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Best kubernetes certification course

When containers first broke onto the scene, it was immediately apparent that it was a disruptive technology. What was not clear was how containers were going to be scaled and orchestrated effectively. In the early days, the container orchestration competition was intense, with applications such as Docker Swarm, Apache Mesos, and Kubernetes aiming to address this issue. However, in the last six years, Kubernetes has differentiated itself and pulled away as the clear container orchestration choice. The Cloud Native Computing Foundation (CNCF) backs this assertion in their yearly survey, with 92% of respondents using containers and 83% of respondents using Kubernetes in production. The widespread adoption can in part be credited to Cloud providers recognizing Kubernetes as the best choice. There are over 90 verified cloud platforms that offer Kubernetes as a service. And with all of this buy-in, it's not surprising that 451 research predicted a container technology market worth 4.3 Billion by 2022. Where Do I Fit In? Containers, Kubernetes, and the Cloud have changed the typical IT management architecture drastically in the last decade. The DevOps Engineer job title has popped up to address the new automation and container technologies and ever-changing landscape. Don't get flustered by the massive CNCF landscape; regardless of your IT journey, there is always a place for you in the Kubernetes ecosystem. Developers can leverage containers for repeatable, consistent application environments. When developers understand and utilize Kubernetes, they allow operations to understand the application and its requirements better. This cross-functional capability is a massive value add to businesses and organizations. Operations can use Kubernetes' expertise and its ecosystem to create observable, dependable environments that developers can work in. To take full advantage of container technologies, operation teams need to take the friction out of the development process. To do that, operations teams need to understand the barriers developers face and what each application requires. This insight will kickstart operations with the context they need to automate, scale, and observe their systems. Security teams have different requirements than the typical teams. The goal of containers is to increase development speed, and security teams need to enable that speed while keeping their environments secure. To achieve this, security teams need to understand the container ecosystem and leverage their existing security knowledge without interfering in the development process. What Can I Do? The CNCF and the Kubernetes ecosystem are incredibly welcoming, with many resources to help you get started or extend your knowledge. Along with the documentation, meetups, slack channel, website, the CNCF and Linux Foundations have partnered to create hands-on exams to educate and test your knowledge about Kubernetes. Currently, there are three certification exams available: These certifications are a great way to level up your knowledge of Kubernetes and are frequently used by recruiters and organizations to vet potential employees. Each exam is different, and this blog will discuss what you should know to pass the exams and provide resources to help you on your certification journey. Certified Kubernetes Application Developer The CKAD is built for developers who will interact in a Kubernetes environment. Application concepts and architectures, runtimes, and the programming language basics are essential. Widely considered the easiest of the three exams, the CKAD focuses on: Core Concepts Configuration Multi-Container Pods Observability Pod Design Services & Networking State Persistence It is best to review the documentation and candidate handbook, so there is no confusion about what you are signing up for. With that in mind, here a few resources to help you get started: Developers should start with this exam as it will be the most familiar; however, operations and security people may get more out of the CKA. Certified Kubernetes Admin The CKA is built for operations teams, sysadmins, and DevOps Engineers who will focus more on Kubernetes features and functionality over container runtimes. This exam is designed to test general knowledge and applicability of everything Kubernetes, including general workflow, storage, debugging, and more. The documentation highlights the following core competencies: Cluster Architecture, Installation & Configuration Workloads & Scheduling Services & Networking Storage Troubleshooting Like the CKAD, it is best to review the documentation and candidate handbook beforehand. Luckily, many excellent course reviews have been created over the years. Below, you'll find these links and a few other resources to help you get started: As stated previously, operation teams and their associates will get the most out of this exam. The CKA also serves as a requirement for the CKS exam, and it will be useful should you choose to pursue a more security-focused role. Certified Kubernetes Security Specialist The final feather in the cap comes courtesy of the CKS. The CKS is also created for operations and sysadmins but focuses on security considerations and tooling. Security teams will get significant use out of the CKA requirement since it teaches security teams about the day-to-day challenges of operation teams. Overall, both operations and security teams will get a lot of use out of the CKS. The documentation highlights the following core competencies: Cluster Setup Cluster Hardening System Hardening Minimize Microservice Vulnerabilities Supply Chain Security Monitoring, Logging, and Runtime Security The CKS is the newest exam and is slightly different from the CKA and CKAD. As always, read the documentation and candidate handbook before making any spending decisions. SlackRox is a massive supporter of the CKS and its community benefits. We have put in significant time to bringing you resources that will help you get started: The CKS is considered the most challenging exam, with a focus on Kubernetes and supporting security applications. It is also one of the most popular exams currently available as security talents become more widely valued. Conclusion The three Kubernetes certificates are one of the best hands-on exams for testing your Kubernetes knowledge. The industry widely recognizes the certificates as a reliable measure of competence. You can use them as a starting point to dip your toes in the Kubernetes ecosystem - or use it as a way to pad and validate your previous expertise. And with a free exam retake, it's hard to go wrong. We look forward to seeing your certificates posted on LinkedIn! Learn how to deploy and manage containerized applications on Google Kubernetes Engine (GKE). Learn how to use other tools on Google Cloud that interact with GKE deployments. This course features a combination of lectures, demos, and hands-on labs to help you explore and deploy solution elements—including infrastructure components like pods, containers, deployments, and services—along with networks and application services. You'll also learn how to deploy practical solutions, including security and access management, resource management, and resource monitoring. Intellipaat is offering you the most updated, relevant, and high-value real-world projects as part of the training program. This way, you can implement the learning that you have acquired in real-world industry setup. All training comes with multiple projects that thoroughly test your skills, learning, and practical knowledge, making you completely industry-ready. You will work on highly exciting projects in the domains of high technology, ecommerce, marketing, sales, networking, banking, insurance, etc. After completing the projects successfully, your skills will be equal to 6 months of rigorous industry experience. Hello guys, Kubernetes has become a very popular tool and skill today in the container management community, and it's one of the most in-demand skills and a must-learn tool for both DevOps engineers and Developers. It is a tool written in Golang and it is created by Google. There are many things you need to take care of when working in production environments with microservice patterns and containers. These include version control, health check, rollback mechanism, and scaling. Kubernetes provides the management and orchestration capabilities to deploy containers in accordance with all the necessary mentioned things. Kubernetes is very important for scaling your Microservice architecture by automatically deploying and managing containers as and when needed. Today, Microservice architecture and containers are in trend and Kubernetes is one of the best tools for orchestrating containers. Kubernetes has had one of the highest growth in job searches in recent times. There is a high demand for DevOps with Kubernetes and getting Kubernetes certification can distinguish you from other candidates. The certifications not only help you master Kubernetes but also increases your chance of getting a high-salary job. If you are looking for online training courses to learn Kubernetes architecture and use cases or preparing for Certified Kubernetes Adminsitrator (CKA) or Certified Kubernetes Application Developer (CKAD) you have come to the right place. In this article, I will list the top 5 Kubernetes online courses from popular online learning websites like Udemy, Coursera, Pluralsight, etc that you can take to learn Kubernetes in 2021 and pass these prestigious and in-demand Kubernetes certifications. Without wasting any more of your time here is a list of the best courses to learn Kubernetes in 2021. These courses are thought by expert instructors who know in and out of Kubernetes and are available on the best online learning websites like Udemy, Coursera, Pluralsight, and others. They are also a very affordable course and most of them can be purchased for just \$10 on Udemy sales. Rated over eleven thousand times, "Certified Kubernetes Administrator (CKA) with Practice Tests" is a best-seller Kubernetes course at udemy. The Certified Kubernetes Administrator (CKA) is regarded as a difficult course but the instructor explains every concept with ease and simplicity. Moreover, the course enables the students to access a strong community of other students and teachers. Along with proper explanation, the course also encourages practice. The course has a brilliant hands-on environment that will help you learning everything more clearly. Requirements Basic knowledge and understanding of Docker. Knowledge of YAML language Over forty-eight thousand students have enrolled in this course. The course is perfect, not only for DevOps but also for system administrators and application developers who seek to master Kubernetes. Another best-seller at udemy, "Learn DevOps: The Complete Kubernetes Course" is a course for those who want to learn how to build, deploy, maintain, and use with Kubernetes. This course covers some of the essential concepts such as running stateful and stateless applications on Kubernetes, using Docker client with Kubernetes, scaling, and more. Along with local, this course also has the option to use Kubernetes on AWS. So if you have prior knowledge of AWS, you can go for this option. Requirements Knowledge of AWS / Docker / AWS is recommended but not mandatory. If you are a beginner and wish to grab the core concepts of Kubernetes easily and in a simple way, "Kubernetes for Developers: Core Concepts" at Pluralsight is a very choice. This is a beginner-level course, that starts with the basics of Kubernetes, and then gradually moves to topics such as deploying containers using Kubernetes. The instructor, Dan Wahlin also focuses on the role of storage, ConfigMaps, and secrets. Requirements Basic knowledge of Kubernetes is recommended The length of the course is less than five hours. So if you want to learn core concepts quickly, you can go for this course. By the way, you would need Pluralsight membership to access this course which costs around \$29 per month or \$299 per year (14% discount). While it's worth taking Pluralsight membership as it gives access to their 7000+ high-quality online training courses you can also explore by taking their 10-day free trial which provides 200 minutes of watch time, enough to complete this course. "Kubernetes Certified Application Developer (CKAD) with Tests" is the highest-rated Kubernetes course at udemy. This course, along with proper explanations, also provides a hands-on environment. The hands-on exams are very useful in understanding the concepts. Moreover, the course also has coding quizzes. Requirements Basic understanding of system administration. Basic knowledge of application development using python. Basic knowledge of Kubernetes More than thirty-seven thousand students have enrolled in this course. Once enrolled, you have access to the community which includes other students and teachers. The community will help you in solving problems and guide you through the course. If you are an absolute beginner, then "Kubernetes for the Absolute Beginners - Hands-on" at udemy is the perfect choice for you. Even if you do not know what Kubernetes is, you can go for this course. The instructor spends over forty minutes only on the overview of Kubernetes. Requirements Basic understanding of system administration. Not only the overview, everything in the course is explained properly without any rush. So if you are an absolute beginner, this Kubernetes course is for you. Over fifty-six thousand students have enrolled in this course, more than any other course mentioned in this article. how to get certified in kubernetes. is kubernetes certification worth it

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