Module Sources

Module Sources example

- ref=development: we are referring to the development branch

```
source = "./vpc"
source = "../../terraform/ec2/"
source = "github.com/leonardtia1/test-module/terraform/ec2"
source = "git::https://github.com/leonardtia1/test-module.git"
source = "git::https://github.com/leonardtia1/test-module.git?
ref=development"
source = "git::ssh://github.com/leonardtia1/test-module.git"

source = "git::https://github.com/company_name/terraform-modules
//terragrunt/modules/zedcloud-azure?ref=1.0.15" (put // after the root
of the repository)
source = "git::https://github.com/company_name/terraform-modules
//terragrunt/modules/zedcloud-aws?ref=develop" (put // after the root
of the repository)
```

Tags

- Here we're downloading the production branch of the module in the tf_vpc repository.

```
module "vpc" {
source = "git::https://github.com/turnbullpress/tf_vpc.git?
ref=production"
}
```

- Committing and pushing our vpc module

```
$ pwd
~/terraform/web/vpc
$ git add .
$ git commit -m "First commit of VPC module"
$ git tag -a "v0.0.1" -m "First release of vpc module"
$ git remote add origin git@github.com:turnbullpress/tf_vpc.git
$ git push -u origin master --tags
```

- Updating our vpc module configuration

```
module "vpc" {
source = "github.com/turnbullpress/tf_vpc.git?ref=v0.0.1"
name = "web"
cidr = "10.0.0.0/16"
public_subnet = "10.0.1.0/24"
}
```

- We'll need to get our module again since we've changed its source. Getting the new vpc module.

```
$ terraform get
Get: git::https://github.com/turnbullpress/tf_vpc.git?ref=v0.0.1
```

- Any time we want to use the vpc module, we can now just reference the module on GitHub. This also means we can manage multiple versions of the module—for example, we could create v0.0.2 of the module, and then use the ref parameter to refer to that.
- This allows us to test a new version of a module without changing the old one.

```
$ pwd
~/terraform/web/vpc
$ git add .
$ git commit -m "First commit of VPC module"
$ git tag -a "v0.0.2" -m "Second release of vpc module"
$ git remote add origin git@github.com:turnbullpress/tf_vpc.git
$ git push -u origin master --tags
module "vpc" {
source = "github.com/turnbullpress/tf_vpc.git?ref=v0.0.2"
name = "web"
cidr = "10.0.0.0/16"
public_subnet = "10.0.1.0/24"
}
```

Git Basics - Tagging

```
git tag -a v1.4 -m "my version 1.4"
git tag
git show v1.4
```