5 cs of devops wordpress

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Understanding DevOps: The Cs and Beyond**

What are the Cs of DevOps?

DevOps is often associated with the "3 Cs" or "7 Cs":

- **Collaboration:** Fostering effective communication and cooperation between development and operations teams.
- **Continuous Integration (CI):** Automating the integration of code changes into a central repository.
- **Continuous Delivery (CD):** Automating the deployment of software updates to production environments.

What are the 5 Levels of DevOps Practice?

The DevOps maturity model consists of five levels:

1. **Chaos:** Unstable and inefficient development and operations processes.
2. **Collaboration:** Basic integration between teams, but limited automation.
3. **Continuous:** Automation of key processes, such as testing and deployment.
4. **Orchestrated:** End-to-end automation and integration across all DevOps practices.
5. **Optimized:** Constant improvement and innovation to achieve maximum efficiency and agility.

What is WordPress DevOps?

WordPress DevOps involves applying DevOps principles to the development, deployment, and management of WordPress websites and applications. It includes:

- Automating WordPress updates and plugin installations.
- Using continuous integration and delivery tools to streamline code changes.
- Monitoring website performance and security.

Additional DevOps Concepts

3 C's of DevOps:

- **Culture:** A collaborative and agile mindset within the team.
- **Communication:** Open and transparent communication channels.
- **Continuous Improvement:** A commitment to ongoing learning and improvement.

Six Pillars of DevOps:

- Collaboration
- Automation
- Measurement
- Learning
- Sharing
- Security

Level 5 of DevOps Lifecycle:

Level 5, also known as the "Continuous Optimization" stage, focuses on continuously improving DevOps processes through automation, testing, and feedback loops.

Core Pillars of DevOps:

- Collaboration
- Automation

- Measurement

- Feedback

3 P's of DevOps:

- **People:** The individuals involved in DevOps practices.

- **Process:** The workflows and methodologies used.

- **Products:** The software and applications developed.

WordPress Dev Environment

A WordPress dev environment is a setup that allows developers to build and test WordPress websites and plugins in an isolated and controlled environment.

Working as a WordPress Developer

- Master WordPress core functions.

- Understand PHP, HTML, CSS, and JavaScript.

- Familiarize yourself with theme development.

- Contribute to the WordPress community.

WordPress Functions

WordPress functions are built-in helper functions that allow developers to manipulate data, perform tasks, and customize the functionality of WordPress websites.

CS in DevOps

"CS" in DevOps refers to "Continuous Security," which involves integrating security practices into all stages of the DevOps lifecycle.

First Five Levels of DevOps Practice

The first five levels of DevOps practice are:

1. Isolation
2. Integration
3. Standardization

4. Continuous Integration
5. Continuous Delivery

4 DevOps Measures

Key DevOps measures include:

- Deployment frequency
- Lead time for changes
- Mean time to recover (MTTR)
- Change failure rate

Nine Pillars of DevOps

- Continuous integration
- Continuous delivery
- Continuous testing
- Infrastructure as code
- Configuration management
- Monitoring
- Logging
- DevOps tooling
- Culture and mindset

Three Key Principles of DevOps

- Automation
- Collaboration
- Feedback

Key Practice of DevOps

- Continuous Delivery

8 Phases of DevOps Lifecycle

- Plan

- Code

- Build

- Test

- Deploy

- Release

- Operate

- Monitor

4 Ways of DevOps

- **Flow:** Automating the software delivery pipeline.

- **Feedback:** Continuously gathering and acting on feedback.

- **Continuous Learning:** Constantly improving practices through experimentation and adaptation.

- **Collaboration:** Fostering teamwork and cross-functional cooperation.
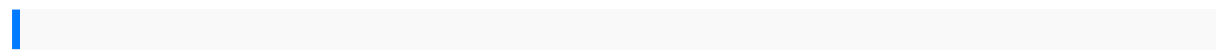
4 Key Components of DevOps

- Culture

- Automation

- Measurement

- Feedback

Core Operations of DevOps

- Managing code changes

- Building and testing software

- Deploying and releasing software

- Monitoring and optimizing performance

OPS Side of DevOps

"OPS" in DevOps refers to the operations side, which focuses on deploying, managing, and monitoring software in production environments.

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