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?

* DevOps team researches and defines the scope of the project. User research is done, goals are established. The project objectives are determined, and the project requirements are collected. Dependencies between activities are identified. Meetings are held, preferably daily meetings, where ideas are gathered, features and details are discussed, what tools will be needed. Also, it is discussed how much work is needed for the tasks, and the tasks are broken down into smaller ones. Documentation is done.

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

* Frequent, smaller updates are made. They make every deployment less risky.

Also, microservices are used. Whit this, applications are more flexible.

Developers regularly merge their code into a central repository, witch helps for bugs to be found quicker and be addressed immediately. This is continuous integration.

Collaboration between team members.

Feedback gives developers to have all the information they need.

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

* Make tasks, the big tasks will be broken down into smaller tasks. Give time estimates. Give priority to tasks.
* Collaborate with colleagues and get feedback from the more senior DevOps colleagues.

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

* Tools like Mural or Miro helps the software team gather ideas and conduct research. Use Teams or Slack for team communication. The use of Jira helps teams to track and manage work, also helps teams to plan.

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

* Give ideas and goals for the project. Give the best practices an explain them. Receive feedback.