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Step-by-step perfect DevOps Strategy

Once you have decided that you need to implement DevOps in your organization, you should plan. A well-defined plan is an integral part of your DevOps implementation strategy.

Here are some of the critical **step-by-step** DevOps implementation strategy:

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1 ▸ Find a cloud service provider

The first step is the most crucial. You need a cloud service provider who has all the capabilities and services to run your application. Service providers like **AWS, Microsoft Azure, Google Cloud Platform**, etc., provide a highly available and robust infrastructure to run your applications.

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2 ▸ Design your software architecture

A well-designed architecture is the backbone of a good and successful product. Adopting DevOps strategies can ensure you adopt the leading software architectures like Microservices and Serverless architectures.

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3 ▸ Incorporate 12-factor methodology

Developing successful software and products needs certain assurances like security, portability, etc. There is a well-defined **12-factor methodology** developed by experts who have worked on thousands of product development tasks.

These factors are: CodeBase; Dependencies; Configuration; Backing Services; Build, release, run; Process; Port binding; Concurrency; Disposability; Dev/Prod parity; Logs; Admin processes.

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4 Plan a container orchestration system

Products and platforms have slowly transitioned from virtualiza-

tion to containerization. Docker is a very powerful tool for contai-

nerizing your applications. Once you include Docker in your in-

frastructure, it is imperative to have an orchestration tool as well.

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5 ▸ Create a CI/CD pipeline

CI/CD is the core DevOps release strategy. Implementation of a successful CI/CD pipeline streamlines your build and deploy process. This results in a fast and rapid software delivery pipeline.

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6 ▸ Look for areas to automate using IaC

Building infrastructure to run your product can be a cumberso-

me task. And when you have to do it again and again for several

different environments. It becomes redundant and tiring. It is es-

sential to have a similar setup in the dev, test, and prod environ-

ment. This is where Infrastructure-as-Code tools like Terraform

come into the picture.

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7 ▸ Security and Compliance

PCI-DSS, HIPAA, SOC1, SOC2, ISO, etc., are essential certifications and attestations required to have a successful product in regulated industries like finance and healthcare. It not only helps to build trust in your customers but also increases the sellability of your product.

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8 ▸ Support, maintenance, and incident response

Your successful DevOps strategy should have a resilient Support Framework. Well-defined **SLA** & **SLOs** on a contractual level inculcate trust among your customers. A proper incident response plan promotes a smooth customer experience.

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If you get these steps right, there will be no stones unturned in your journey to a successful DevOps implementation strategy.

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