**Terraform & Puppet**

Hi Sean -

I wanted to send along some additional information on how Puppet and Terraform can work together.

A few things to determine before deciding on a provisioning tool is what the end-goal of using the provision is and who the primary customer will be. For example, will this be a self-service portal or will it be leveraged primarily by an infrastructure team?

In the high-level scenario we discussed last week, Terraform would be used to provision your cloud instance and then once the provisioning was complete it would kickoff code that stands up Puppet Enterprise. Puppet Enterprise would handle the configuration management of that instance.

Terraform works with a number of providers including [AWS](https://www.terraform.io/docs/providers/aws/index.html) and [Google Cloud](https://www.terraform.io/docs/providers/google/index.html) among many others. I believe Cloud Foundry could be stood up on either AWS or Google Cloud.

There is also an interesting talk from PuppetConf 2016 that focuses on using Terraform to provision Docker containers on ECS. <https://www.youtube.com/watch?v=aSwsbWCPFUs>

Cheers,

Erica

How does Puppet compare to Terraform by Hashicorp?

More specifically how do the two live together? How and when would you use one over the other?

What are you trying to accomplish?

Provisioners alone are the question of - Are you looking for a self-service portal.

Unless you’re going to use our types/providers to spin up AWS instances, you could.

Not that different than Terraform other than Terraform is new.

Handoff question really.

Code or graphical self-service?

Provsioner can determine memory. But often can’t dynamically change these variables.

System that does provisioning intergrate with the node classifier. Not many folks do that. This integration point has to be done yourself and things like facts are much easier.

PS Team on Hipchat - seen terraform

CIAC, vRO, Terraform

Jeremy Adams

Kaiser Permanente

vRo create yaml files on the master directly - an in between ways

Didn’t commit to version control but created artifacts on the master

Facts - Decentralized

Centralized - On the master / compile masters (custom and not as common)

Puppet for Provisioning

It’s possible

A few problematic things

* Write and submit puppet code each time you wanted a new node
* A new node is a yaml entry

Possible but you’d really have to be okay with a yaml file being the provisioner

**Puppet Tasks**

Week of July 10th

Prototype - Nothing to install

Interested in talking to folks that:

1. Use Ansible / MCollective
2. Some cloud infrastructure
3. Windows