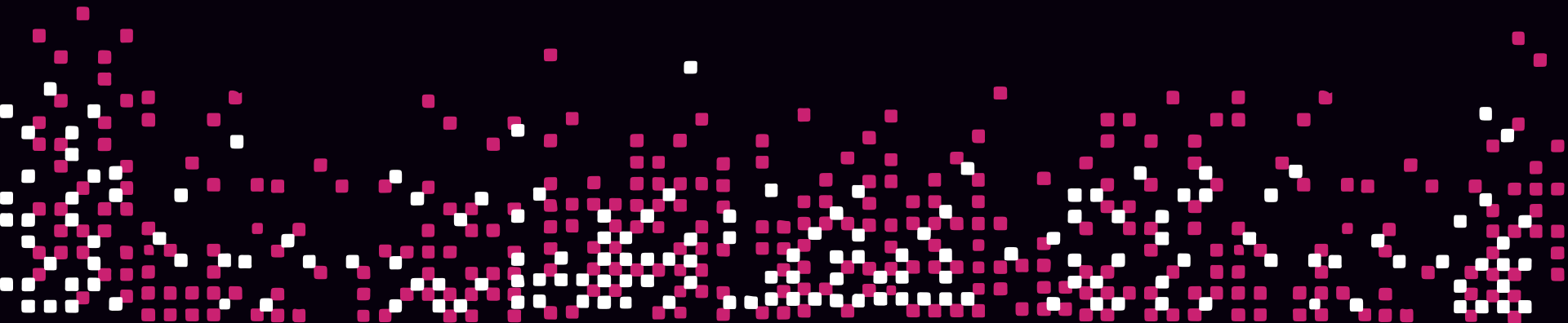




Getting Started with HashiCorp Consul





Who I Am: Bryan Krausen

What I Do: Principal Technical Consultant

Where I'm From: Central Kentucky

Why I Teach: Passion for Tech and Education

Experience w/ Consul: 3.5+ Years



Bryan Krausen

*Not Affiliated with HashiCorp



Follow Me on Twitter
@btkrausen



User: btkrausen
github.com/btkrausen/hashicorp



Use the Q&A to ask questions
Use message platform for private
conversations



Bryan Krausen

About the Course

Familiarize students with a variety of topics, including

- the core concepts of HashiCorp Consul
- key protocols used in Consul
- creating and managing a Consul cluster
- discuss service discovery and service mesh
- using Consul's KV store
- securing Consul with ACLs



Prepare students for the HashiCorp Certified: Consul Associate Exam



Training Format

Lecture & Slides

- Provide basis for discussion and topic at hand
- Make sure students understand terms and definitions
- Will set the stage for Consul lab environment
- Will attempt to be short and to the point

Consul Lab Environment

- Hands-on discussions using one or more Consul instances
- For the most part, demos will use Consul CLI and UI
- Use the default domain of .consul
- Consul will be deployed on AWS for lab environments



Course Content



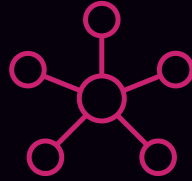
Slides

Available in PDF in
Each Section



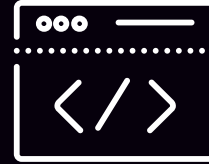
Resources

References Links
Available in Each
Section



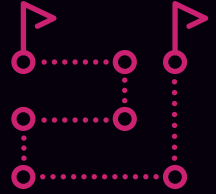
Mind Map

PDF of a Mind Map
for Each Section



Labs

PDF of Each Lab
Demonstration



Quiz

Quizzes Test Your
Understanding



Course Updates

- Will update the course as frequently as possible, as needed
- I proactively monitor the certification sites for changes
- New or updated content will be posted, and an announcement will be sent to students
- If you have feedback, please send me a message through the learning platform



About the Exam



EXAM DETAILS

- Type– Multiple Choice Questions*
- Duration – 1 Hour
- Language – English
- Remotely Proctored Exam
- Immediate Pass/Fail Feedback
- Certification Valid for 2 Years
- Acclaim Badged



EXAM CONTENT

- Consul 1.7 or Higher
- Tested on (9) Exam Objectives
- Prerequisites include:
 - containerization
 - basic terminal skills
 - load balancing architectures
 - distributed systems knowledge
 - understand the purpose of ACLs



Exam Objectives

Objective 1: Explain Consul Architecture

Objective 2: Deploy a Single Datacenter

Objective 3: Register Services and Use Service Discovery

Objective 4: Access the Consul Key/Value (KV)

Objective 5: Back up and Restore

Objective 6: Use Consul Service Mesh

Objective 7: Secure Agent Communication

Objective 8: Secure Services with Basic ACLs

Objective 9: Use Gossip Encryption



Exam Resources

Official Resources

- hashicorp.com/certification/consul-associate
- learn.hashicorp.com/collections/consul/certification
- learn.hashicorp.com/consul
- consul.io/docs
- consul.io/api-docs

Community Resources

- This course :)
- HashiCorp Certified: Consul Associate Practice Exam
- Video - Demystifying Service Mesh - youtu.be/bEFILWrJJ4
- Video - Consul Service Mesh – Deep Dive - youtu.be/Aq1uTozNajI





END OF
SECTION

