

# Tiny Tiny Cheap Cloud

## @OpenStack Days Tokyo 2018

Masayuki Igawa  
masayuki@igawa.io  
masayukig on Freenode, GitHub,  
Twitter

August 2-3, 2018

<https://github.com/masayukig/cheap-cloud>

# Agenda

- ▶ What is “the OpenStack”?
- ▶ What I did
- ▶ Why do I need it?
- ▶ How to build it? (Design, Hardware, Yahoo! auction, Rent a car, LackRack)
- ▶ Benefits
- ▶ Issues
- ▶ Conclusion
- ▶ Demo

# What is “the OpenStack”?

- ▶ Open Source Cloud Software: Apache License Version 2.0
- ▶ consists of a lot of projects: **xx projects**
- ▶ released every 6 month: Latest version is called ‘Queens’

## What I did

- ▶ Buy 1U servers \* 3
- ▶ Install openSUSE
- ▶ Install OpenStack

## Buy 1U servers

- ▶ Yahoo! Auction
- ▶ 1U, Xeon 6cores \* 2CPU, 32GB RAM, 250GB HDD\*2, 15k JPY
- ▶ By car

# Install openSUSE

- ▶ Download image and burn it to a USB stick
- ▶ Install from that media
- ▶ Update it to the latest

# Install OpenStack

- ▶ Read the Doc
- ▶ Install from the openSUSE repo
- ▶ Configure

# Benefits

- ▶ Free!!!
- ▶ Low Cost
- ▶ Powerful
- ▶ Low Network Latency
- ▶ Warm (in winter)



# Issues

- ▶ Electricity
- ▶ Noise
- ▶ Space
- ▶ Failures
- ▶ Abandonment

# Demo

- ▶ Boot an Instance

# Conclusion

- ▶ TBD