ROIVANT SCIENCES

The Deployment Process

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Deployment Steps

```
$ rake dev:up

$ rake test:all

$ rake package:create[<dsl>]

$ rake deploy:prod
```

Any questions?

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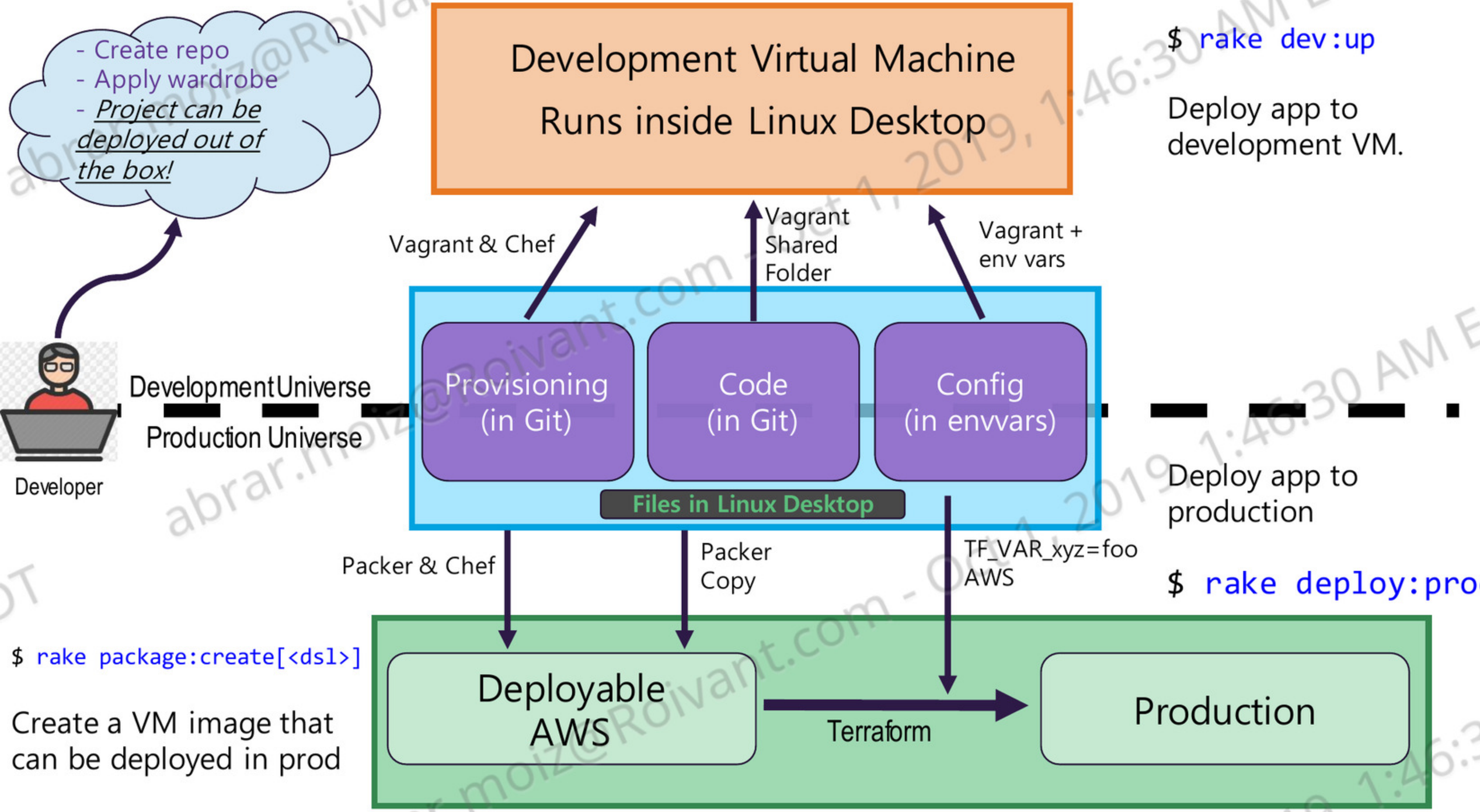
Bird's eye view



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Start a project

- Create a repo for project
- Clone it in Linux Desktop, apply wardrobe to it
  - This provides all the supporting structure
- App is deployable the moment wardrobe is applied

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Deploy to development

- `$ rake dev:up` in Linux Desktop deploys app to development VM
- Vagrant sets up the development VM
- Project directory mapped under /vagrant in development VM
- Chef sets up development environment (libraries, middleware etc)
- Use `rake dev:shell` to open a shell to your development VM

Constructing development VM

- Provisioned through Chef recipes under app directory in Linux Desktop and tracked using Git
- Your code is in app directory in Linux desktop, tracked using Git
- Configuration details is set via envvars
- Development environment settings geared towards that. E.g. live code reloading, working directory ...

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Deployment to production

- Keep in mind, every `rake dev:up` is a deployment of your app to the development environment

- Deploying to production takes the same structure, changes the values of some settings and variables, and creates an image suitable for a production environment

- In essence, this is no different than deploying to development.

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Deployment to production

- Packer and Chef are used to create an image suitable for being run in the "cloud" using the ***same*** structure as when your app is deployed to development VM

```
$ rake package:create[<dsl>]
```

- Packer copy puts that image on AWS

- Terraform injects configuration into an image to deploy a VM that is fit for purpose.

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Summary

- `$ rake dev:up` is deployment for development
- Deployment to development ***is*** deployment
- `$ rake deploy:prod` is deployment for users
- Development VM is a structural clone of production VM

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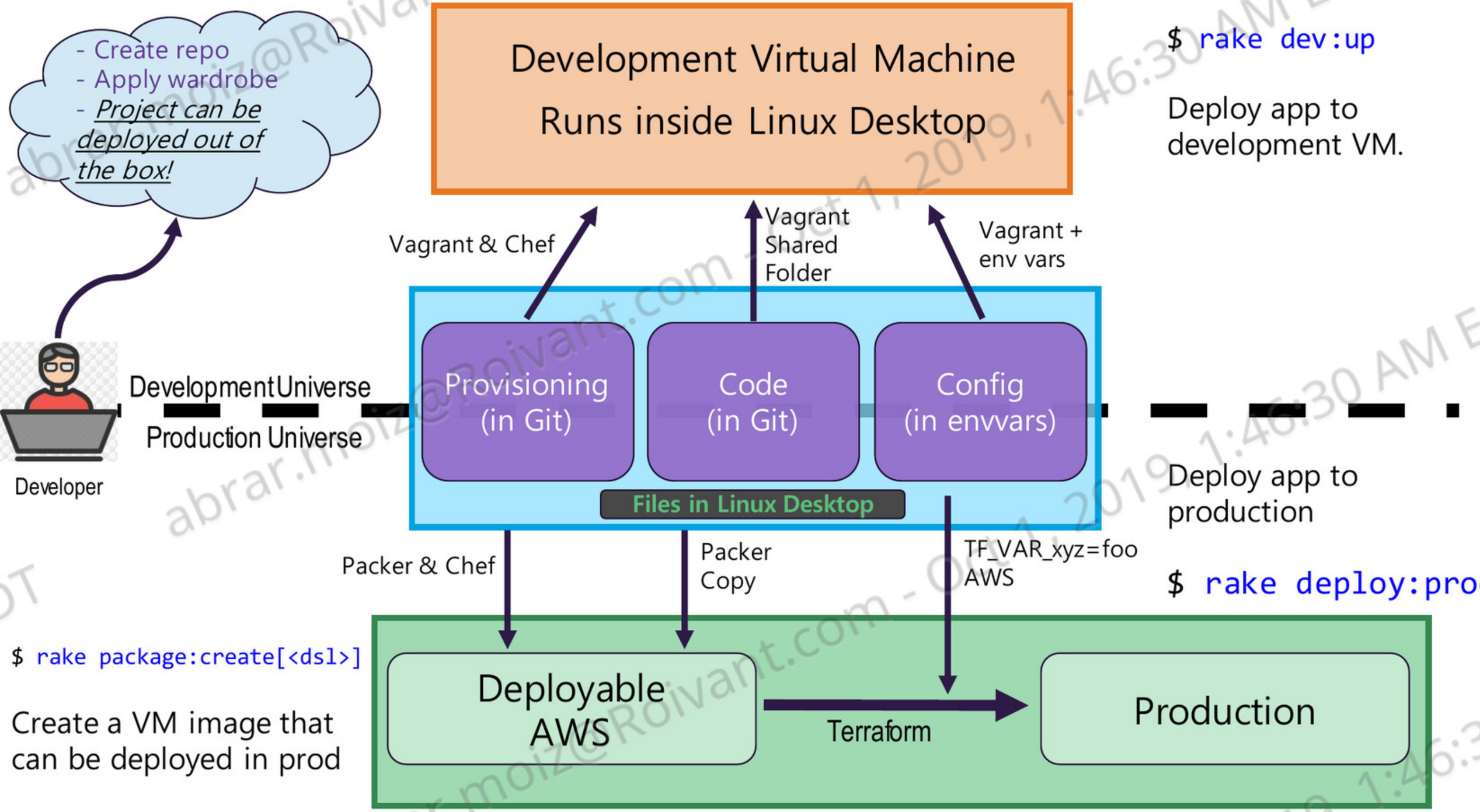
Bird's eye view



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Thank you!

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