

"Certified Argo Project Associate Exam Prep Course"

Course Introduction:

The "Certified Argo Project Associate Exam Prep" course is designed to equip participants with the foundational knowledge and practical skills necessary to successfully pass the Certified Argo Project Associate Exam. This course covers all key aspects of the Argo ecosystem, including workflow orchestration, continuous delivery, and event-driven automation. Participants will gain an in-depth understanding of Argo components, best practices, and industry applications, ensuring they are prepared for both the examination and real-world scenarios.

Module 1: Introduction to Argo Project

- Overview of Argo Ecosystem: Understand the various components of the Argo project and their roles in enhancing Kubernetes-native applications.
- History and Evolution of Argo: Learn about the origins of the Argo project and its evolution within the cloud-native ecosystem.

Module 2: Argo Workflows

- Introduction to Argo Workflows: Explore the core concepts and architecture of Argo Workflows, a Kubernetes-native workflow engine.
- Workflow Creation and Management: Learn how to design, deploy, and manage workflows using YAML configuration files.
- Workflow Templates and Parameters: Discover how to utilize templates and parameters to create reusable and dynamic workflows.

Module 3: Argo CD

- Introduction to Argo CD: Gain insight into Argo CD, a declarative GitOps continuous delivery tool for Kubernetes.
- Application Management with Argo CD: Learn how to manage Kubernetes applications using GitOps principles.
- Sync and Rollback Strategies: Explore techniques for synchronizing application states and rolling back deployments.

Module 4: Argo Events

- **Introduction to Argo Events:** Delve into Argo Events, a Kubernetes event-based dependency manager.
- **Event Sources and Sensors:** Understand how to configure event sources and sensors to trigger workflows.
- **Integration with Argo Workflows:** Learn how to integrate Argo Events with Argo Workflows to build event-driven applications.

Module 5: Argo Rollouts

- **Introduction to Argo Rollouts:** Discover Argo Rollouts, a progressive delivery controller for Kubernetes.
- **Canary and Blue-Green Deployments:** Explore advanced deployment strategies such as canary and blue-green deployments.
- **Analysis and Metrics:** Learn how to use metrics and analysis tools to ensure successful rollout strategies.

Module 6: Security and Best Practices

- **Security in Argo Projects:** Understand the security considerations and best practices for deploying Argo components.
- **Best Practices for Workflow Design:** Learn the key principles for designing efficient and reliable workflows.

Module 7: Exam Preparation and Practice

- **Exam Format and Structure:** Get familiar with the format, types of questions, and structure of the Certified Argo Project Associate Exam.
- **Practice Questions and Mock Exams:** Engage with practice questions and mock exams to test your knowledge and readiness.
- **Tips for Success:** Gain strategies and tips for successfully passing the certification exam.

Module 8: Real-World Applications and Case Studies

- **Industry Use Cases:** Explore real-world applications of Argo in various industries such as finance, healthcare, and technology.
- **Case Studies:** Analyze case studies to understand the implementation and benefits of using Argo in complex environments.

By the end of this course, participants will be well-prepared to take the Certified Argo Project

Associate Exam and apply their skills in real-world settings, enhancing their proficiency in managing Kubernetes-native applications.

KOENIG
step forward