

Assignment 1

DevOps overview and Source code Management

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Batch- B1 (Hons.)

Q1. Write Five facts and Five Myths of DevOps.

Ans-

|  |  |
| --- | --- |
| Myth | Facts |
| * DevOps is a tool | * DevOps is a methodology and set of practices not simply a toolbox. |
| * DevOps requires a team. | * DevOps doesn’t need its own specialised team. |
| * DevOps is only for continuous delivery. | * DevOps does deal with automation, but that’s not its only function. |
| * DevOps only use open-source software. | * DevOps is a set of principles, meaning that the technology DevOps runs on isn’t standardised. |
| * DevOps is only useful for the cloud. | * DevOps can be used on the cloud, but it can be used on lots of other infrastructures, as well. |
| * DevOps eliminates IT teams. | * IT operations are not decimated after DevOps implementation. |

Q2. Write Two most popular tools for following processes in DevOps.

Ans-

1. Source Code Management

* Github
* Bazaar

1. Development

* Azure
* Jira

1. Testing

* Selenium
* Katalon Studio

1. Continuous Integration

* Jenkins
* CircleCI

1. Continuous Deployment

* AWS CodeDeploy
* GitLab

1. Agile

* Jira
* SpiraPlan

1. System Provisioning

* Zluri
* Okta

1. System Monitoring

* NinjaOne
* Datadog

Q3. Write Three most popular Platform Competitive Coding and share your profile link for all these three.

Ans-

1. Hackerearth [Blackhat Ujjwal | Developer Profile on HackerEarth.](https://www.hackerearth.com/@blackhat3)
2. LeetCode [Ujjwal\_blackhat - LeetCode Profile](https://leetcode.com/Ujjwal_blackhat/)
3. HackerRank [Ujjwal Kumar Gupta - ujjwalgupta1\_ujg | HackerRank](https://www.hackerrank.com/ujjwalgupta1_ujg)

Q4. Write and five most popular GitHub Repo and share the reason.

Ans-

1. [**freeCodeCamp / freeCodeCamp**](https://github.com/freeCodeCamp/freeCodeCamp)**(⭐341k )**

Several free developer certificates are available, each of these certifications requires you to complete five compulsory web app projects as well as hundreds of optional code tasks to help you prepare for them. The plethora of free educational information they provide is simply astounding and the main reason they are number one.

Giving away **free** learning resources for coding in the golden age is definitely the main factor for their popularity since people love free resources & advice.

# [996icu/996.ICU](https://github.com/996icu/996.ICU) (⭐261k)

The term 996.ICU comes from the Chinese phrase “Work by ‘996’, sick in ICU,” which indicates that adhering to the “996” work schedule (9 a.m. — 9 p.m. 6 days a week) puts you at danger of being admitted to the ICU (Intensive Care Unit). The repository contains multiple lists from Chinese companies not forcing 996 schedules to covering awesome repositories.

# [EbookFoundation / free-programming-books](https://github.com/EbookFoundation/free-programming-books) (⭐222k)

It lists books and other resources grouped by languages & genres. You can find books in over 36 languages and courses in more than 28. Seems revealing free educational information to the world is key to a repositories popularity.

# [jwasham/coding-interview-university](https://github.com/jwasham/coding-interview-university) (⭐210k)

The repository covers exactly the steps to getting ready for a hard coding interview so make your interviewers utterly astounded at your data structures and algorithms knowledge. ‘Selling’ a dream or providing it for free is a sure-fire way to achieving popularity on the internet.

# [vuejs/vue](https://github.com/vuejs/vue) (⭐193k)

# It is a progressive framework for creating user interfaces. It was built from the ground up to be gradually adaptable, and it can easily scale between a library and a framework depending on the needs.

# It consists of an approachable core library that focuses on the view layer only, and an ecosystem of supporting libraries that helps you tackle complexity in large Single-Page Applications. It’s simple and easy to learn API, great documentation and a friendly community are likely reasons for its success.

# Q5. Write 10 most popular Job Roles for DevOps Specialist.

# Ans-

# DevOps Engineer: In the prime of the organic phenomenon authority all told the items DevOps. Additionally, referred to as a platform Engineer, the DevOps engineer is that the one who oversees and supports the platform used for DevOps operation .

# A qualified candidate for a DevOps engineer position has older in DevOps work, familiarity with the platform on the market and the way to integrate them into existing business processes, and management expertise

# 2. Build Engineer: The build engineer may be a DevOps social control position to blame of the event groups. This individual spends their time managing the build and development method and is accountable for the guaranteeing build goals and deadlines square measure met in an exceedingly quick paced atmosphere. They managed code, maintain builds, they produce new build, and additionally manages deploy automatic answer, ensures build meet established configuration needs. They have a hybrid role that features the responsibilities of different technical roles like the wife designer or the configuration manager. All these works for a large vary of prospects within the business having a great deal of flexibility within the position.

# 3. DevOps Evangelist: In the market there square measure already several firms dedicated to DevOps lifestyle. These firms square measure guided by DevOps evangelist. The position holder or adviser or associate worker. This role desires authority as a result of their goal is develop an idea, a thought, a concept or an inspiration} for DevOps implementation and persuade those to blame of what proportion higher life are if that plan is enforced. A DevOps Evangelist is associate analyst and should be sensible at compiling and presenting information.

# 4. Release Manager : If the build Engineer is that the back of the coin, the discharge manager is within the front. The discharge manager is associate oversight and social control position that oversees the general development, they work consequently build engineers and different groups to make sure that the goals square measure met. The release manager ought to be initial and foremost, a management and oversight position that needs a deep level of sensible development information with success.

# 5. Product manager : DevOps is essentially targeted on conveyance operation system into development and most DevOps roles square measure development roles with enlarged responsibilities and skillsets. Its associate operation role repurposed among DevOps. This role is one in all that comes straight from operation aspect of DevOps and brings with it the structure and management skills necessary for the comes to succeed.

# 6. DevOps code developer : The role of the code developer is crucial for any of code targeted company. In DevOps a code developer isn’t simply accountable for developing code, however additionally for check, deploy, monitor, and support that code. The DevOps code developers ought to be fluent in cryptography and code development in addition as QA and maintenance.

# 7. Security Engineer : Fashionable code development is fraught thus in DevOps, security is resistance and vital facet of the event method. Security has to be baked into the merchandise from the bottom up thus its harder to take advantage of and more durable to crack. This needs a security engineer to figure closely with the code developers, that is extraordinarily vital not only for the success of a product however additionally for the safety of the user exploitation it. It has to fluent with all fashionable security standards, in progress attacks ,vectors, and users behaviour that generally bypass security and make holes.