

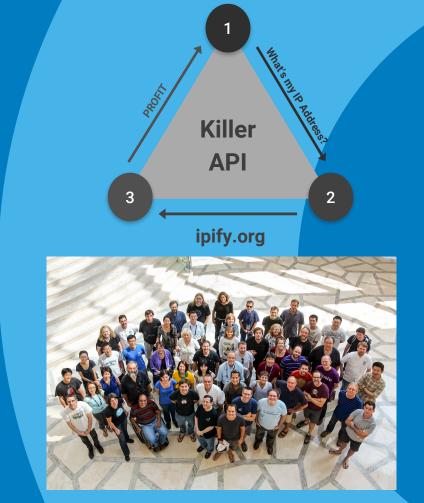
Welcome!

- Agenda
 - The Challenge (5 min)
 - Distributed JMeter (5 min)
 - Digital Ocean (5 min)
 - The Solution (5 min)
 - Docker (5 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

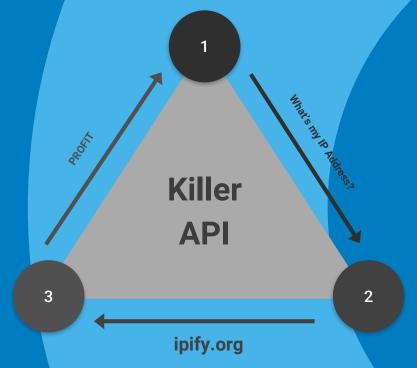




DigitalOcean

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 Secure Both IT & API



Employees, Contractors



Identity Service:
Identity Management
Strong Authentication





Partners, Customers



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





Shout out!

- ipify.org
- whoisxmlapi.com
- geoipify.whoisxmlapi.com

Resources

- Load Testing the Hard Way Code
 - https://github.com/dogeared/load-testing-the-hard-way-example
- JMeter https://jmeter.apache.org/
- Digital Ocean API
 - https://developers.digitalocean.com/documentation/v2
- Docker https://www.docker.com/
- Docker + JMeter https://github.com/ajeetraina/jmeter-docker
- Free Okta Org for Developers https://developer.okta.com
- Okta Training https://www.okta.com/services/training/
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