

Terraform to FreeIPA

Oct 5, 2017



WOMEN IN LINUX

Founder and CEO

- Social Media Everything
 - @womeninlinux
- Originally from Atlanta
 - Leave in Tampa
- Talks given at OSCON, WILSummit, Linux Foundation
- Training every Wednesday Virtually

Audience

- Beginner
- Intermediate Linux
- Azure Cloud
- Security
- Infrastructure teams

Objectives

- Understand Basics of Terraform
 - Variables
 - Init, Plan, Apply, Destroy, Graphviz
 - Updates
- Setting Freeipa with Ansible
 - Basic commands such ntp
 - Creating server and client
 - Setting up katello and foreman

Objectives

- Understand Basics of Ansible
 - ad-hoc
 - playbook
 - Within Terraform
- Setting Freeipa with Ansible
 - Basic commands such ntp
 - Creating server and client
 - Setting up katello and foreman

Materials

- YOU ARE NEEDED
- Azure Subscription
- Ansible (latest)
- Terraform (latest)
- Epel (latest)
- Katello and Foreman (latest)*

* if time permits

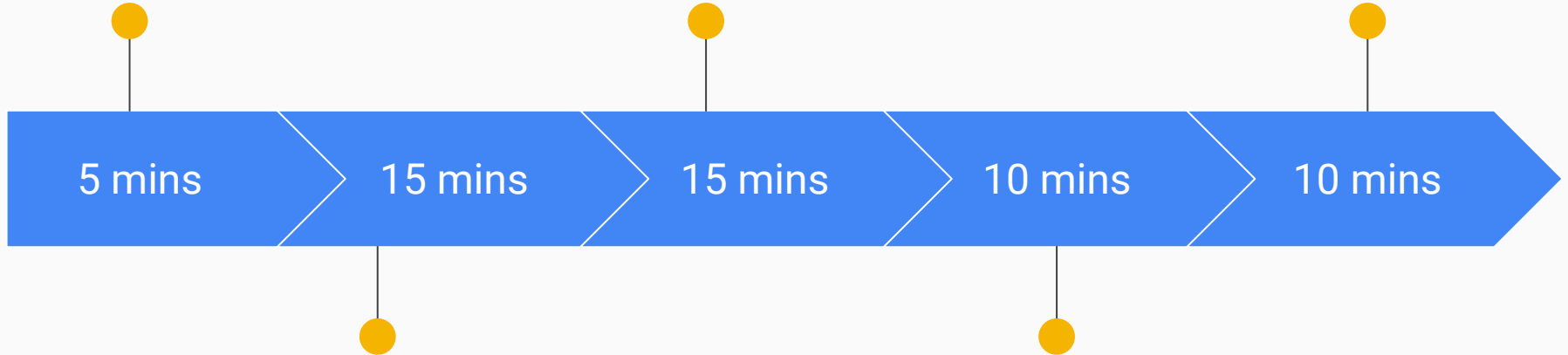
Creating Azure
Subscription Account

Azure init

Azure plan

Azure apply

Questions



Installing Terraform
and creating tf files

Lets check

Background

Terraform

- What is it ?
- When would I use it ?
- How do I get going ?
- Demo Terraform

Ansible

- What is it ?
- When should I use it ?
- Ad-hoc vs Playbook
- Demo

FreeIPA

- What is it?
- Cost freeipa vs IDM
- Freeipa in Windows Environment
 - Kerberos
 - NTP
- Alternative (Cost)
 - Centrify
 - IDM from Redhat
 -

Foreman/Katello

- Satellite Server
- One stop provisioning
- Mixed Compute Resources
- Puppet

Procedure and Environment Setup

Setting Up Environment

- Install Terraform
 - <https://www.terraform.io/intro/getting-started/install.html>
 - Download and place in /opt
 - Update /etc/profile
- Install ansible
 - brew install ansible
- Create Azure Account (free with limitations)
- Create Principal Account needed for Terraform

OKAY LET'S
PLAY



RESOURCE

<https://blog.gruntwork.io/why-we-use-terraform-and-not-chef-puppet-ansible-saltstack-or-cloudformation-7989dad2865c>

<https://www.youtube.com/watch?v=KuZfGCLTGbo&feature=share>

<https://www.digitalocean.com/community/tutorials/how-to-set-up-centralized-linux-authentication-with-freeipa-on-centos-7>

<https://www.terraform.io/intro/index.html>

https://www.freeipa.org/page/V4/IPA_Client_in_Active_Directory_DNS_domain

Greeting credentials