

# Rapid Consul

SCAN ME



A presentation  
By  
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# Agenda

- Baselineing - about HashiCorp and Consul
- The Challenge
- Solution Overview
- Demo
- Wrap up & Next Steps

# Baselining



HashiCorp is

An innovative, privately held, San Francisco based software company

Making open source tools and commercial products

Enabling our customers to provision, secure, run and connect cloud-computing infrastructure

Consul is

One of the most popular open source tools produced by HashiCorp

It is a service networking solution that allows our customers to manage service configuration (the what), service discovery (the where) and service segmentation (the layout) of their applications and services.

It is user friendly, datacenter-aware and can be used without the expensive retrofitting of your applications, today.

# The Challenge



Acme Today desires

“An easy to manage, secure application that can be deployed, visualized and managed across multiple clouds/datacenters with as little overhead as possible”

- Has a web application and supporting database (Apache Derby)
- The communication between the two services is insecure (unencrypted)
- Acme would like to eliminate the use of expensive load balancers used in front of the web application
- Acme would like to improve the experience of managing these services and reduce the brittleness of the links between the services

# The Solution



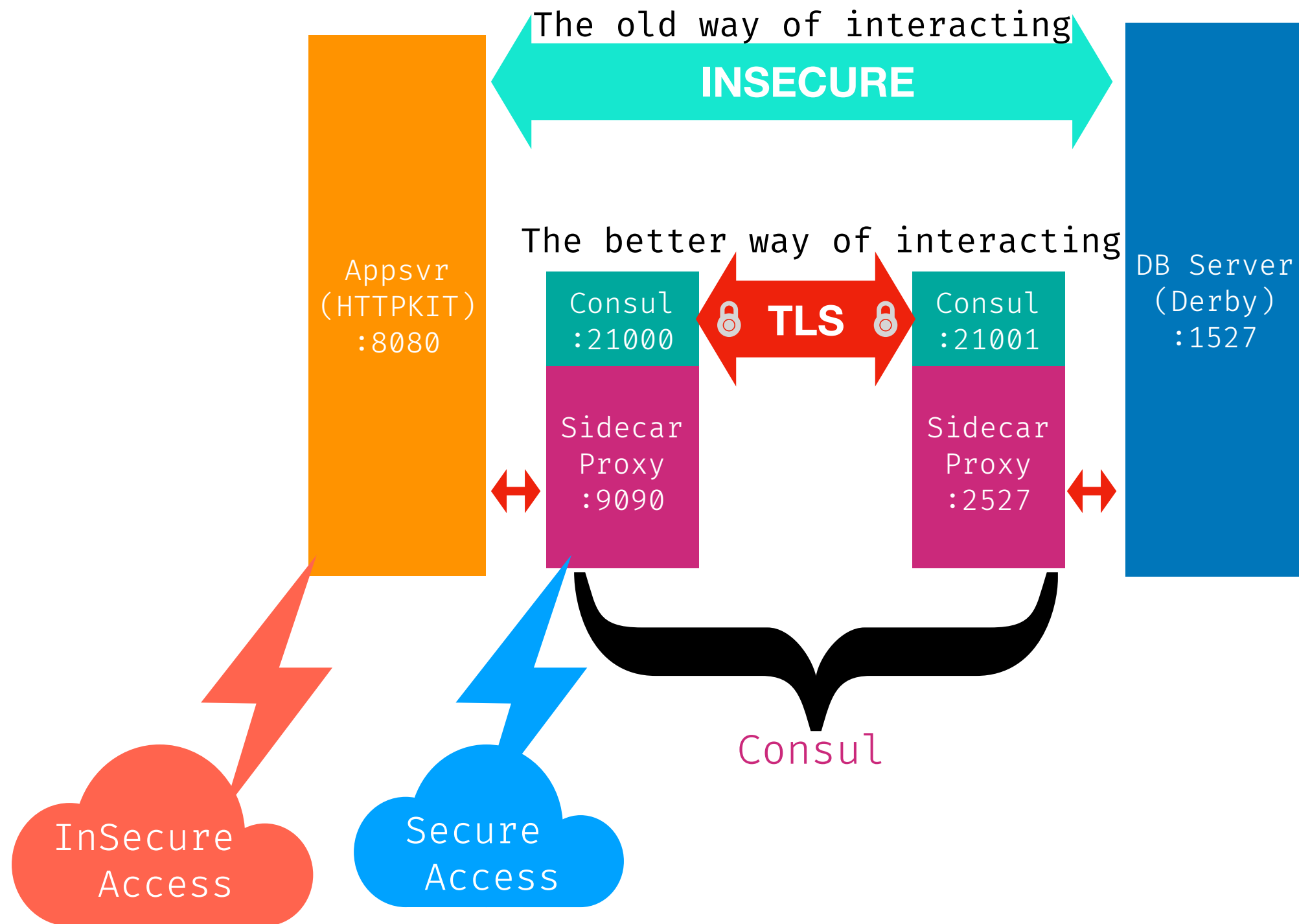
Use HashiCorp **Consul** to build a **service mesh** tying the application and its database together over a **secure manageable** connection that can be visualized and modified in real time.

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## What's the Value ?

- **Consul** will ensure secure communications through encryption between the two services without re-writing the services **saving you time and money**
- **Consul** is free and your engineers can configure the basic framework of the solution in minutes **reducing your time to value to hours**
- Your team will be able to **visualize** and **control access** to these services in the **Consul** Web Interface **in minutes** and have **a great experience** doing so
- Your will be easily able to **scale these benefits** to **other applications and services** with **even less effort** once the baseline is established

# The Solution 2



# Demo time



Available for **download** at

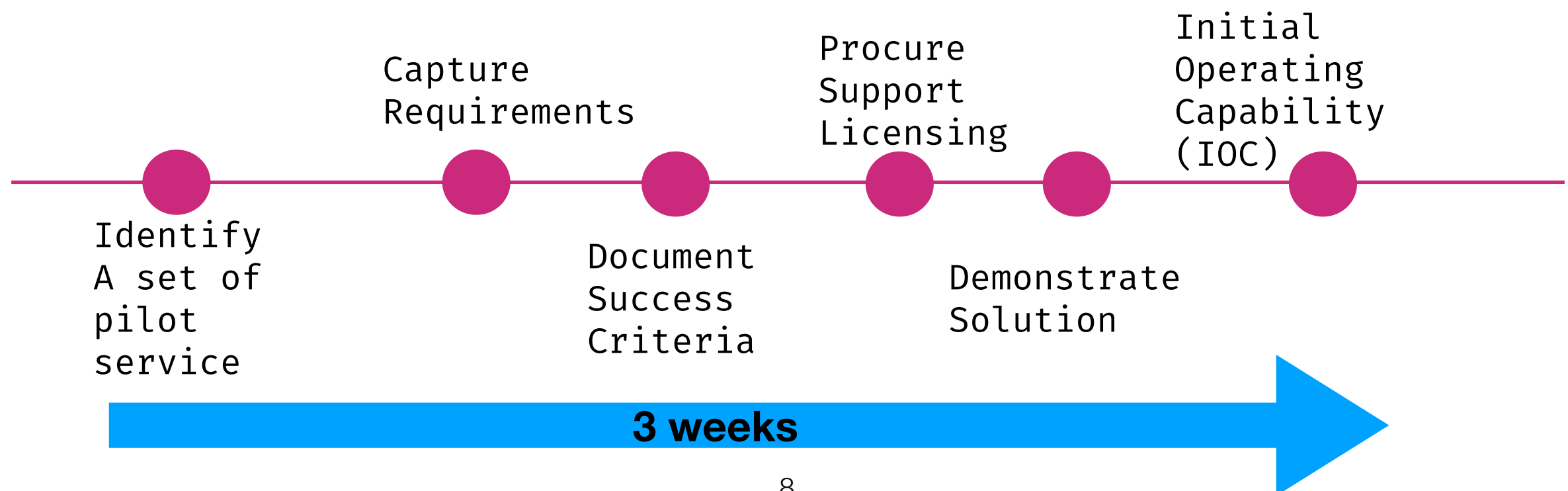
<https://github.com/jamesnyika/hashicorp-consul>

# Wrapup & Next Steps

In the demo we saw



- **Consul** securing two services without a re-write
  - Benefit: **solving the challenge while saving you time and re-implementation costs**
- **Consul**'s rapid configuration approach
  - Benefit: **reducing your time to value to hours**
- **Consul**'s clean and easy management interface
  - Benefit: ability to **visualize** and **control access** while having a **great experience** doing so
- **Consul**'s flexibility and configurability
  - Benefit: **scale these benefits** to **other applications and services** with **even less effort** once the baseline is established





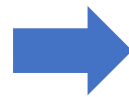


Thank You



# What It took – Anatomy of An Exercise

## Performed Tasks



**App Design**  
3 Hrs



**Learning Consul**  
4 Hrs



**Implementation & Verification**  
7 Hrs



**Presentation**  
8 Hrs



### App Dev Skills

### Learning Skills

### Experimentation Skills

### Communication Skills

Requirements Gathering  
Prior Experience  
Attention to Detail  
Confidence  
Software Lifecycle  
Programming

Patience  
Repetition  
Note Taking  
Exploration of Subject

Ideation  
Documentation  
Comfort with failure  
Web Research  
Familiarity with lots of tech tools

Understanding Business Value  
Summarization  
Messaging and Marketing

## Required Skills



**Consul**  
configuration is fast .. really is..

Wow! And it only took 22 hours ?



# Appendix



**All code/artifacts are at**

**<https://github.com/jamesnyika/hashicorp-consul>**