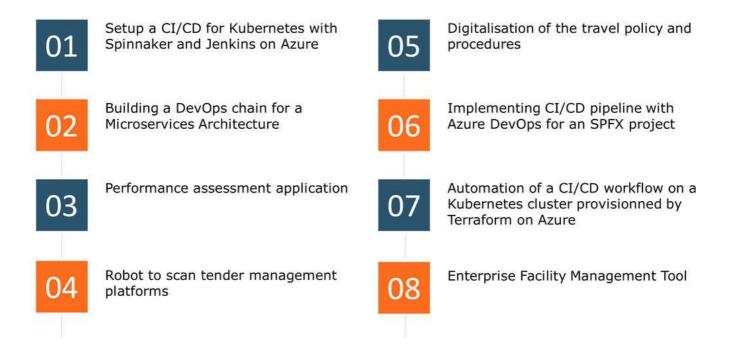


Summary





Subject	PFE-2022-01 : Setup a CI/CD for Kubernetes with Spinnaker and Jenkins on Azure
Objectives	In this project, you will practice a new Way of setting up continuous integration and continuous delivery on Azure.
Tasks	As part of your project, you will have to learn and assess several tools I order to automate the different blocks of the chain be it integration, deployment, testing, or monitoring to maintain a shorter development cycle and to innovate faster. We will use Terraform as infrastructure as a code tool, Jenkin as a continuous integration tool, Spinnaker as a continuous delivery tool, Kubernetes as orchestration tool and finally Prometheus for monitoring.
Education: Required Skills/Knowledge	Computer science engineer Programming languages (.NET or java or Python) Linux environment DevOps process Docker, GIT, Jenkins, Kubernetes. Azure (Optional) English



Subject	PFE-2022-02 : Building a DevOps chain for a Microservices Architecture
Objective	Best practices of DevOps
Missions	 Building secure microservices-based applications using spring boot Building Continuous integration pipelines Containerization and cluster administration Cloud management with Azure Infrastructure provisioning Automation and Cluster Monitoring
Education: Required Skills/Knowledge	Computer science engineer Programming language (java or python) Shell scripting and Linux basic knowledge DevOps process Infrastructure knowledge (servers,) Docker, GIT, Jenkins, Kubernetes English



Subject	PFE-2022-03 : Performance assessment application
Objective	Digitalisation of the project and yearly assessment process and integrating it as a Teams application
Missions	 Understand the current process Elaborate the backlog UX design Technical design Implementation of the solution Deploying via a CI/CD chain
Education: Skills/Knowledge Required	Computer science engineer • .NET • ReactJS • Basic Devops knowledge • English



Subject	PFE-2022-04 : Robot to scan tender management platforms
Objective	Building a robot to scrap tender management platforms and detect relevant tenders based on keywords
Missions	 Understand the current process Elaborate the backlog Technical design Implementation of the solution Deploying via a CI/CD chain
Education: Skills/Knowledge Required	Computer science engineer RPA ReactJS English



Subject	PFE-2022-05 : Digitalisation of the travel policy and procedures
Objective	Building an internal application to monitor travel document validity (passports, visas, vaccination pass) as well as the visa and mobility related procedures
Missions	 Understand the current process Elaborate the backlog UX design Technical design Implementation of the solution Deploying via a CI/CD chain
Education: Skills/Knowledge Required	Computer science engineer • .NET • ReactJS • Basic Devops knowledge • English



Subject	PFE-2022-06 : Implementing CI/CD pipeline with Azure DevOps for an SPFX project
Objective	You will prepare and create a pipeline with Azure Devops for an SPFX project
Missions	 Create a CI/CD Pipeline for an SPFX project with Azure DevOps Scripting with PowerShell Automation of the deployment process
Education: Skills/Knowledge Required	 Computer science engineer Azure, Azure DevOps, Ansible, PowerShell Power automate, Visual Studio, office 365



Subject	PFE-2022-07 : Automation of a CI/CD workflow on a Kubernetes cluster provisionned by Terraform on Azure
Objective	You will provision a Kubernetes cluster with two workers on Azure using Terraform. You will implement a CI/CD workflow for a Spring, Python or a NodeJS project
Missions	 Provisionning with Terraform Setup a Kubernetes cluster with two workers (ETCD with high availablity) CI/CD Pipeline with Jenkins Monitoring with Prometheus and Grafana Automation of the installation with Ansible/Terraform
Education: Skills/Knowledge Required	Computer science engineer Azure Ansible, Kubernetes, Terraform, Jenkins Grafana, Prometheus.



Subject	PFE-2022-08 : Enterprise Facility Management Tool
Objective	Design and development of a Digital solution that allows organizations/enterprises manage their business operations by tracking, communicating and analyzing data.
Missions	 With the help of product Team (Sales, Ops, HR, Site Manager), you will be able to shape out an efficient design for the solution that respond to the expected added value. You will be able to dive in with the use of the right technical approach for the development of the solution with the help and guidance of the technical lead in an agile work methodology
Education: Skills/Knowledge Required	Computer science engineer ReactJS SharePoint Online Power Automate SharePoint Framework (SPFx)



Join the team!

