



How to become a DevOps Professional 2023 free !!

Learn with Bilal : <https://www.youtube.com/@bilalmazhar100>

GitHub : <https://github.com/BilalMaz/DevOps-Architect-BootCamp>

Website : <https://devsecops-university.com/>

About me



Hi there, my name is Bilal and I will Welcome you to DevOps boot camp! I am thrilled to have you join us for this exciting journey of learning and discovery.

■

In this boot camp, we will be exploring the principles and practices of DevOps, which is a set of methodologies and tools that aims to bridge the gap between software development and operations. DevOps is an increasingly important area in the field of software engineering, as it helps organizations to streamline their processes, improve their agility, and deliver better value to their customers.

■

By the end of this boot camp, you will have gained a comprehensive understanding of DevOps and its key concepts, as well as practical skills in areas such as infrastructure automation, continuous integration and delivery, monitoring and logging, and more. You will be equipped with the knowledge and tools to apply DevOps principles in your own work and contribute to the success of your organization.

■

I am always looking to connect with other professionals in the field, share ideas and insights, and stay up to date on the latest trends and developments. I welcome the opportunity to connect with you and explore ways in which we can collaborate and support each other.

■

GitHub : <https://github.com/BilalMaz/DevOps-Architect-BootCamp>

LinkedIn : <https://www.linkedin.com/in/bilalmazhar-cyber-security-consultant/>

What is DevOps ?

- DevOps is a set of practices, methodologies, and culture that aims to combine software development (Dev) and IT operations (Ops) in order to improve the collaboration, efficiency, and quality of the software development lifecycle.
- The main goal of DevOps is to create a more streamlined and automated approach to software development and deployment, enabling faster and more reliable releases of software products and services.

Skills Required

- Continuous Integration and Continuous Delivery (CI/CD) ,
- Version Control ,
- Infrastructure as Code (IaC) ,
- Cloud Platforms (AWS , Azure , GCP , Alibaba) ,
- Containerization ,
- Scripting and Programming ,
- Monitoring and Logging Tool ,
- Security Practices ,
- Collaboration and Communication ,
- Problem-solving and Troubleshooting

Resource for DevOps – Introduction

- <https://www.simplilearn.com/skillup-free-online-courses#DevOps>
- <https://www.mygreatlearning.com/academy/learn-for-free/courses>
- <https://alison.com/tag/devops>
- <https://intellipaat.com/academy/course/devops-free-course/?US>
- <https://www.edureka.co/free-course/learn-devops-basics-online>
- <https://www.freecodecamp.org/news/devops-engineering-course-for-beginners/>
- <https://cloudxlab.com/course/60/devops-certification-training>
- <https://www.hiphops.io/resources/free-devops-courses>
- <https://www.datacamp.com/courses/introduction-to-devops>
- <https://formationgratuite.net/en/Introduction-to-DevOps/>
- <https://social.dnsmadeeasy.com/blog/free-advanced-devops-courses/>
- <https://github.com/milanm/DevOps-Roadmap>

Continuous Integration and Continuous Delivery (CI/CD)

- <https://medium.com/@nirespire/what-is-cicd-concepts-in-continuous-integration-and-deployment-4fe3f6625007> ,
- https://www.youtube.com/watch?v=R8_veQiYBjI ,
- <https://github.blog/2020-08-06-achieving-devsecops-maturity-with-a-developer-first-community-driven-approach/> ,
- <https://www.youtube.com/watch?v=FX322RVNGj4&t=328s> ,
- <https://www.youtube.com/watch?v=MayMkFCkzj4> ,
- <https://www.youtube.com/watch?v=moa2CzgLNsc> ,
- <https://www.youtube.com/watch?v=woMAXn4e8NA> ,

Infrastructure as Code (IaC)

- <https://www.youtube.com/watch?v=EcngJbxBcMo>
- <https://www.youtube.com/watch?v=75wa1N49b-o&list=PLBGx66SQNZ8aPsFDwb79JrS2KQBTIZo10&index=31>
- <https://www.youtube.com/watch?v=Yl48bKykx7k>
- <https://www.youtube.com/watch?v=kE-6KDyf-oo&list=PLBGx66SQNZ8aPsFDwb79JrS2KQBTIZo10&index=33>
- https://www.youtube.com/watch?v=SR_CZcZQfqE&list=PLBGx66SQNZ8aPsFDwb79JrS2KQBTIZo10&index=34
- <https://www.youtube.com/watch?v=uyFrrKju4Es&list=PLBGx66SQNZ8aPsFDwb79JrS2KQBTIZo10&index=35>
- <https://www.youtube.com/watch?v=2ULTYJMioYE&list=PLBGx66SQNZ8aPsFDwb79JrS2KQBTIZo10&index=36>

Cloud Platforms (AWS , Azure , GCP , Alibaba)

- <https://www.aws.training/> ,
- <https://www.w3schools.com/aws/> ,
- <https://www.simplilearn.com/tutorials/aws-tutorial> ,
- <https://www.mygreatlearning.com/academy/learn-for-free/courses/aws-for-beginners1> ,
- <https://towardsdatascience.com/top-12-ways-to-learn-aws-for-free-1113af329d06> ,
- <https://www.datacamp.com/courses/aws-cloud-concepts> ,
- <https://learn.microsoft.com/en-us/training/azure/> ,
- https://edu.alibabacloud.com/elearning?spm=a3coi.19782589.4363105600.8.e69e4f12Zw6moa#J_4222514620 ,

Containerization

- <https://docs.docker.com/get-started/resources/> ,
- <https://www.mygreatlearning.com/docker/free-courses> ,
- <https://learndocker.online/> ,
- <https://www.simplilearn.com/learn-docker-basics-free-course-skillup> ,
- <https://training.play-with-docker.com/> ,
- <https://www.freecodecamp.org/news/learn-docker-and-kubernetes-hands-on-course/> ,
- <https://www.ibm.com/training/badge/docker-essentials-a-developer-introduction> ,

Scripting and Programming

- <https://www.w3schools.com/python/>
- <https://www.programiz.com/python-programming> ,
- <https://www.learnpython.org/> ,
- <https://www.simplilearn.com/tutorials/python-tutorial> ,
- <https://realpython.com/> ,
- <https://www.geeksforgeeks.org/python-programming-language/> ,
- <https://pythonbasics.org/> ,
- <https://www.kaggle.com/learn/python> ,
- <https://www.tutorialsteacher.com/python> ,

Monitoring and Logging Tool

- <https://intellipaat.com/blog/devops-monitoring-tools/?U>,
- <https://www.browserstack.com/guide/top-devops-monitoring-tools>,
- <https://www.knowledgehut.com/blog/devops/monitoring-tools-in-devops>,
- <https://www.chaossearch.io/blog/continuous-monitoring-tools>,

Security Practices

- <https://kirkpatrickprice.com/blog/secure-coding-best-practices/>,
- <https://www.getastra.com/blog/security-audit/what-is-security-testing/>,
- <https://insights.sei.cmu.edu/blog/10-types-of-application-security-testing-tools-when-and-how-to-use-them/>,
- <https://www.techtarget.com/searchsecurity/definition/identity-access-management-IAM-system>,
- <https://www.crowdstrike.com/cybersecurity-101/cloud-security/cloud-security-best-practices/>,

Collaboration and Communication

- <https://www.techtarget.com/searchsoftwarequality/tip/4-DevOps-communication-principles-to-get-teams-talking> ,
- <https://mindmajix.com/10-tools-for-effective-devops-collaboration> ,
- <https://about.gitlab.com/blog/2020/11/23/collaboration-communication-best-practices/> ,
- <https://slack.com/help/categories/3600000049063> ,
- <https://support.microsoft.com/en-us/office/microsoft-teams-video-training-4f108e54-240b-4351-8084-b1089fod21d7> ,

Problem-solving and Troubleshooting

- Practice , Practice