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SSH & DevOps Crash Course Snippets

 [ssh.md](#)

SSH Cheat Sheet

This sheet goes along with this [SSH YouTube tutorial](#)

Login via SSH with password (LOCAL SERVER)

```
$ ssh brad@192.168.1.29
```

Create folder, file, install Apache (Just messing around)

```
$ mkdir test
```

```
$ cd test
```

```
$ touch hello.txt
```

```
$ sudo apt-get install apache2
```

Generate Keys (Local Machine)

```
$ ssh-keygen
```

Add Key to server in one command

```
> cat ~/.ssh/id_rsa.pub | ssh brad@192.168.1.29 "mkdir -p ~/.ssh &&  
chmod 700 ~/.ssh && cat >> ~/.ssh/authorized_keys"
```

Create & copy a file to the server using SCP

```
$ touch test.txt $ scp ~/test.txt brad@192.168.1.29:~
```

DIGITAL OCEAN

Create account->create droplet

Create Keys For Droplet (id_rsa_do)

```
$ ssh-keygen -t rsa
```

Add Key When Creating Droplet

Try logging in

```
$ ssh root@doserver
```

If it doesn't work

```
$ ssh-add ~/.ssh/id_rsa_do (or whatever name you used)
```

Login should now work

```
$ ssh root@doserver
```

Update packages

```
$ sudo apt update
```

```
$ sudo apt upgrade
```

Create new user with sudo

```
$ adduser brad
```

```
$ id brad
```

```
$ usermod -aG sudo brad
```

```
$ id brad
```

Login as brad

```
> ssh brad@doserver
```

We need to add the key to brads .ssh on the server, log back in as root

```
$ ssh root@doserver
```

```
$ cd /home/brad
```

```
$ mkdir .ssh
```

```
$ cd .ssh
```

```
$ touch authorized_keys
```

```
> sudo nano authorized_keys (paste in the id_rsa_do.pub key, exit and log in as brad)
```

Disable root password login

```
$ sudo nano /etc/ssh/sshd_config
```

Set the following

```
PermitRootLogin no
```

```
PasswordAuthentication no
```

Reload sshd service

```
$ sudo systemctl reload sshd
```

Change owner of /home/brad/* to brad

```
$ sudo chown -R brad:brad /home/brad
```

May need to set permission

```
$ chmod 700 /home/brad/.ssh
```

Install Apache and visit ip

```
$ sudo apt install apache2 -y
```

Github

Generate Github Key(On Server)

```
$ ssh-keygen -t rsa (id_rsa_github or whatever you want)
```

Add new key

```
$ ssh-add /home/brad/.ssh/id_rsa_github
```

If you get a message about auth agent, run this and try again

```
```$ eval `ssh-agent -s````
```

## Clone repo

---

```
$ git clone git@github.com:bradtraversy/react_otka_auth.git
```

## Install Node

---

```
$ curl -sL https://deb.nodesource.com/setup_10.x | sudo -E bash -
```

```
$ sudo apt-get install -y nodejs
```

## Install Dependencies

---

```
$ npm install
```

## Start Dev Server and visit ip:3000

---

```
$ npm start
```

## Build Out React App

---

```
$ npm run build
```

## Move static build to web server root

---

```
$ sudo mv -v /home/brad/react_otka_auth/build/* /var/www/html
```

**akrishnakumar-...** commented on 8 Jul 2018 • edited ▼

How about using Ansible for automating the stuff? It's a DevOps tool for automating the tasks (deployments in this case) or just making changes repetitively (like you wanna repeat a single task every time). It uses SSH and easy to learn (as it's YAML)