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 s0PM’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?

We should outline the vision and scope of the project. Make sure that we understand the goal of the project, the details, the benefits etc…

Create a workflow that helps me and my team to develop the application.

Have daily meetings with our team to discuss the progress of the project, the difficulties and problems that may occur.

Break down large tasks into smaller ones to work more efficiently and achieve our goals faster.

Decide what software and tools will be used during the process.

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

The fundamental practice is to perform small updates but very frequently. This frequent updates makes each deployment less risky. We could use microservices architecture to make the application more flexible and innovative. With that the application will be broken to more individual components but they all will have a single purpose and operate independently.

We need to implement continuous integration and continuous delivery so it can be delivered rapidly and in safe manner. Infrastructure automation practices help to keep computing resources responsive to frequent changes.   
Plus we need to use monitoring and logging helps to track the performance of the application so we react quickly if there are some problems.

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

First of all plan well. Planning is very important.

Manage interruptions well, maybe assign some fixed time for your emails, messages, phone calls etc..

Avoid postponing – not to postponing unpleasant task because it just delays completing them.

Self-discipline – We should stick to the plan.

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

Tools that allow development and operations teams to break down work into smaller tasks for quicker deployment. Tools that provide sprint planning, issue tracking and allow collaboration (Jira for example).

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

* Goals of the project, vision and scope
* Planning of the project
* Have daily meetings to discuss about the progress and issues
* Brake the tasks to smaller task for quicker and efficient deployment
* Decide what software and tools will be used during the process