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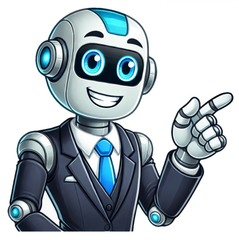

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The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. Choosing a career that promises growth and a high-paying job is the need of the hour. DevOps is one such career opportunity that gives you these benefits. The global DevOps market is projected to grow at a CAGR of 19.7% by the year 2028. With such growth, anyone would like to get into this career, for which you need courses that can give you in-depth knowledge.In this article, we'll look at some of the top and best DevOps courses, which also provide certifications. These certificates can also be uploaded to social media platforms (such as LinkedIn), and your chances of getting a high-paying job also increase. So, without wasting your time, let's get started:What is DevOps?DevOps (software development + operations) is a set of practices that includes software development and IT operations; it is the combination of tools that increases an organization's ability to deliver applications and services at high speed. DevOps allows the delivery of applications through continuous integration, delivery, and deployment.DevOps includes seven stages of the lifecycle -Continuous DevelopmentContinuous IntegrationContinuous TestingContinuous MonitoringContinuous FeedbackContinuous DeploymentContinuous OperationsBest DevOps Courses With CertificationHere are the top and Best DevOps courses renowned for their high ratings and comprehensive content. These courses are crafted to equip learners with the skills and knowledge essential to excel in the dynamic field of DevOps. With a strong emphasis on practical application and industry-relevant techniques, these courses cater to both beginners and experienced professionals seeking to enhance their expertise in DevOps.1. DevOps Engineering - Planning to Production [GeeksforGeeks]This is the best DevOps course, provided by GeeksforGeeks, which includes all core concepts. This is a beginner-level course that focuses on beginner to advanced core concepts like Git, Docker, Terraform, Jenkins, AWS CLI, etc. You must have prior knowledge of Git and computer fundamentals before starting this course. Through this DevOps course, you'll gain insights from industry experts to improve your ability to quickly release high-quality software. With the increasing demand for DevOps professionals, now is the perfect time to enhance your skills and knowledge in this high-demand field with this must-register course. Don't miss out on this chance to take your career to the next level!Key Highlights:Live interactive sessionsA comprehensive curriculum designed to take you from beginner to advanced levelsPractical exercises and projects to help you apply your knowledge and skillsAccess to a range of online resources and materials to supplement your learning experienceContests for self-assessmentCourse Content:Week 1 - Automation Using Shell Scripting & RedHat Linux AdministrationWeek 2 - Cloud Services & AWS FundamentalsWeek 3 - Source Code Management & Networking ConceptsWeek 4 - Package Management (Docker) Using Real-Time Scenarios & Understanding SonarQubeWeek 5 - Minor Project WeekWeek 6 - Continuous Integration and Continuous DeliveryWeek 7 - Deep Dive KubernetesWeek 8 - Working with Applications in KubernetesWeek 9 - AnsibleWeek 10 - Infrastructure As Code using TerraformWeek 11 - Monitoring And LoggingWeek 12 - Major Projects - Mentor and Self GuidedCourse Link: DevOps Engineering - Planning to Production Duration: 12 weeksCertificate: Available2. Google Professional Cloud DevOps Engineer [Google]Another important and highly-rated course for DevOps that provides certifications is Google Professional Cloud DevOps Engineer. This course includes each step and concept required to become a DevOps engineer. Professional Cloud DevOps Engineers implement processes throughout the system development lifecycle using Google-recommended methodologies and tools. They build and deploy software and infrastructure delivery pipelines, optimize and maintain production systems and services, and balance service reliability with delivery speed.You've got to appear for the exam to gain this DevOps course certificate. If you've got 3+ years of industry experience, including 1+ years designing and managing production systems using Google Cloud, this course is a must for you to grow in your cloud career.Course Content:Applying site reliability engineering principles to a serviceBuilding and implementing CI/CD pipelines for a serviceImplementing service monitoring strategiesOptimizing service performanceManaging service incidentsDuration: It Depends!Certificate: Available3. Continuous Delivery & DevOps [Coursera]Another best DevOps course for certification is Continuous Delivery and DevOps, provided by Coursera. This is a beginner-level course covering all the important concepts required to learn DevOps. You'll be gaining skills like continuous delivery, unit testing, infrastructure as code, system testing, and DevOps.You'll be able to-diagnose a team's delivery pipeline and bring forward prioritized recommendations to improve it,review and deliver automation tests across the development stack,explain how high-functioning teams use DevOps and related methods to reach a continuous delivery capabilityYou can also opt for the 'Full Course, No Certificate' option if you're here just to learn.Course Content:The Importance of Velocity & The Jobs of DeliveryYour Testing StackInfrastructure and The Jobs of OpsDelivering ContinuouslyDuration: 8 hoursCertificate: Available4. AWS Certified DevOps Engineer Professional 2025 - DOP-C02 [AWS]This is one of the best courses on DevOps for certifications, AWS Certified DevOps Engineer Professional 2025 - DOP-C02 offered by Udemy. You need to have at least basic knowledge of how AWS works and should hold at least an associate-level certification in AWS (AWS Certified Developer Associate is preferred). This course covers in-depth topics on AWS and is packed with practical knowledge on how to use AWS.You'll get access to 17+ hours of on-demand video, 16 articles, 1 downloadable resource, 1 practice test, and a certificate of completion. This is a fast-paced course providing lifetime access and a 30-day "no questions asked" money-back guarantee.Course Content:AWS Certified DevOps Engineer ProfessionalCode and Slides DownloadSDLC Automation (Domain 1)Configuration Management and Infrastructure as code (Domain 2)Monitoring and Logging (Domain 3)Policies and Standard Automation (Domain 4Incident and Event Response (Domain 5) & HA, Fault Tolerance, and DR (Domain 6)Other ServicesContent Wrap-upDuration: 17+ HoursCertificate: Available5. Decoding DevOps with Projects [Udemy]This course offered by Udemy, "DevOps Beginners to Advanced | Decoding DevOps with Projects covers all the basic concepts every DevOps engineer must know. This course has 54+ hours of on-demand video, 16 articles, 98 downloadable resources, and a certificate of completion. This course starts with the very basics of the command line and includes hands-on demonstrations of many tools and technologies.Also, most importantly, it will show you how various technologies in DevOps work together by setting up your own projects.Course Content:IntroductionPrerequisites Info & SetupVM SetupLinuxVagrant & Linux ServersVProfile Project Setup Manual & AutomatedNetworkingIntroducing ContainersBash ScriptingAWS Part-1AWS Cloud for Project Set Up | Lift & ShiftRe-Architecting Web Apps on AWS Cloud [PAAS & SAAS]GitMavenContinuous Integration with JenkinsPythonAnsibleAWS Part-2AWS CI/CD ProjectDockerKubernetesApp Deployment on Kubernetes ClusterCICD for Docker Kubernetes Using JenkinsTerraform TutorialCloudFormation TutorialConclusionDuration: 54.5 hoursCertificate: Available6. Learn DevOps: The Complete Kubernetes Course [Udemy]Another course for DevOps certification offered by Udemy is Learn DevOps: The Complete Kubernetes Course. This course has 14+ hours of on-demand video, 1 article, 1 downloadable resource, 2 practice tests, and a certificate of completion. This course will explain how to install the software, Kubernetes on-prem, knowledge about Linux/Docker/AWS, etc.This course will help you gain an understanding of how to deploy, use, and maintain your applications on Kubernetes. If you are into DevOps, this is a technology you need to master. Kubernetes has gained a lot of popularity lately, and it is a well-sought skill by companies.Course Content:IntroductionIntroduction to KubernetesKubernetes BasicsAdvanced TopicsKubernetes AdministrationPackaging and Deploying on KubernetesGitOps with KubernetesServerless with KubernetesMicroservicesInstalling Kubernetes with kubeadmInstalling Kubernetes with EKSOn-Prem or Cloud Agnostic KubernetesCourse CompletionDuration: 14+ HoursCertificate: Available7. DevOps Culture and Mindset [Coursera]Coursera provides another great DevOps course for certification: DevOps Culture and Mindset. This is a beginner-level course that slowly and steadily moves from beginner to advanced-level concepts. It gives you the basic foundational principles of DevOps, with a particular focus on culture and the DevOps mindset. You'll learn about concepts like feedback loops, continuous improvement, loosely coupled architecture and teams, managing risk, and dealing with unplanned work.Also, you'll learn about various organizational models and structures that are used by companies in their DevOps transformations. This is a must-register course that provides all the basic ideas on how to work with DevOps principles.Course Content:Introducing DevOps ConceptsWorking With DevOps MindsetKeeping Work Organized With DevOpsUsing DevOps to Speed Up Time to MarketDuration: 14 hoursCertificate: Available8. DevOps, CI/CD(Continuous Integration/Delivery for Beginners [Udemy]This DevOps course provided by Udemy is a beginner-level course, specially made for beginners. You only need to know the basic software development lifecycle at a beginner's level. This course is made for beginners in the CI, CD, and DevOps worlds who are interested in building a strong foundation on the basic concepts.In this course, you'll learn the basic concepts of continuous integration, continuous delivery, and continuous deployment, how CI/CD/DevOps evolved step by step, and understand the pain points of the SDLC process.Course Content:The Basics - CI, CD, and DevOps [13 Lectures]Duration: 1 HourCertificate: Available9. Microsoft Certified: DevOps Engineer Expert [Microsoft]One of the best courses on DevOps for certification is Microsoft Certified: DevOps Engineer Expert provided by Microsoft. Candidates for this certification must have experience administering and developing in Azure and have strong skills in at least one of these areas. They should be familiar with both Azure DevOps and GitHub.You'll learn skills like designing and implementing strategies for collaboration, code, infrastructure, source control, security, compliance, continuous integration, testing, delivery, monitoring, and feedback.Topics Covered:Configure processes and communicationsDesign and implement source controlDesign and implement build and release pipelinesDevelop a security and compliance planImplement an instrumentation strategyCourse Content:AZ-400: Get started on a DevOps transformation journeyAZ-400: Development for enterprise DevOpsAZ-400: Implement CI with Azure Pipelines and GitHub ActionsAZ-400: Design and implement a release strategyAZ-400: Implement a secure continuous deployment using Azure PipelinesAZ-400: Manage infrastructure as code using Azure and DSCAZ-400: Design and implement a dependency management strategyAZ-400: Implement continuous feedbackAZ-400: Implement security and validate code bases for complianceDuration: 2 HoursCertificate: Available10. DevOps: The Big Picture [Pluralsight]DevOps: The Big Picture is another course for DevOps Certifications by Pluralsight. In this course, we look at the problems faced by today's IT departments and how a DevOps transformation can help focus on value and streamline delivery. Automation and technology play huge roles in DevOps success; in this course, we'll analyze the major capability areas and which technologies can get your team on its way.Anyone who wants to learn DevOps should take this course! If you want to transition to a more streamlined system development lifecycle, then this course will help you learn how to get there.Topics Covered:Key cultural changes necessaryWhere the organizational change is requiredHow to confront the inevitable objectionsCourse Content:Course OverviewWhy DevOps Is Important Right NowAdopting DevOps Culture, Practices, and TechnologiesDuration: 1 hour 10 minutesCertificate: AvailableConclusionThe courses mentioned above are the top 10 ones that are the highest-rated and must-register courses. These courses are taught by industry experts and well-experienced mentors. They have all the concepts taught very thoroughly, with doubt sessions available. Go ahead and register for the course now and become a DevOps engineer. Also Read DevOps is really hot at this moment, and many job opportunities are lying for distinguished engineers and DevOps professionals. If you are an experienced Java programmer and want to become a DevOps engineer, then you have come to the right place. In this article, I am going to share some of the best online training courses you can take to become a DevOps professional. The most crucial advantage of DevOps is that it helps you to deliver better software and provide more control over your environment and software development process with the help of modern tools and automation. That's the reason the demand for DevOps professionals is growing exponentially. It's also one of the high-paying jobs along with Data Science and Machine learning specialists. DevOps engineers are making anywhere from $105,000 per annum to an average of $146,000 in San Francisco, as per Glassdoor. This means if you are looking for a pay hike or want to earn more money on your golden days with some exciting work, learning DevOps can be a good option. Nowadays, learning about continuous integration tools like Jenkins and containers like Docker, along with general DevOps skills, is gaining massive momentum in the technology sector. It's similar to how mobile app development was a few years ago. Companies are expecting new developers to manage the full lifecycle of their web applications. This means both developing and deploying your apps. To become a competent DevOps engineer, you have to expand your knowledge about different tools used in software development, like build tools like Maven, Ant, and Gradle, unit testing tools, like JUnit and Selenium. Deployment tools, like Docker, monitoring tools, like New Relic, infrastructure automation tools like Chef and Puppet, source control tool like Git, and GitHub, and continuous integration tools like Jenkins and TeamCity. These courses provide an excellent introduction to essential DevOps tools. IF you are in rush, you can also start with the DevOps Masterclass 2024: Terraform Kubernetes Ansible Docker, this course covers DevOps in great detail and also teach you all essential DevOps tools discussed above like DevOps with Jenkins, Terraform, Git, Docker, Maven Kubernetes, Ansible Automation, Docker Swarm, and most importantly with real world DevOps exercises 15 Best DevOps Courses for Experienced Developers in 2025 Without wasting any more of your time, here is my list of some of the best courses to learn DevOps and the essential tools required for implementing automation in your software development and deployment process. DevOps looks at software development in a whole new way. You can automate and build configurations for infrastructure servers and then address areas of automation, continuous deployment, containers, and monitoring. In this 48 hour long, Udemy best selling course you will learn DevOps from scratch. This is an ideal course for beginners as you will learn essential DevOps skills and technologies like AWS, Linux, Scripting, Jenkins, Ansible, K8s, Git, Docker, and Puppet are the foremost tools in the modern DevOps world, and this course teaches you all. In short, a great introductory course for anyone new to the DevOps field, like system administrators, developers, and IT professionals, and also provides a good overview of essential DevOps tools. If you are looking for a comprehensive DevOps course to not just learn DevOps concepts and tools but also master practices then this course is for you. The "Ultimate DevOps Bootcamp" stands as an unparalleled resource for individuals eager to embark on a comprehensive DevOps learning journey. With an impressive rating of 4.6 out of 5 from 2,931 reviews and an enrollment of 25,524 students, this course is a testament to its effectiveness and relevance in the field. Created by DevOps expert Mumshad Mannambeth, founder of KodeCloud training the course is available in English and offers auto-generated subtitles in both English and Korean, ensuring a broad audience can benefit from its content. This is also one of the most comprehensive course with 17.5 hours of content and covers fundamental DevOps skills, offering in-depth knowledge of popular tools in DevOps, including Orchestration and Containers. You will gain a thorough understanding of containerization technologies such as Docker, Kubernetes, and OpenShift, as well as orchestration tools like Ansible, Puppet, and Chef. Additionally, the course covers networking and application basics, providing a well-rounded foundation. For those looking to dive into programming, the course offers a starting point with Python. Whether you are beginning your DevOps journey or seeking to enhance your skills with the latest tools and technologies, the "Ultimate DevOps Bootcamp" on Udemy promises a robust and comprehensive learning experience. Here is the link to join this course - The Ultimate DevOps Bootcamp This is another awesome course to learn about DevOps in Azure platform. The "Learn DevOps: Docker, Kubernetes, Terraform and Azure DevOps" course on Udemy caters to absolute beginners, offering a comprehensive introduction to essential DevOps tools and practices. With an impressive rating of 4.5 out of 5 from 12,696 reviews and a substantial enrollment of 126,893 students, this course is designed to equip learners with foundational knowledge in the rapidly evolving field of DevOps. Created by DevOps and Cloud expert Ranga Karnam, the course covers a range of crucial DevOps tools, including Docker, Kubernetes, Azure DevOps, Jenkins, Terraform, and Ansible. You will learn DevOps fundamentals, including Continuous Integration (CI), Continuous Deployment (CD), and Infrastructure as Code (IAC), all tailored for individuals with no prior experience in the field. The course delivers exceptional value, featuring 21 hours of on-demand video, 27 articles, and additional resources. Whether aiming to kickstart a career in DevOps or enhance existing skills, this course provides a comprehensive and beginner-friendly learning experience. This is another awesome course to learn Docker, an integral tool for DevOps Engineer on Udemy This 4.5 hour long course is created by Mumshad Mannambeth of KodeCloud and in this course you will learn Docker with hands-on Coding exercise. Docker is one of the vital technology for DevOps. It allows you to bundle components together and deploy them on the container on any platform, like - Linux or Windows. This course covers all the fundamentals of Docker software and teaches you everything you need to know about developing and deploying modern applications with Docker software. Jenkins is probably the most essential tool for DevOps engineers as it offers Continuous integration. For a DevOps professional, a good knowledge of continuous inspection, continuous integration, and continuous deployment, and the difference between them is mandatory. This course covers all the fundamentals about Jenkins and teaches you everything you need to know to set up a Jenkins build pipeline starting with continuous inspection (build, test, and static analysis) all the way to continuous deployment(deploy to staging and production). When Google started running containers a decade ago, nobody could reach this kind of infrastructure agility and efficiency. Using this knowledge, Google released Kubernetes as a free and open-source project. Nowadays, Kubernetes is used by small companies and big enterprises who want to gain the efficiency and velocity Google has. Kubernetes has also become an important deployment tool for running your application and services on Cloud and that's why an important tool for DevOps Engineers, and that's where this Kubernetes course from Udemy can be crucial. This online Kubernetes course will teach you how you can run, deploy, manage, and maintain containerized Docker applications on Kubernetes or K8s, as it known popularly among DevOps. This course is also created by Mumshad Mannambeth of KodeCloud training and thousands of learners have joined this course on Udemy to learn Kubernetes for DevOps. This is one of the most complete courses on DevOps on Udemy, which will teach you most of the essential tools and technologies used by DevOps engineers. The course is aimed at software engineers and system administrators that want to deliver better software and help you to excel in delivering and deploying software using Git, Vagrant, Chef, Ansible, Jenkins, Docker, and Kubernetes. This is a short, crash course to learn about CI CD, DevOps and the concepts of Continuous Integration, Continuous Delivery / Deployment, DevOps and pipeline and I suggest every DevOps Engineer should go through this course to learn the basics of CI/CD pipeline which is key for practical implementation of DevOps If you want to learn Docker for DevOps in depth and looking for best online course then this Udemy course is perfect for you. This course shows you what you can build with Docker and How to do it, and you'll learn the Docker basics along the way! You will also be developing and deploying a multi-service Flask and Ruby on Rails. Another great thing about this course is that its updated for Docker v19.03+ and you will learn how to build and deploy web applications with Docker in an automated way. Infrastructure automation is a big part of DevOps and tools like Ansible, Chef, Puppet helps a lot but Terraform has gained a lot in popularity lately and is the tool you need to master if you are or about to get into an Ops / DevOps role. Terraform starts from the same principle, infrastructure as code, but focuses on the automation of the infrastructure itself. Your whole Cloud infrastructure (instances, volumes, networking, IPs) can be described in terraform. In this course, you will learn about how to automate your infrastructure with terraforming along with AWS, Packer, Docker, ECR, ECS, and Jenkins. If you are puzzled about what is continuous integration (CI), continuous delivery, and continuous deployment (CD) and how to do DevOps with Amazon Web Service, like AWS and Jenkins, then this is the right course for you. Although this course is aimed at experienced developers preparing for AWS DevOps Engineer certification, its one of the most comprehensive and engaging course to learn about DevOps on AWS Cloud platform. In this course, you will learn essential DevOps skills along with Continuous integration and continuous delivery in the AWS cloud. This course is created by none other than Stephane Maarek, one of the Udemy's most popular AWS instructor and an AWS Hero, I am sure you will love this course. This online DevOps course will teach you how to build sophisticated continuous integration and continuous delivery pipelines using Jenkins and many of its plugins. Especially the pipeline plugins. This course is designed to teach you the ins and outs of Jenkins and setting up DevOps pipelines, even if you have little to no experience with it, to help implement these DevOps practices, which will streamline your development processes. In short, an excellent course of building continuous integration, continuous delivery, and DevOps pipelines with Java, Gradle, Maven, Artifactory, and Sqitch. If you are looking for a hands-on DevOps course that cannot only explain to you the role of a DevOps engineer but also provide hands-on experience on essential DevOps tools, then this is the course for you. It provides a complete tutorial of essential DevOps technology. You will learn Automate Continuous Integration/Delivery process with Ansible, Jenkins, Git , Docker on AWS through a step by step, practical tutorial. This 9-hour long DevOps Fundamentals course on Udemy is created by Rahul Shetty, one of the popular Udemy instructor. More than 21,000 experienced developers have already joined this course on Udemy and it has got on average 4.5 rating. If you prefer to learn from text-based, interactive courses rather than watching video courses then you will love this DevOps for DevOps program on Educative.io, one of the leading portal to learn technical skills online. This is a skill path and it contains multiple courses, each focusing on specific Devops skills and tools, which means by joining this path you will get a chance to learn most of the essential DevOps tools I have mentioned before from Git to Jenkins, and Docker, Kubernetes to Terraform. You will also learn about Docker and Kubernetes and utilize clusters for building, testing, and deploying applications. As you progress, you will not only gain a solid understanding of advanced Kubernetes features such as monitoring, alerting, logging, and scaling but also explore the application of Jenkins X for continuous integration and continuous deployment (CI/CD). The curriculum goes beyond the basics, introducing you to chaos engineering as a valuable tool. Docker and Kubernetes, integral components of technology stacks worldwide, are pivotal for the future of DevOps roles. This is also one of the comprehensive program comprising 50 hours, 874 lessons, 157 quizzes, 374 playgrounds, 3158 code snippets, and 657 illustrations, offers a comprehensive learning experience. By the end of this course, you will possess cutting-edge skills and hands-on expertise, positioning you to excel in any DevOps role and stay at the forefront of technological advancements. Here is the link to join this program - DevOps for Developers on Educative By the way, you can either join this course individually or you can take an educative subscription (recommended) to get access to their 750+ high quality, text-based, interactive courses to learn key skills for coding interviews, software development, and technology. 14. Preparing for Google Cloud Certification: Cloud DevOps Engineer Professional Certificate If you not just want to learn DevOps but also want to get certify then this Coursera professional certificate is for you. This certification will not only teach you everything you need to know about DevOps, in particularly on Google Cloud but also prepare you for prestigious Google Cloud DevOps Engineering Certification. In this certification, you will acquire the essential skills necessary for success in a cloud DevOps engineering role. The curriculum is designed to prepare you thoroughly for the Google Cloud Professional Cloud DevOps Engineer certification exam. Throughout the five-course series, you will delve into techniques for monitoring, troubleshooting, and enhancing both infrastructure and application performance within the Google Cloud environment, guided by the principles of Site Reliability Engineering (SRE). The program not only focuses on technical aspects but also emphasizes broader concepts such as SRE Culture, Business Value, Organizational Culture, and key Google Cloud services like Google Compute Engine, Google App Engine (GAE), and the overall Google Cloud Platform. This program not only equips you with the skills needed for a successful career in data engineering but also aids in achieving the industry-recognized Google Cloud Professional DevOps Engineer certification. Great thing about this certification is that 87% of Google Cloud certified users reported feeling more confident in their cloud skills after completion. Talking about social proof, more than 53K students have already joined this certification. In short, one of the best online certification to advance your career as an SRE & DevOps Engineer in 2025 and I highly recommend it to any serious DevOps Engineer or aspirants. By the way, If you are planning to join multiple Coursera courses or specializations, then consider taking a Coursera Plus subscription which provides you unlimited access to their most popular courses, specialization, professional certificate, and guided projects. It costs around $59/ per month but is worth it because you get access to more than 7000+ courses and projects, and you can also get unlimited certificates. This course covers DevOps in great detail and also teach you all essential DevOps tools discussed above like DevOps with Jenkins, Terraform, Git, Docker, Maven Kubernetes, Ansible Automation, Docker Swarm, and most importantly with real world DevOps exercises The DevOps RoadMap Here is also a nice visual DevOps RoadMap created by @VrashTwt on Twitter which you can use as a guide to know what tools, technologies, and concepts a DevOps Engineer should be familiar of. There is no need to learn everything as it would take forever but it's good to know about them to broaden your knowledge. That's all about some of the best courses to learn DevOps in 2025 and become a DevOps engineer. As I said, the demand for competent DevOps engineers and software developers are growing exponentially, and there are not enough DevOps professionals in the market to support this demand. This means it's an excellent opportunity to learn DevOps and move into this more responsible, high-paying, and exciting job. The DevOps engines are making anywhere from 120K USD to 150K USD on average. If you are thinking of becoming a DevOps engineer in 2025, these courses are a great place to start with. Other Useful Resources for Programmers and Developers Thanks for reading this article so far. If you like these best DevOps Courses, then please share them with your friends and colleagues. If you have any questions or feedback, then please drop a note. P. S. - If you want to focus more on Docker and Kubernetes then I also suggest taking a look a the Docker and Kubernetes: The Complete Guide course by Stephen Grider. It's a greater course to learn Docker and Kubernetes in depth. Configure your source and data warehouse in just a few clicks. Set up and maintain your data pipelines without writing a single line of code. Get analytics-ready data in your fingertips. Configure your source and data warehouse in just a few clicks. Set up and maintain your data pipelines without writing a single line of code. Get analytics-ready data in your fingertips. Use Python scripting, dbt models and a low-code GUI to craft precise transformations that ensure your data is always query-ready at the destination. Use Python scripting, dbt models and a low-code GUI to craft precise transformations that ensure your data is always query-ready at the destination. Automatically handle schema drifts and intelligently recover record failures. Get proactive alerts on changes. No manual intervention needed. Automatically handle schema drifts and intelligently recover record failures. Get proactive alerts on changes. No manual intervention needed. April 27th, 2025 By Srujana Maddula in Data Integration In the modern business landscape, data drives innovation and efficiency. Gone are the days when data could be stored in just one place. Today's world demands that data be updated... April 24th, 2025 By Ishwarya M in Data Warehousing, Kafka, Versus Based on a report, Apache Kafka stores and streams more than 7 trillion real-time messages per day. However, fetching real-time messages from external sources or applications is a tedious process... April 23rd, 2025 By Nicholas Samuel in Platform, Product Data integration is an essential task in most organizations. Many organizations generate huge volumes of data, which is not always stored in a single location but in different locations, including... April 23rd, 2025 By Arjun Narayan in Platform, Product Fivetran and Azure Data Factory, also known as ADF, are two popular names when it comes to data integration. Both powerful platforms are used for moving data sources to your... April 23rd, 2025 By Nikhil Annadanam in Platform, Product Companies today have structured and unstructured data in multiple SaaS applications, databases, etc. Moving their data into a data warehouse/ data lake for analytics can be a challenge. Many companies... April 23rd, 2025 By Khawaja Abdul Ahad in Data Integration "Data scientists spend 80% of their time cleaning and organizing data—and only 20% actually analyzing it." - Forbes It's a painful truth. You hire a data team to uncover insights,... April 23rd, 2025 By Raj Verma in Data Strategy, Versus No matter where you work or what you do, data will always be a part of your process. With every organization generating data like never before, it is essential to... April 23rd, 2025 By Arun Chaudhary in Data Strategy, Versus Integrating and transforming data efficiently is crucial for businesses seeking actionable insights. ETL tools have become essential for companies, making data integration and transformation smooth and efficient. With so many... April 23rd, 2025 By Nitin Birajdar in Data Integration The right data integration solution makes all the difference when automating workflows, building real-time analytics, or consolidating business data across your organization. Additionally, these tools help move, transform, and sync... April 23rd, 2025 By Arjun Narayan in Data Strategy, Versus Data integration is crucial for informed business decisions in today's data-driven environment. When it comes to selecting the right integration tool, Fivetran vs Stitch is an interesting comparison, as both... April 23rd, 2025 By Shravani Kharat in Data Strategy Since organizations are increasingly relying on data, Data Pipelines are becoming an integral element of their everyday operations. The amount of data used in various business activities has grown dramatically... April 23rd, 2025 By Arun Chaudhary in Platform, Product Businesses today rely heavily on efficient data integration and ETL (Extract, Transform, Load) tools to manage and analyze their data. Choosing the right tool can significantly impact an organization's ability... April 23rd, 2025 By Nitin Birajdar in Platform, Product Two platforms are most commonly associated with automating your data processes: Fivetran vs Supermetrics. Thus, whether you have the demands of a fast-paced marketing team that needs the functionality of... April 23rd, 2025 By Subhan Hagverdiyev in Data Integration Airflow is a community-built platform for authoring, scheduling, and monitoring processes programmatically. It's essentially a more capable version of cron in that it can not only schedule jobs, but also... April 23rd, 2025 By Arsalan Mohammed in Data Strategy Apache airflow is a popular workflow management tool that provides functionalities like organizing, scheduling, and generating workflows. Apache Airflow is an open-source tool that makes it free to use. Open... April 23rd, 2025 By Arun Chaudhary in Platform, Product With businesses relying on vast amounts of data from various sources, integrating this data into a single system becomes complex. Two leading solutions in the market for tackling this challenge... April 23rd, 2025 By Roopa Madhuri G in Platform, Product ETL tools have become essential for businesses, making data integration and transformation smooth and efficient. With so many ETL tools available, choosing the right one for your needs can be... April 23rd, 2025 By Roopa Madhuri G in Platform, Product Are you grappling with the decision between Rivery vs Fivetran for your data integration needs? As the data landscape grows more complex, choosing the right ETL tool has become crucial... April 23rd, 2025 By Kamlesh in Platform, Product Quick Takeaway Fivetran and AWS Glue are both powerful ETL tools, but they serve different purposes. While Fivetran offers an easy-to-use, fully managed solution with pre-built connectors, AWS Glue, is... April 23rd, 2025 By Davor DSouza in Data Integration Apache Airflow promotes itself as a community-based platform for managing and orchestrating programmatic workflows. These are workflows for the data teams in charge of ETL pipelines, and a code-based system... Product Release From a new approach to secondary data storage to inclusion of artificial intelligence (AI) that enhances productivity and efficiency, BMC AMI's January 2025 release breaks new ground in enabling what's possible on the mainframe. DevOps has paved the way for faster and more agile software development processes by unifying teams, processes, and technologies to create an ever-evolving software development lifecycle (SDLC). This has led to more robust and efficient SDLCs, now capable of handling any user request, market demand, or technological issue. A range of tools is available in the market to facilitate DevOps, such as CI/CD tools, version control systems, artifact repositories, IaC tools, and monitoring tools. With the increased demand for cloud-based technologies, DevOps tools have also transitioned to cloud offerings. These cloud offerings can be used by teams spread across the world with nearly unlimited scalability and efficiency. In this article, we will explore such a cloud-based DevOps service offered by Microsoft called Azure DevOps. (Explore our DevOps Guide, a series of articles & tutorials.) What is Azure DevOps used for? Azure DevOps is a service offered by Microsoft based on the Azure cloud computing platform that provides a complete set of tools to manage software development projects. It consists of: Five key services An extensive marketplace that contains extensions to further extend the Azure DevOps platform and integrate with third-party services Azure DevOps core services Core Azure DevOps services include: Azure Boards Azure Pipeline Azure Repos Azure Test Plans Azure Artifacts Azure DevOps comes in two variants: The cloud-based Azure DevOps service The Azure DevOps Server The Azure DevOps Server, previously known as the Team Foundation Server (TFS), is a DevOps server solution that is targeted for on-premise deployments. It consists of all the tools available in the cloud-based Azure DevOps service to power any DevOps pipeline. This also server offers a free variant called Azure DevOps Server Express, aimed at individual developers and small teams of up to five team members. It can be installed in any environment. Azure guarantees 99.9% availability for all the paid DevOps services including paid user-based extensions. Moreover, it provides 99.9% availability to execute load testing and build and deploy operations in paid Azure Test Plans (Load Testing Service) and Azure Pipelines. Azure DevOps pricing The cost will be one of the primary concerns when considering any DevOps solution. The cloud-based Azure DevOps services come as both free and paid options. Additionally, the service offerings are provided in two varieties as individual services and complete service bundles. In addition to the above, there are special pricing options for open-source projects and Visual Studio subscribers to get free access to the Azure DevOps services depending on the subscription level. (Visit the Azure DevOps pricing page for details & up-to-date pricing.) Azure DevOps registration Registering for Azure DevOps is a simple and straightforward process that requires only a Microsoft account. Simply visit this page and click on "Start for free." When registering, you will need to provide some additional information such as organization name, project name, version control type (repo), etc. Organization refers to the Azure DevOps account name. The organization can contain multiple projects. Projects allow users to separate projects, control access, and split the code, tests, and pipelines to keep them within the assigned projects. A project can be either public or private, with Git or Team Foundation server as the version controlling system. Additionally, projects can be configured with a work item process like Agile or Scrum that will be used in Azure Boards to manage the project. Once the registration is complete, you will gain a dedicated organization URL in the following notation: https://.visualstudio.com Users can manage all their projects and use the DevOps services by visiting this URL. Azure DevOps Services Azure DevOps consists of five services—which we'll explore in this section. All these services can be grouped under individual projects so that users can have proper isolation between different projects using different technologies and catering to different needs. Project summary view: Azure Boards The Boards service in Azure DevOps is the management hub of the project. Boards can be used to plan, track, and collaborate between team members. With Azure, the Boards team can create Work items, Kanban boards, backlogs, dashboards, and custom reports to track all aspects of the project. You can also customize boards to suit the exact workflow requirements and gain meaningful insights through built-in reporting and monitoring tools. Additionally, Azure Boards comes with first-party integrations with services like Microsoft Teams and Slack, which enables efficient ChatOps. Azure Repos The Azure Repos are code repositories that enable users to manage their codebases. These are private and cloud-based repositories that support both Git and TFVC version control systems. Azure Repos can support projects of any scale, from individual hobby projects to enterprise developments. They also consist of the following features: Support for any Git client (IDE, Text Editor, CLI) Semantic code search Collaboration tools to interact with other team members Direct integration with CI/CD tools Branch Policies to enforce code quality standards Platform-agnostic services like Azure allows repo users to use any IDE or tool they are familiar with to interact with the Azure Repos in any operating system. Azure Pipelines Pipelines are the CI/CD tool that facilitates automated building, testing, and deployment. Azure Pipelines supports any programming language or platform which enables users to create pipelines that support Windows, Linux, and macOS using cloud-hosted agents. These pipelines are easily extensible through the extensions available in the marketplace. Besides, they support advanced workflows that can be used to facilitate: Multi-phase builds Test integrations Custom reporting functions On top of that, Azure Pipelines provide native container support, enabling them to push containers to container registries from the pipeline directly. The pipelines offer flexibility to deploy to multiple environments from Kubernetes clusters to serverless functions and even deploy to other cloud providers such as AWS or GCP. Azure Test Plans Test Plans is the Azure DevOps service that allows users to integrate a cloud-based testing platform to manage all the testing requirements such as: Planned manual testing User acceptance testing (UAT) Exploratory testing Gathering feedback from stakeholders Azure Test Plans allow users to create test plans and execute test cases within a pipeline. This can be combined with Azure Boards to create a test that can be executed from the Kanban boards and plan and author tests collaboratively. Test Plans support creating UAT plans for user acceptance testing and assign users from the DevOps platforms. It also supports the Test and Feedback browser extension to easily enable exploratory testing for interested parties without utilizing third-party tools. Furthermore, Test Plans enable users to test on any platform while having end-to-end traceability and powerful data gathering tools to diagnose any remedy identified issues. It is the only service in Azure DevOps with no free tier due to its rich toolset that is only accessible for commercial users. Azure Artifacts This is the artifact library service by Azure DevOps that can be used to create, store, and share packages (development artifacts). Azure Artifacts enable users to integrate fully featured package management functionality to CI/CD pipelines. Moreover, Azure Artifacts enable users to manage all package types like npm, Maven, etc., and keep them organized in a central library scoped only to the specific project. Azure Cloud Services Azure DevOps is one of the leading cloud-based DevOps services that offer a robust and feature-rich toolset to create and manage a complete DevOps process. It enables users to: Cater to any DevOps need regardless of the programming language, technology, or the targeted platform. Deploy anywhere from containers to third-party clouds. Azure DevOps facilitates all these with unparalleled scalability and availability without the hassle of maintaining specific software to carry out separate DevOps tasks. Azure DevOps vs. GitHub Should you use Azure DevOps instead of GitHub? The differences between GitHub and Azure DevOps mean each offers something distinct to your situation. The choice depends on your situation and the capabilities and benefits each one brings. In considering Azure DevOps and GitHub, both support Git and collaborative software development in both public and private modes. Azure DevOps is an enterprise-level software development management tool with an integrated build server and comprehensive tools that support project creation, software development and testing, and ongoing management and maintenance. It also offers advanced security and compliance features, along with governance capabilities. It contrasts with the lightweight, small-team-friendly, open-source option that is GitHub. The open-source nature of GitHub means it has broad community support, built-in social features, is developer-friendly, and has a large and active user base. The community around Azure DevOps is smaller, mostly Microsoft-focused enterprise users. Azure DevOps vs. Jira The Jira software development tool, available as SaaS or on-premises, is another option for those evaluating the Azure DevOps development platform. Jira shares some features with Azure DevOps, such as extensibility, Scrum and Kanban boards, customizable workflows, roadmaps for project management with dashboards and reporting, version control automation and orchestration, and repository management. Jira is different from Azure DevOps in that its core strength is supporting Agile project management, cross-team collaboration, and tracking issues across multiple development platforms. It has different versions for software, business, and IT teams, with an available mobile app. It offers advanced search for finding code issues and best-practices playbooks. Azure DevOps is a complete solution with built-in CI/CD, along with Git and TFVC support, code repositories, and testing tools. It includes Agile tools and deep DevOps integration, including integrated Azure Pipelines. With Jira, you need third-party CI/CD and testing tools, as well as those for version control code repositories. In choosing between Jira and Azure DevOps, you will need to look at functionality, integration, performance, and available support. Related reading These postings are my own and do not necessarily represent BMC's position, strategies, or opinion. See an error or have a suggestion? Please let us know by emailing . Share — copy and redistribute the material in any medium or format for any purpose, even comm