Problem Statement (or Background):
DevOps is the offspring of agile software development – born from the need to keep up with the increased software velocity and throughput agile methods have achieved. Advancements in agile culture and methods over the last decade exposed the need for a more holistic approach to the end-to-end software delivery lifecycle. The DevOps ideals extend agile development practices by further streamlining the movement of software change thru the build, validate, and deploy and delivery stages, while empowering cross-functional teams with full ownership of software applications – from design thru production support. DevOps is an IT mindset that encourages communication, collaboration, integration and automation among software developers and IT operations in order to improve the speed and quality of delivering software.

Overview of the hands-on project:
The goal of the project is to understand how DevOps addresses agile software development challenges by establishing collaborative cross-functional teams that share responsibility for maintaining the system that runs the software and preparing the software to run on that system with increased quality feedback and automation issues, we will be demonstrating different DevOps Tools (Open source) used at different stages of software engineering with a Project.

References: