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MEA

PFE CATALOG 2021-2022

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Gold Application Development
Gold Collaboration and Content
Gold Datacenter
Gold Cloud Productivity
Silver Data Analytics
Silver Project and Portfolio Management

Summary



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Setup a CI/CD for Kubernetes with Spinnaker and Jenkins on Azure

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Building a DevOps chain for a Microservices Architecture

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Digitalisation of the travel policy and procedures

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Implementing CI/CD pipeline with Azure DevOps for an SPFX project

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Automation of a CI/CD workflow on a Kubernetes cluster provisioned by Terraform on Azure

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Enterprise Facility Management Tool

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 in 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	<p>Computer science engineer</p> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none">• 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	<p>Computer science engineer</p> <ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• .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	<ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• .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	<ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Provisionning with Terraform• Setup a Kubernetes cluster with two workers (ETCD with high availability)• CI/CD Pipeline with Jenkins• Monitoring with Prometheus and Grafana• Automation of the installation with Ansible/Terraform
Education: Skills/Knowledge Required	Computer science engineer <ul style="list-style-type: none">• 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	<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • ReactJS • SharePoint Online • Power Automate • SharePoint Framework (SPFx)

Join the team!

