



Continuously Deliver your Blog as Code with Terraform

@tracypholmes

Hello!

I am Tracy P Holmes

I am here because I'm back in Engineering, & scared all over again.

You can find me at @tracypholmes (& my team at @vmwopensesource!)



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A decorative network diagram in the top-left corner, featuring a complex web of interconnected nodes and lines, with some nodes highlighted in blue.

1.

Background (me!)

Let's start with a bit of who I am

A decorative network diagram in the bottom-right corner, featuring a complex web of interconnected nodes and lines, with some nodes highlighted in blue.

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A decorative graphic at the top of the slide featuring a network of interconnected nodes and lines, resembling a molecular structure or a complex web. The nodes are represented by small circles, some solid and some hollow, connected by thin lines. A central node is highlighted with a larger, dashed circle around it, containing a blue double quote symbol.

“

“Every day the clock resets. Your wins don't matter. Your failures don't matter. Don't stress on what was, fight for what could be.”

-Sean Higgins



2.

Background (talk)

Where did this idea come from?!



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My blog process is somewhere between these two things...



So I thought...why not use Terraform

What is Terraform

It's an Infrastructure as Code tool for creating hybrid or multi-cloud environments.

For instance if you needed to use VMware, AWS, and GCP, you can configure and deploy it all at once (in one file).

Or...if you wanted to order a pizza from Domino's and tweet about it.

What is a provider

Providers are plugins that implement the resource types so you aren't having to deal with API calls and whatnot yourself.

In the previous example, the diff housing types are the providers.



“

Please don't send me anything to correct the example! I use that as an easy explanation. It may not be correct down to the comma, but it gets the point across!

The only provider I found was for Medium.

Issue #1

The provider was hinky
(I talked to the person
that created it).

Issue #2

I didn't really want to
use Medium since they
changed to
members-only content.
Not everyone is able to
pay, so that's a no in
my book.

Issue #3

dev.to didn't have a
provider. Bummer.



3.

Dev.to Provider

Wait - how do you build a provider 🤔

Umm..but HOW do you build a provider?!

[All](#) [Images](#) [Videos](#) [News](#) [Maps](#) [Shopping](#) [Settings](#)

[All regions](#) [Safe search: moderate](#) [Past year](#)

[https://www.hashicorp.com > resources > how-build-usable-terraform-provider-20-hours](https://www.hashicorp.com/resources/how-build-usable-terraform-provider-20-hours)

How to Build a Usable Terraform Provider in 20 Hours

How to Build a Usable Terraform Provider in 20 Hours Published 7:45 AM UTC Apr 27, 2021
Robert Ross will share the wisdom he gained on his hack sessions to show **how** you too can get a working **Terraform provider** up and running in 20 hours.

[https://binx.io > blog > 2021 > 03 > 20 > how-to-create-a-private-terraform-provider-registry-...](https://binx.io/blog/2021/03/20/how-to-create-a-private-terraform-provider-registry-...)

How to create a private terraform provider registry using ...

Since version 0.13 **terraform** supports the notion of a **provider** registry. You can **build** and publish your own **provider** in the public registry. At the moment, there is no private registry implementation available.

[https://www.digitalocean.com > community > tutorials > how-to-build-a-custom-terraform-...](https://www.digitalocean.com/community/tutorials/how-to-build-a-custom-terraform-...)

How To Build a Custom Terraform Module | DigitalOcean

Terraform installed on your local machine and a project set up with the DO **provider**. Complete Step 1 and Step 2 of the **How To Use Terraform** with DigitalOcean tutorial, and be sure to name the project folder **terraform-modules**, instead of loadbalance. During Step 2, do not include the pvt_key variable and the SSH key resource.

That said, I didn't actually do that. Because I'm stubborn.

- ◎ Terraform has a wonderful Plugin SDK team that provides an awesome "quick start" repo as a starting point to creating providers. You can find it here <https://github.com/hashicorp/terraform-provider-scaffolding>.
- ◎ I love the team, and they appreciate feedback. So, that's what I decided to use.
- ◎ Now, I needed to find out if an API was even available (that should've come first 🙄)

Researching the API

DEV Community API Keys

You can generate personal API keys to use for authentication with the DEV Community API. The API is still in its beta stage. The [documentation](#) contains further information.

Generate a new Key

Description

What's this API key for?



Except...

Issue #1

It's still in early stages (currently Beta).

Issue #2

The dev.to API is built on top of Forem - there isn't an API built specifically for dev.to..

- ◎ I kept that for documentation, as a bit more research brought me to gophorem(<https://github.com/ShiraaazMoollatjie/gophorem>), which is a REST API Wrapper for Forem API written in go.

Actually building the @(*@\$(%*Y@# thing



tracypholmes Adds a Holy Boba Fett - it works!

📁 .github	Initial commit
📁 docs	Initial commit
📁 examples	Adds a Holy Boba Fett - it works!
📁 internal/provider	Adds a Holy Boba Fett - it works!
📁 tools	Initial commit
📄 .gitignore	Adds a Holy Boba Fett - it works!
📄 .goreleaser.yml	Initial commit
📄 CHANGELOG.md	Initial commit
📄 GNUmakefile	THE DATASOURCE WORKS 🙌🙌
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📄 go.sum	omg this was hell bless Berry 😞
📄 main.go	omg this was hell bless Berry 😞

We decided to test basic stuff - so the first thing we attempted was to pull a list of articles (whether draft, or published, etc).

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You'll see the previous slide at least once more.

- ◎ I (to this day and one of the reasons I needed to do this) tend to comment more than anything. So, I created a draft post as a test.
- ◎ The other thing I ran across was documentation issues.
- ◎ Code diving is what ended up happening. The structs in this file got us going <https://github.com/ShiraazMoollatjie/gophorem/blob/master/pkg/gophorem/articles.go>

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4.

Status Update

Where I am now, and how I got here



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Thanks!

Any questions?

You can find me at:

@tracypholmes and also

@vmwareopensource



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Credits

Special thanks to all the people who made and released these awesome resources for free:

- ◎ Presentation template by SlidesCarnival
- ◎ learn.hashicorp.com - Terraform Provider Tutorial
- ◎ Terraform Provider Template -
<https://github.com/hashicorp/terraform-provider-scaffolding>