

TERRAFORM / CONSUL INTRODUCTION



November 26, 2015

- Terraform
 - What is Terraform
 - Terraform commands
 - Default AWS EC2 app setup
 - Terraform demo
- Consul
 - Consul overview
 - Consul cluster
 - Service discovery
 - Docker & Consul
 - Consul demo

TERRAFORM

WHAT IS TERRAFORM?

- Build, change and version your infrastructure
- This includes, instances, network, DNS, ...
- Infrastructure as code
- Execution plans
- Resource graphs
- Change automation

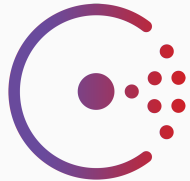
- Plan
- Apply
- Destroy
- Show

- Public and private subnets
- Security groups
- Bastion host
- Nat instance

TERRAFORM DEMO

CONSUL

- www.consul.io
- Service Discovery
- Key/Value Store
- Distributed & Highly Available



- 3 Nodes across different AZs
- Single node failure tolerated
- Clients connect to Cluster nodes

- What services are available?
- Where are they located?
- Is the service up?
- Dynamic configuration (loadbalancer, etc.)
- Interfaces: DNS, HTTP API

- gliderlabs/registrator
 - Automatic service registry
 - Services exposed from Docker containers
- consul-template
 - Render config files dynamically
 - From templates
 - Based on Consul service catalog (and K/V store)
 - E.g. dynamic backends in HAProxy



DEMO

QUESTIONS?