**DEVOPS interview question**

**DAY 1**

**interview questions day 1:**  
what is sdlc, waterfall vs agile, what is devops, devops lifecycle, devops principles, what is ci. what is cd, difference between cd and cde?

1. **What is SDLC?**  
     
   SDLC stands for Software Development Lifecycle, where it is the process, or a framework used for developing or creating the software with multi stages or phases. The phases are,

* Requirements gathering and planning
* Design (high level design and low level design)
* Coding
* Testing
* Release
* Maintenance
* Feedback

1. **Waterfall vs Agile?**

Waterfall:

* It’s a linear and sequential project management where phases must be completed before next begins or moving from one phase to next phase in a strict order.
* It’s a difficult and costly to go back to a previous phase once stage is completed.

Agile:

* It’s a iterative and incremental process breaking the projects into small cycle.
* It is designed to accommodate the changes and feedback throughout the development process.

1. **What is DevOps?**

It’s a process integration and automation of the software development and information technology operations team to accelerate delivery development operations.

1. **DevOps Lifecycle?** It is a continuous and iterative process for software delivery that integrates development and operations teams where it’s typically represented as an infinity loop with phases such as Plan, Code, Build, Test, Release, Deploy, Operate, and Monitor
2. **What are DevOps principles?**

There are seven DevOps principles such as Continuous Integration (CI), Continuous Delivery (CD), Continuous Deployment (CDE), Continuous Monitoring (CM), Continuous Testing (CT), Continuous Development (CD), Continuous Feedback (CF)

1. **What is CI, CD?  
     
    CI (Continuous Integration):** Developers continuously change or add their code into the central repository.

**CD (Continuous Delivery):** After CI, code is automatically prepared for release to production. This includes building and testing, but the final deployment to users might still require a manual approval step.

1. **What is the difference between CD and CDE?**

CD stands for Continuous Delivery where the code is automatically prepared for release to production. It includes building and testing, but the final deployment to users might still require a manual approval.

CDE stands for Continuous Deployment is the final step, where all tests pass, the code automatically deployed to production without manual intervention.