Expanding Base Images

Paul Kirby
DEVOPS ENGINEER

www.paulkirby.me

Overview

Multi-Provider Builds

- VirtualBox with AWS

Post-Processors

- Vagrant – Let Your Devs Use Production!
- Compress

Atlas – Free Your Build Servers!

Globomantics Middle Tier

```
{

    "builders": [

        …

    ]

}
```

Multi-provider Builds

Parallelized (non-debug)

Reuse Provisioners

Cloud Providers, On-Premise VMs, Docker, Custom

Multi-provider Builds

Use of "only"

- `Packer build –only="provider" …`

Differences between Providers

- Sometimes large, sometimes small

Key: Maximize Provisioner Usage
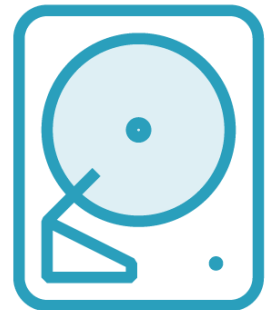
Demo

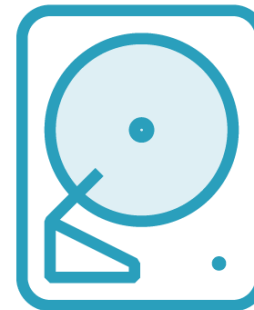**VirtualBox Build**
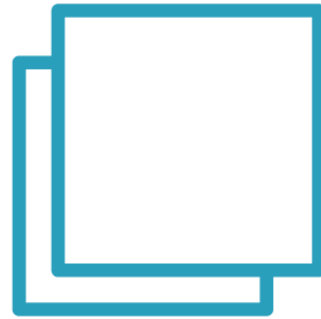- Easily Transferred to VMWare, etc.

Parallelization

Gotchas and Debugging Tricks

Globomantics Middle-tier
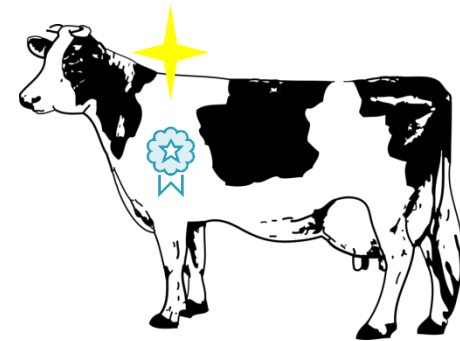
```
{

    "post-processors": [

        …

    ]

}
```

Post-processors

Finishing touches

Normal cow to show-ready cow!
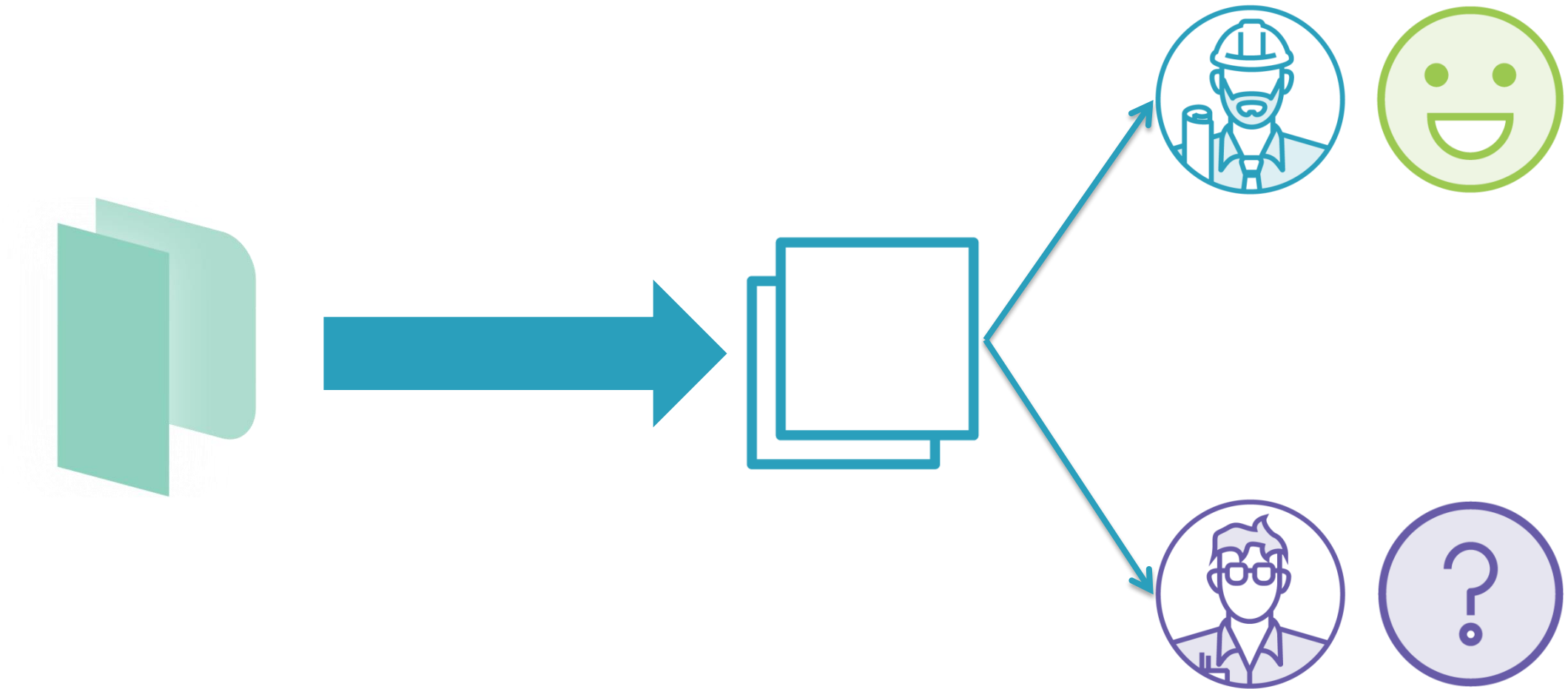
Good point for custom expansion

Compress!

Multiple compression formats

Non-cloud builders only

Customizable compression level

Keep uncompressed image (optional)

Globomantics Middle-tier

Vagrant!

Easily work with VMs locally

Packer post-processor included

Devs work with "production" hardware!
- Multi-box networks

Cheap hosting – next topic

VAGRANT

Demo

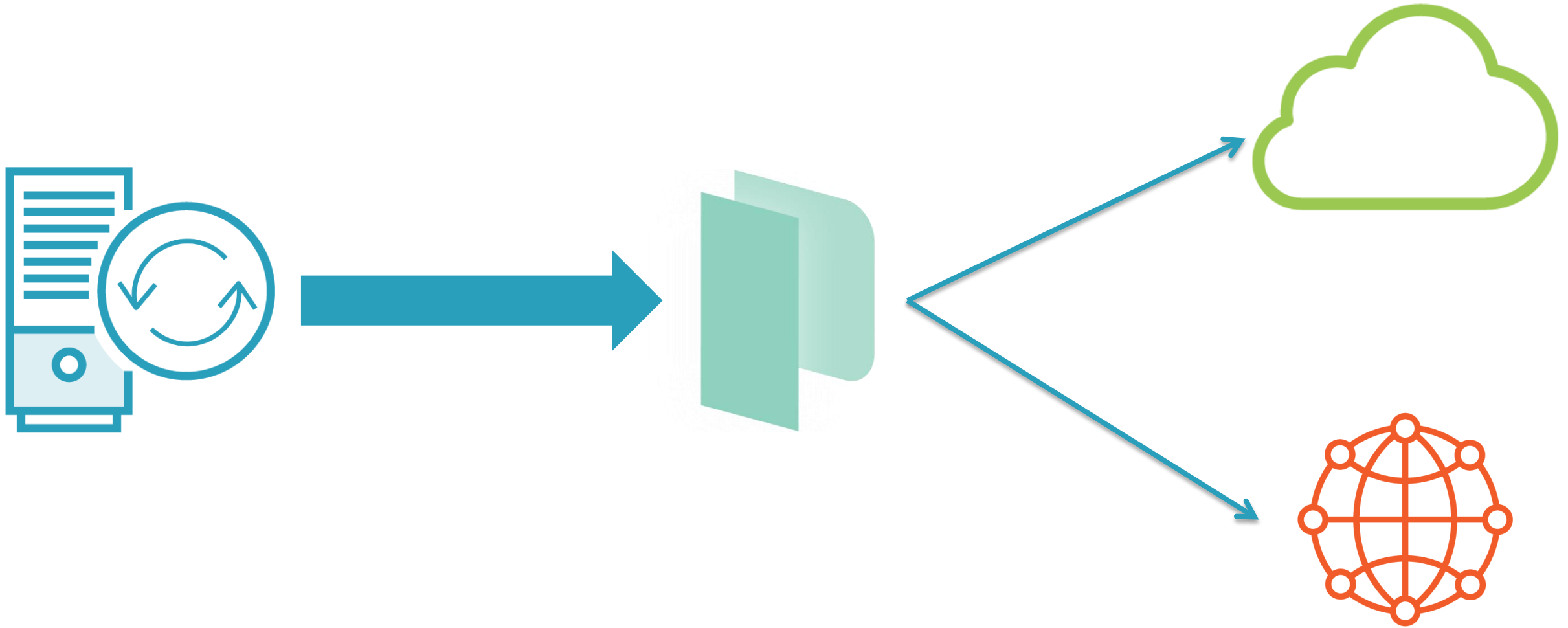**Shrink On-premise Image**
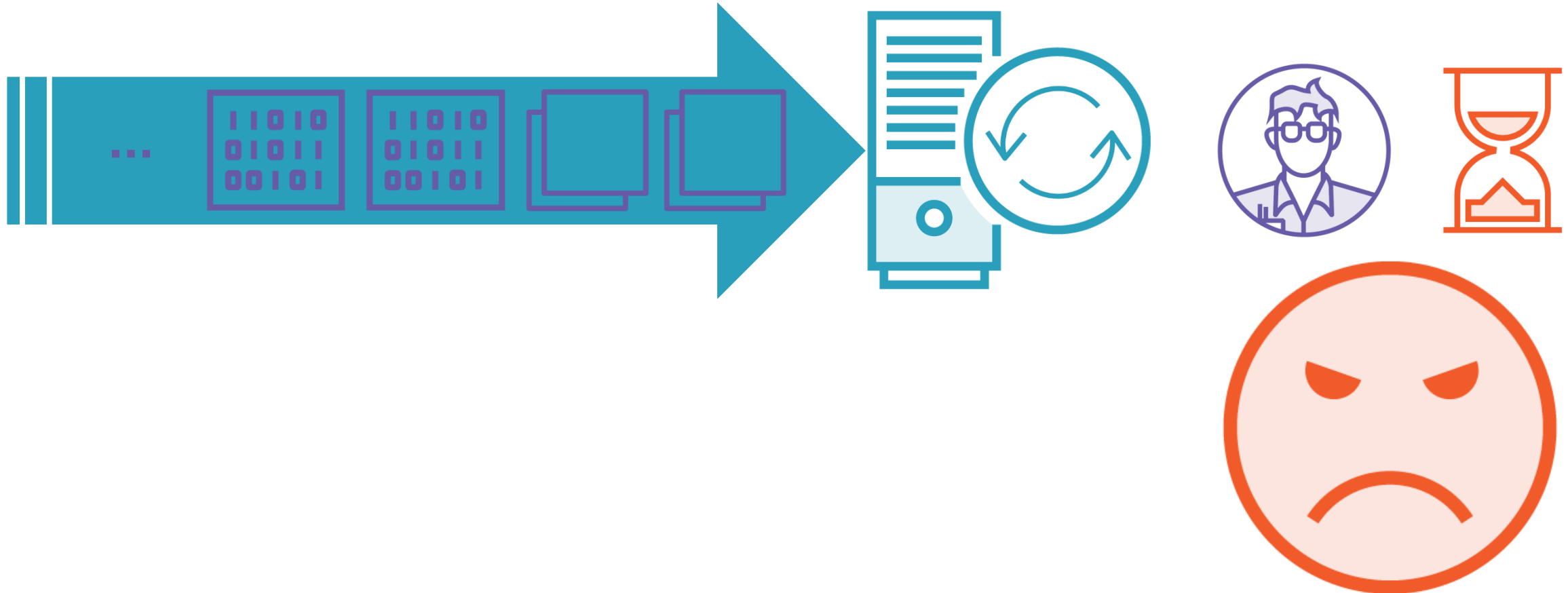
- .tar.gz compression

Make Developer VMs!

- Vagrant-ize VirtualBox

Globomantics Middle-tier

The Build Machine

The Solution - Atlas

Offload your Packer builds

- Asynchronous from your build process

Made to work with Packer

- Full logging
- Clean, fast build server
- Other awesome features

Hosts Vagrant boxes too!

Packer builds / Vagrant hosting $20/month

Asynchronous – Yikes!

Faster, but...

- Harder to know when build finished
- Harder to know if build errors

Solution: Notifications

Notifications

Slack/Hipchat   **PagerDuty**   **Email**   **WebHooks**

Demo

Let Atlas do the lifting!

- Setting up an account
- Basic build
- Differences/limitations
- Notifications
- Vagrant!

Summary

Multi-Provider Builds

- Same image everywhere!
- Maximize provisioner usage

Post-Processors

- Varied use-cases
- Consider Atlas

Next: I'm ready for Docker! I think?