## Terraform Provider Versioning



## Provider Versioning

- Each Provider maintains its own version independent from Terraform
- Providers release their own bug fixes and features, based on the platform supported by Provider
  - AWS releases new services, requires AWS Provider to update
- Best practice is to provide strict version constraint
  - Helps maintain stability across team members
  - Version constraints are locked into the dependency lock file

```
workflow_basics > 😭 providers.tf
      terraform {
        required_providers {
          aws = {
           source = "hashicorp/aws"
 4
            version = "~> 3.0"
 6
        required_version = "~> 1.0.4"
 8
 9
10
      # Configure the AWS Provider
11
      provider "aws" {
12
        region = "us-west-2"
13
        profile = "levelup_terraform"
14
15
```



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- Version constraints must meet certain requirements:
  - Must be a string literal, cannot use variables
  - Must follow the semantic versioning format (1.0.0, 1.0, 3.1.2, etc)
- Valid operators
  - = An exact match (version = "= 3.0")
  - !=: Excluding an exact match (version = "!= 3.0")
  - >, >=, <, <= Standard less than, greater than operators</p>
  - ~> Allow only rightmost version increase (3.0 -> 3.1, 3.2) (3.0.1 -> 3.0.2, 3.0.3)
- Detailed versioning is possible: ">= 1.2.0, < 2.0.0"
- Terraform will install the latest version that matches the version constraint

