

## Exercise: DevOps Planning & Research

You are starting as a Junior DevOps in a IT Company. You get assigned to a new Project that develops software solutions for Banking systems. Currently, you are single devoted DevOps engineer on that project with mixed team members (Devs, QA, PM's etc). Before the Kick-off of the Project, you are given the task to plan and research the best practices for the project.

### 1. Explain what steps you are taking for planning and research?

I would gather all the requirements of the project from the stakeholders, including the development team, QA team, and project managers. This understanding would help me to determine the necessary tools and technologies required for the project. I would research and evaluate industry best practices in DevOps, including automation, infrastructure-as-code and security best practices. Identify the tools and technologies I will need and use for those practices and implement them. Create a plan as this is the most important thing. Collaborate with the team to ensure that the plan collaborates with the project, and continuously monitor and optimize.

### 2. How would you describe the process for DevOps best practices to your colleagues?

The DevOps best practices process involves planning, research, continuous Integration and continuous deployment, infrastructure as code, automation, security, and continuous monitoring and optimization.

### 3. How would you organize your time for planning and research?

Identify and prioritize tasks that are important, set deadlines, set time for each task to be completed, make collaborative meetings and review the progress regularly.

### 4. What methods and tools are you using during this process?

Project management tools, version control tools like git, collaboration tools like Microsoft Teams, Automation tools, configuration management tools, cloud platforms like AWS or Azure and do a research on the best practices in the industry for devops best practices for the project.

### 5. Describe the short (imagined) presentation of your research and planning, for your team briefly:

I think this question is similar to the first one, as I would do all the steps mentioned in first answer.