# HyperCycle Workshop

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Blockhack 2023

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# Overview

1. Access your AWS Instance

2. Set Up Greeting AIM

3. Frontend Demo

4. Set Up Greeting Frontend

# Access your AWS Instance

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- ▶ Required resources to run the examples are available at
  https://github.com/hypercycle-development/hypercycle-blockhack-2023
- ▶ To run the examples without an AWS instance on a local Ubuntu install (either native or in a VM), skip this section and all remote OS commands (ssh and scp/pscp) in section 2 (Set Up Greeting AIM)
  - ▶ In this case start with the sudo apt install command in section 2 and use localhost as your ip-address

# Access your AWS Instance

1. Get your .pem file and your ip address (user ubuntu)
   - `cd ~/Downloads`
   - `mv key-filename.pem ~/.ssh`
   - `chmod 400 key-filename.pem`

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1. Get your .pem file and your ip address (user ubuntu)
   - `cd ~/Downloads`
   - `mv key-filename.pem ~/.ssh`
   - `chmod 400 key-filename.pem`
2. Add entry in .ssh/config (MacOS & Linux)
   - `Host servername`
     `Hostname your.instance.ip.address`
     `User ubuntu`
     `IdentityFile ~/.ssh/key-filename.pem`

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1. Get your .pem file and your ip address (user ubuntu)
2. Add entry in .ssh/config (MacOS & Linux)
   - ```
     Host servername
         Hostname your.instance.ip.address
         User ubuntu
         IdentityFile ~/.ssh/key-filename.pem
     ```
3. SSH in, update your instance and reboot
   - ```
     ssh servername OR ssh -i ~/.ssh.key-filename.pem ubuntu@ip-address
     ```
   - ```
     sudo apt update  sudo apt upgrade
     ```
   - ```
     sudo reboot
     ```

Set Up Greeting AIM

# Set Up Greeting AIM

1. Copy greeting_aim tarball to your instance
   - (MacOS & Linux) `scp greeting_aim.tar.xz servername:`
   - (Windows)
     `pscp -scp -i path-to-pem-file greeting_aim.tar.xz ubuntu@ip_address:`
     - `https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html`
   - `ssh servername` OR `ssh -i path-to-pem-file ubuntu@ip-address`
   - `sudo apt install python3-pip`
   - `tar -xvf greeting_aim.tar.xz`
   - `cd greeting_aim`
   - `pip install -r requirements.txt`

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2. Run your service as a background process
   - `python3 ./app/main.py &`
   - Note the process number so you can stop it later (`sudo kill process-number`)

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2. Run your service as a background process
   - `python3 ./app/main.py &`
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3. Enter `ip-address:4000/greet` in a browser window

Frontend Demo

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# Set Up Greeting Frontend

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1. Install nodejs and yarn
   - (Ubuntu) `sudo apt-get install curl`
   - `url -fsSL https://deb.nodesource.com/setup_16.x | sudo -E bash - &&\`
   - `sudo apt-get install nodejs`
   - `npm install -global yarn`

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2. Install dependencies for UI
   - ▶ Edit `.env` file, change greeting port to 4000
   - ▶ note or change the app port
   - ▶ `yarn install`

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   - ▶ `yarn dev`

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3. Start UI service
   - ▶ `yarn dev`
4. View in webpage
   - ▶ `http://localhost:5172`

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# Thank You!