



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

The background of the slide is composed of large, overlapping geometric shapes. In the top-left corner, there are two shades of green triangles. The bottom-left corner is a light blue triangle. The remaining area is a large, light cream-colored triangle that points towards the top-right.

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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- ▶ `mv key-filename.pem ~/.ssh`
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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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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

The background of the slide is composed of several overlapping geometric shapes. In the top-left corner, there are two shades of green: a lighter, lime green and a slightly darker, forest green. The bottom-left corner is a solid light blue. The rest of the slide is a plain off-white color. The text 'Set Up Greeting AIM' is centered in the white area.

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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3. Enter ip-address:4000/greet in a browser window

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Frontend Demo

Frontend Demo

 **HyperCycle Client**


Welcome, here we can communicate with an AI machine.

Image Translation AI


Select your image

test1.jpg

Selected Image:



Translated Image:





Set Up Greeting Frontend

Set Up Greeting Frontend

1. Install nodejs and yarn

- ▶ (Ubuntu) `sudo apt-get install curl`
- ▶ `curl -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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3. Start UI service

- ▶ `yarn dev`

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4. View in webpage

- ▶ `http://localhost:5172`

Thank You!