

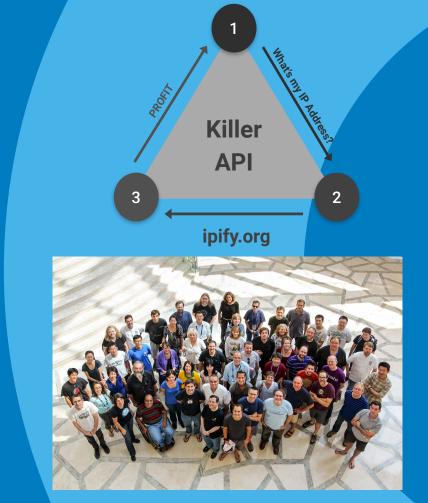
## Welcome!

- Agenda
  - The Challenge (2 min)
  - Distributed JMeter (2 min)
  - Digital Ocean (2 min)
  - The Solution (2 min)
  - Docker (2 min)
  - Load Testing the Hard Way (20 min)
  - Okta Overview (5 min)
  - Questions (10 min)

#### The Challenge:

 You expect your killer API to have millions of users.

 You want to make sure that your killer API can handle the traffic.



**Professional Load Testing Cost: \$30,000** 

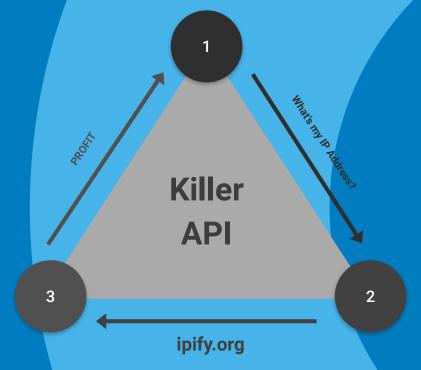




## DigitalOcean

### JMeter + DigitalOcean

- 200 "users" per JMeter server
- 100 JMeter servers
- JMeter servers could be in different regions
- 20,000 simultaneous requests



100 - 8GB, 4CPU Droplets = \$0.06 \* 100 = \$6 / hour 1 - 8GB, 4CPU Droplet = \$0.06 / hour

**Total cost for 100,000,000 requests = \$6.06** 



# The Hard Way

## The Hard Way Components:

- Spring Boot
- Apache HTTPClient
- DigitalOcean API
- SSH
- Distributed JMeter

### **The Hard Way Process:**

- 1. Create *n* DO server droplets a. confirm all created
- 2. Wait for all server droplets to be active
- 3. Add all server droplets to firewall
- 4. Start JMeter on all server droplets a. confirm JMeter started on all
- 5. Create DO client droplet a. confirm created
- 6. Wait for client droplet to be active
- 7. Add client droplet to firewall
- 8. Push test plan to client droplet
- 9. Start JMeter on client droplet a. confirm JMeter started

## Okta Enables Companies to Do Both IT & API



Employees, Contractors

0

Identity & Mobility Service:

Identity Management Mobility Management Strong Authentication





Partners, Customers



Identity API Products:
Identity API for Any App
Developer Tools
and Community





## Resources

- Twitter @afitnerd @OktaDev
- JMeter https://jmeter.apache.org/
- Docker https://www.docker.com/
- https://ipify.org
- Digital Ocean API
  - developers.digitalocean.com/documentation/v2
- Docker + JMeter https://github.com/ajeetraina/jmeter-docker
- Free Okta Org for Developers https://developer.okta.com/signup
- Okta Training https://www.okta.com/services/training
- github.com/dogeared/codercruise-2019-load-testing-the-hard-way
- github.com/dogeared/load-testing-the-hard-way-example





