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?

* For planning and research, personally I would start by identifying the project's end goals and objectives, including some specific requirements that are needed. Then, I would research the industry best practices for DevOps in the context of banking software development, I will review relevant case studies, consult with experts in the field to gather insights and ideas of some sort. Finally I would create a detailed plan to integrate identified best practices into the project's development lifecycle.

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

* When discussing DevOps best practices with my colleagues, I would stress to my colleagues the significance of using automation tools, continuous testing, and infrastructure as code to improve the efficiency of the development process, by minimizing human error and reducing the time to deploy new features and updates.Also, to ensure a successful development lifecycle, it is important to prioritize communication, collaboration, security, and compliance across all team members.

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

* To effectively plan and research, I would break down tasks, prioritize based on importance and urgency, set specific deadlines, regularly review progress, and adjust the plan as needed to stay on track.

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

* I would employ multiple methods and tools, such as researching practices, reviewing some case studies, attending conferences, and consulting experts. Additionally, I would use automation and monitoring tools to test, track, and identify issues that are present.

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

* During the presentation to the team, I would summarize research findings and the plan for implementation, highlighting the significance of communication and collaboration, continuous testing, integration, and monitoring of the project.