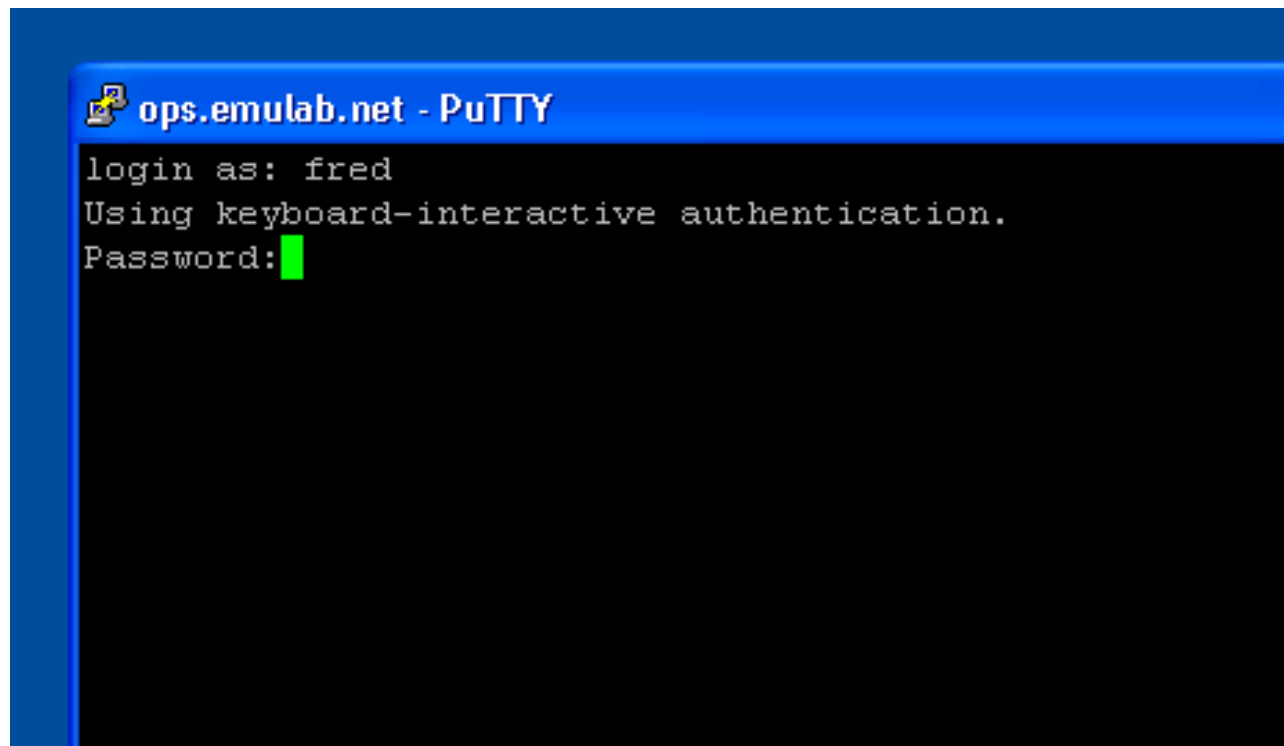
- The one you use!
- It accesses GENI services via the Internet, and GENI resources via the control network.
- In principle, just about any networked machine that can issue XMLRPC requests over HTTPS will do.
- For today:

`users.emulab.net`

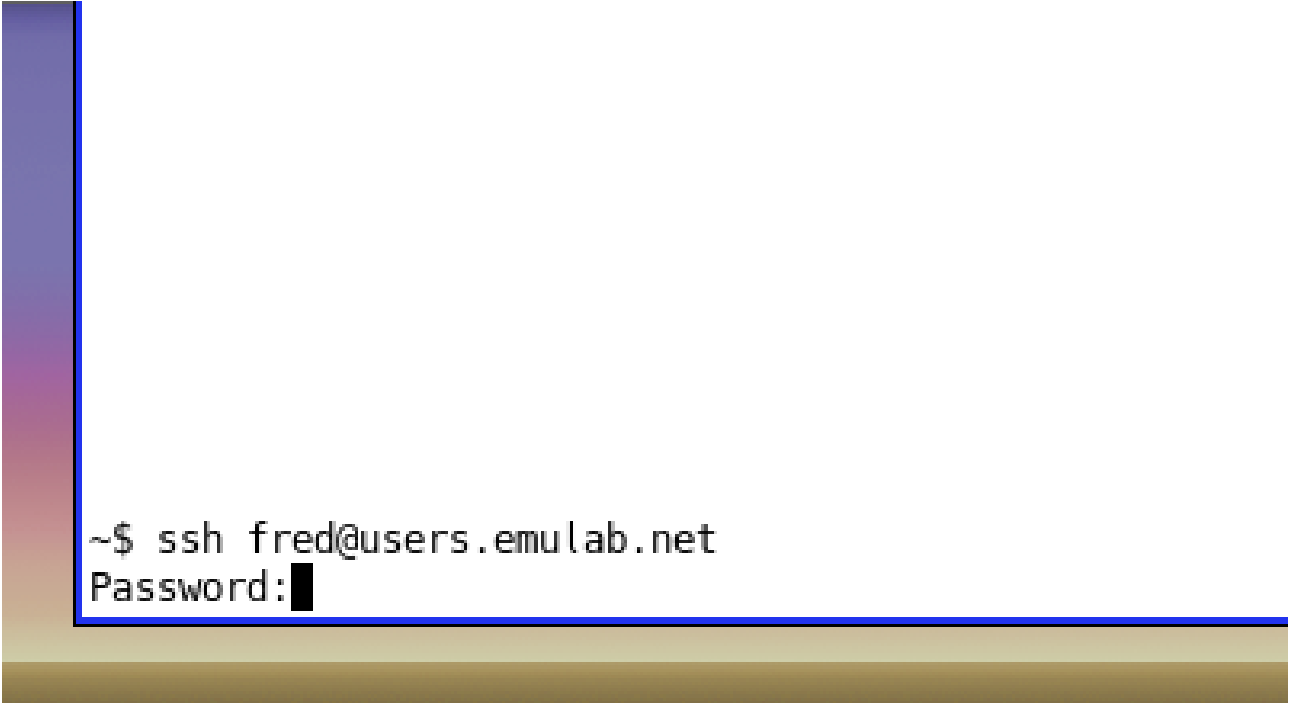
# Logging in with PuTTY



# Logging in with PuTTY



# Logging in with OpenSSH

A terminal window with a blue border and a vertical gradient bar on the left. The text inside shows the command to run SSH and the password prompt.

```
~$ ssh fred@users.emulab.net  
Password: █
```

# Getting to the scripts

- On `users.emulab.net`:

```
cd /proj/gec9tutorial/scripts
```

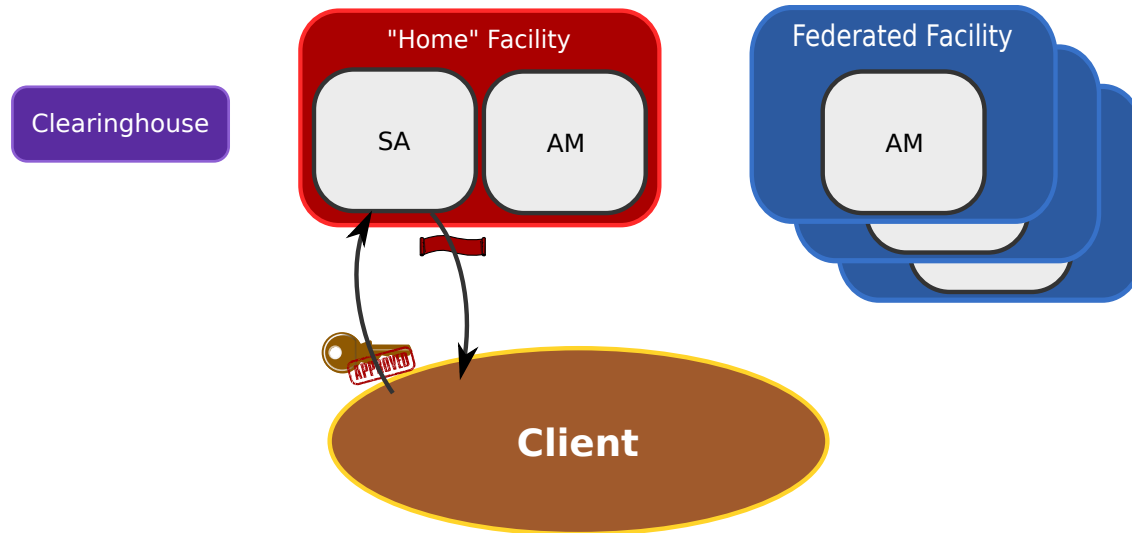
## 2. Store your passphrase

- Your private key (matching your user certificate) is already on the client machine.
- But it's passphrase protected...
- You can either:
  - supply your passphrase for every script accessing the key
  - or keep your passphrase in a plaintext file during a session (more convenient, but less secure).

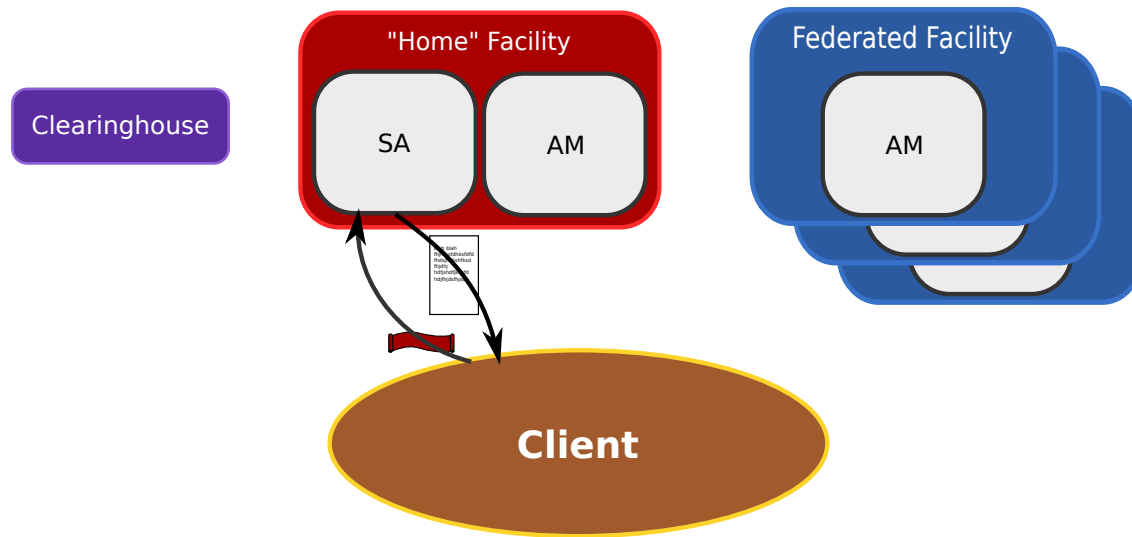
`./rememberpassphrase.py`



### 3. Inspect your account

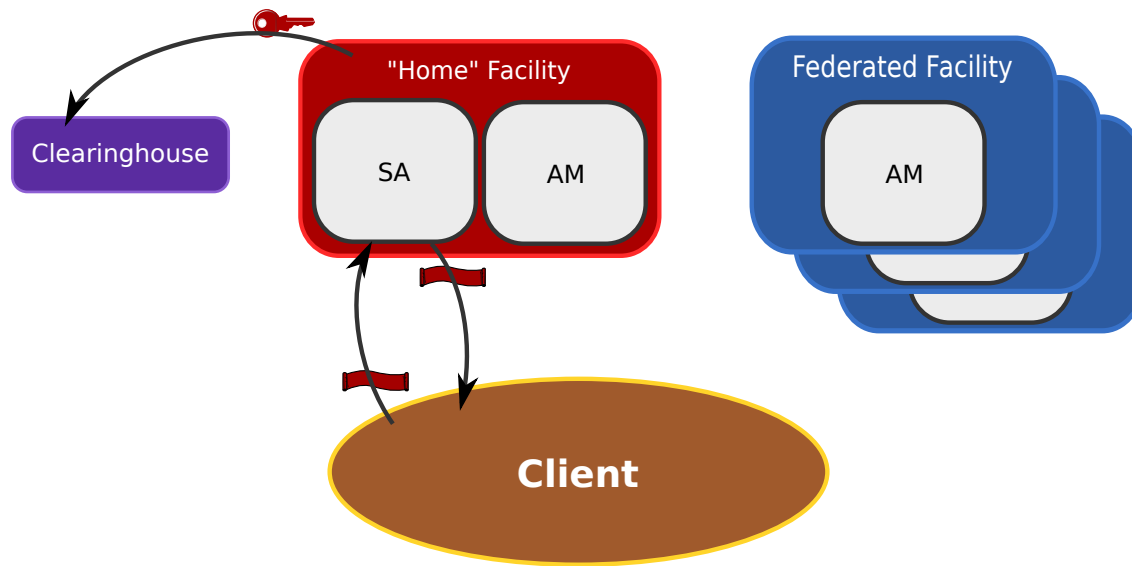


# Inspect your account



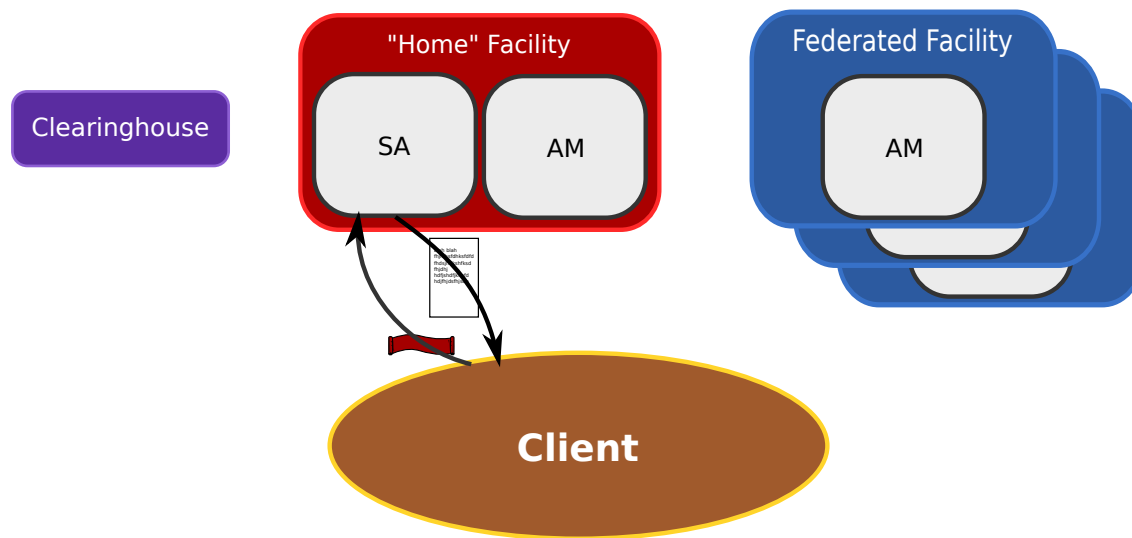
```
./showuser.py username
```

## 4. Register a slice



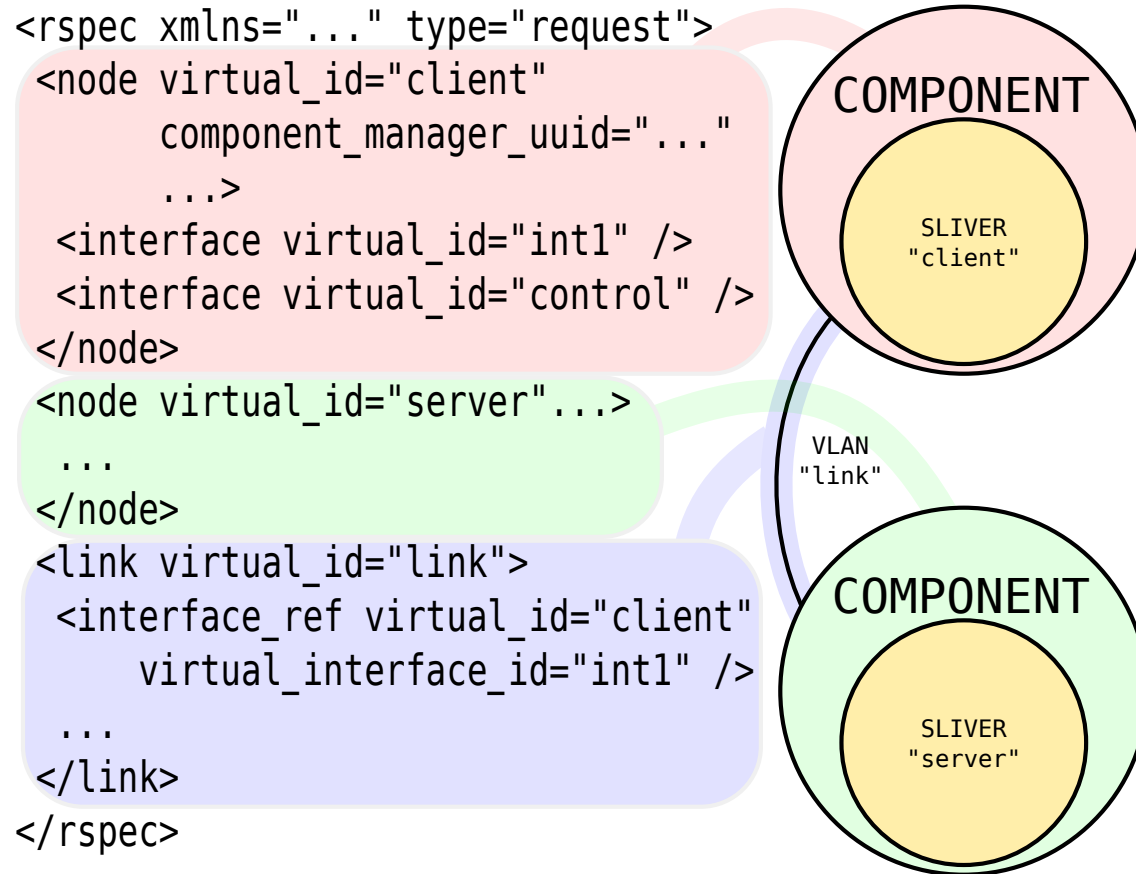
```
./registerslice.py -n usernameslice
```

## 5. Inspect your account (again)

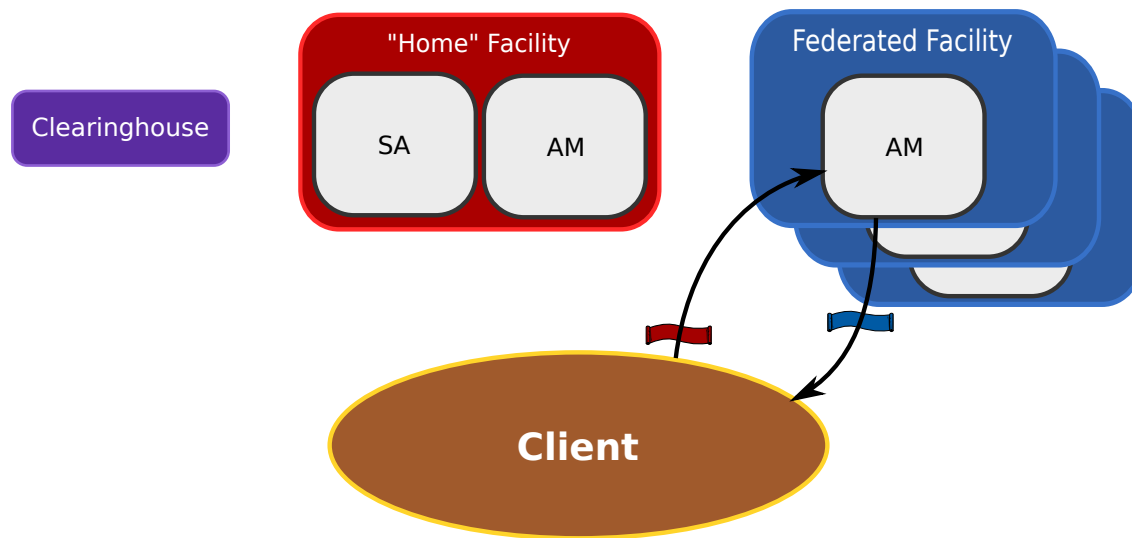


```
./showuser.py username
```

## 6. Create a sliver



# Create a sliver



```
./allocatenodes.py -n usernameslice gec.rspec
```

## 7. Log in to the components

- From **users.emulab.net**, you can run **ssh** to access the nodes you allocated in the previous step.
- The hostnames were shown by the **allocatenodes** script.
- For an example, log in to the **client** machine, and run:

```
ping server
```

## 8. Clean up the slice

- Once you're finished with the resources, you can and should deallocate them.
- In general, you should do this at every CM you used.
- Cleaning up does NOT unregister the slice name at the SA. (That will expire by itself.)

```
./deleteslice.py -n usernameslice
```



## 9. Remove your passphrase

- If you had stored your passphrase on the client machine earlier:

```
./forgetpassphrase.py
```