



DOCKER

Léo Schirvanian – Josselin Anisset

QU'EST-CE QUE DOCKER ?

- **Lancer des applications dans des conteneurs**

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- **Empaqueter une application et ses dépendances**

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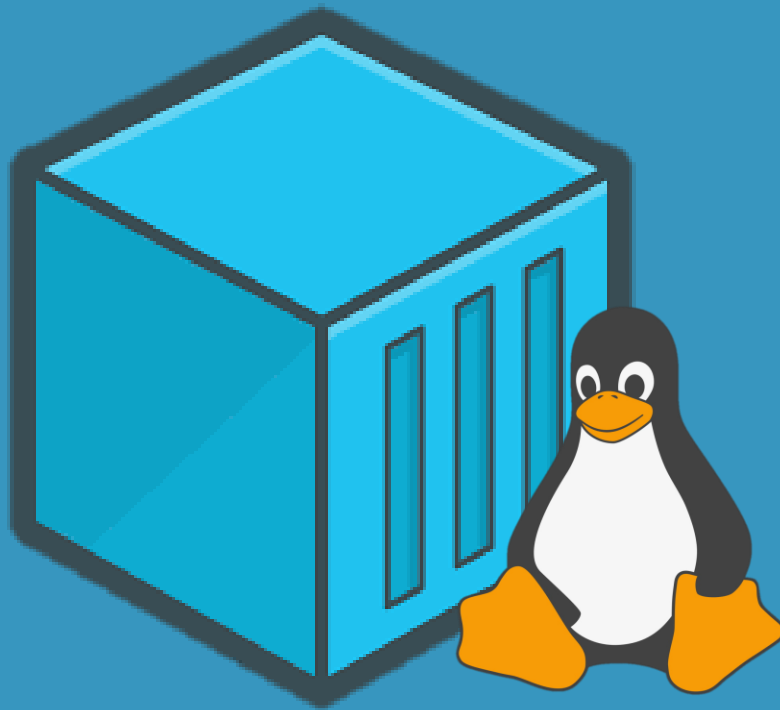
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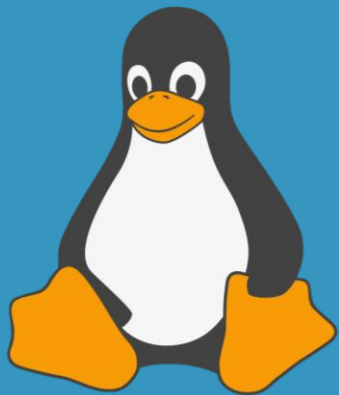
- **Lancer des applications dans des conteneurs**
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- **Mieux qu'une machine virtuelle**
- **Réconcilie développeur et administrateur système**
- **Excellent environnement de développement**



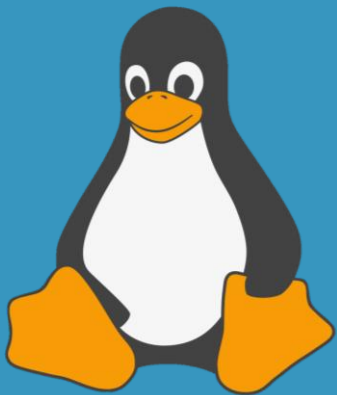
CONTENEUR ?



LXC = Linux Container



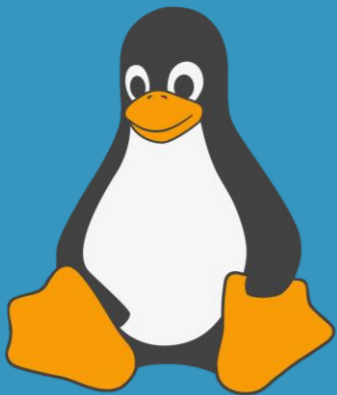
**KERNEL
LINUX**



**KERNEL
LINUX**



ISOLATION



**KERNEL
LINUX**



ISOLATION



**PAS DE
DÉPENDANCE**



COMMENT ÇA MARCHE ?



Infrastructure
(Ordinateur, Serveur, ...)

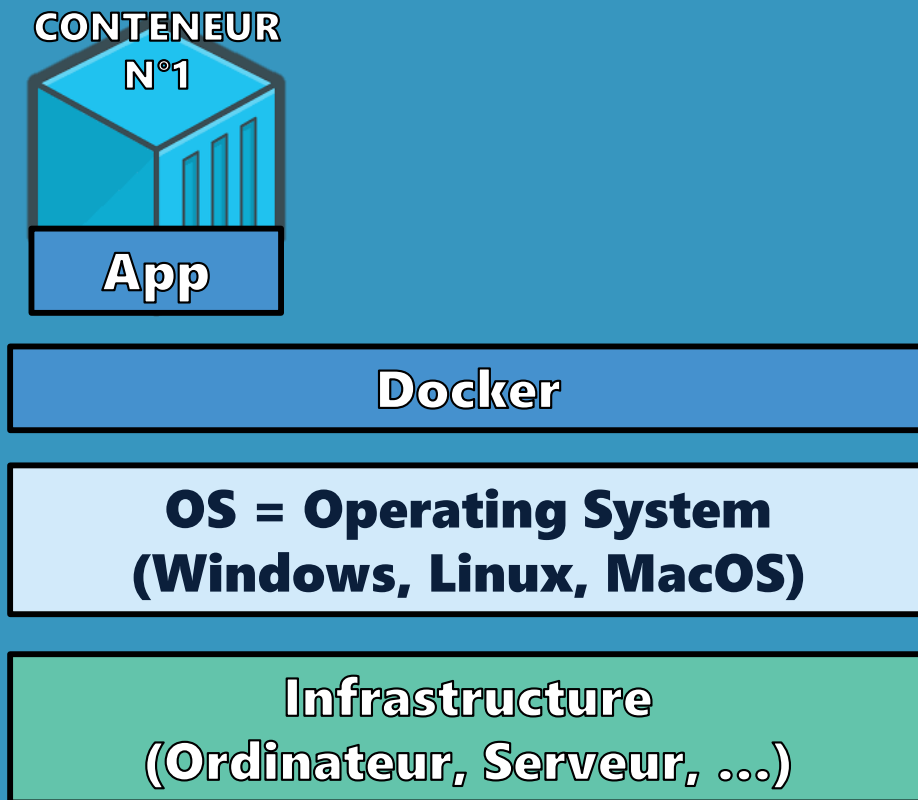
OS = Operating System
(Windows, Linux, MacOS)

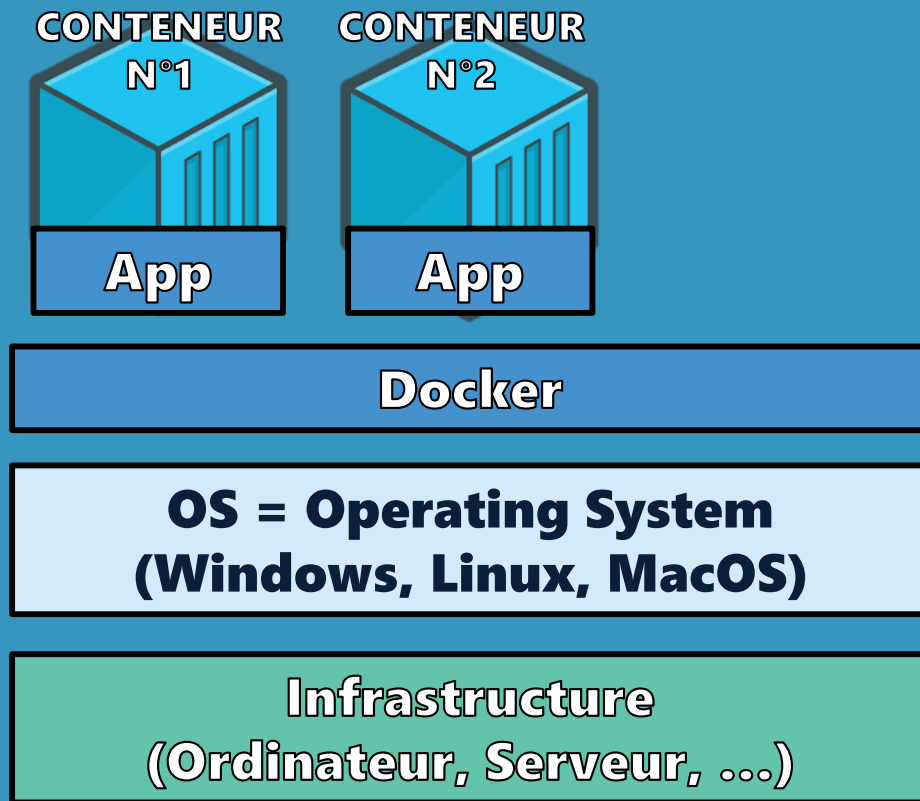
Infrastructure
(Ordinateur, Serveur, ...)

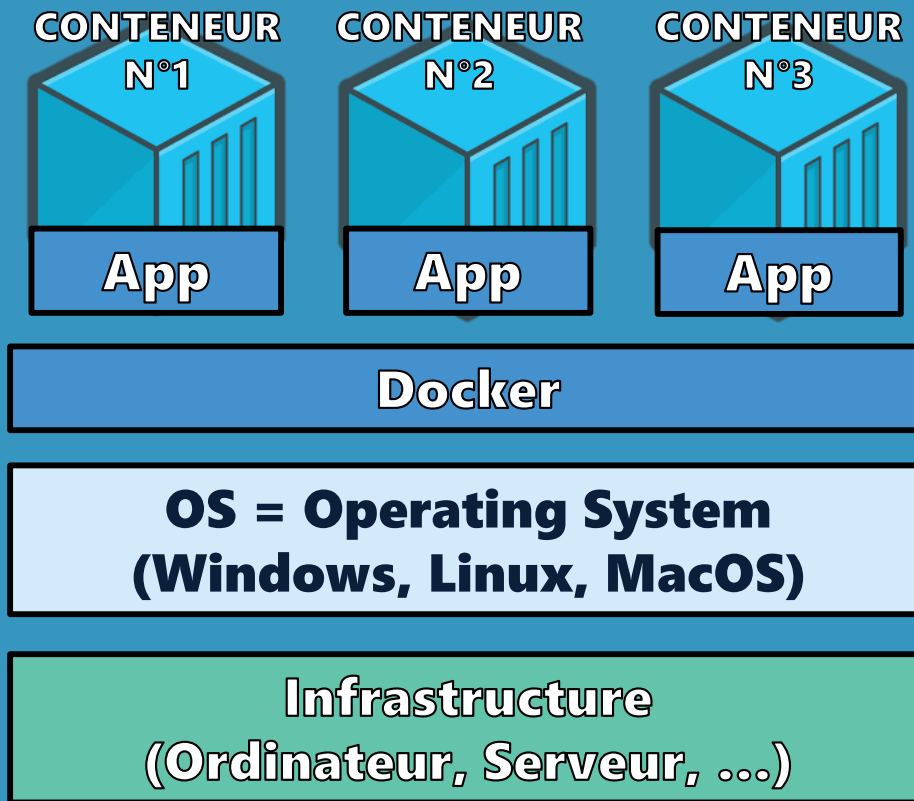
Docker

**OS = Operating System
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**Infrastructure
(Ordinateur, Serveur, ...)**









**QUELLE DIFFÉRENCE AVEC
LES MACHINES VIRTUELLES ?**

Infrastructure
(Ordinateur, Serveur, ...)

CONTENEUR

Infrastructure
(Ordinateur, Serveur, ...)

MACHINE VIRTUELLE

OS = Operating System
(Windows, Linux, MacOS)

Infrastructure
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CONTENEUR

Hypervisor

Infrastructure
(Ordinateur, Serveur, ...)

MACHINE VIRTUELLE

Docker

**OS = Operating System
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CONTENEUR



VM 1

OS

Hypervisor

**Infrastructure
(Ordinateur, Serveur, ...)**

MACHINE VIRTUELLE

CONTENEUR
N°1



App

Docker

OS = Operating System
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CONTENEUR



VM 1

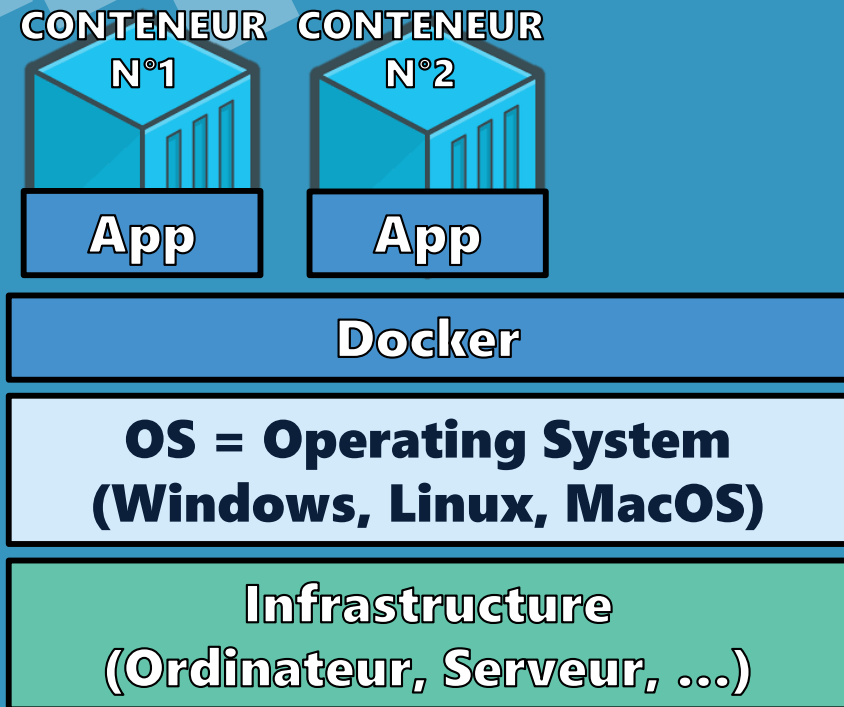
App

OS

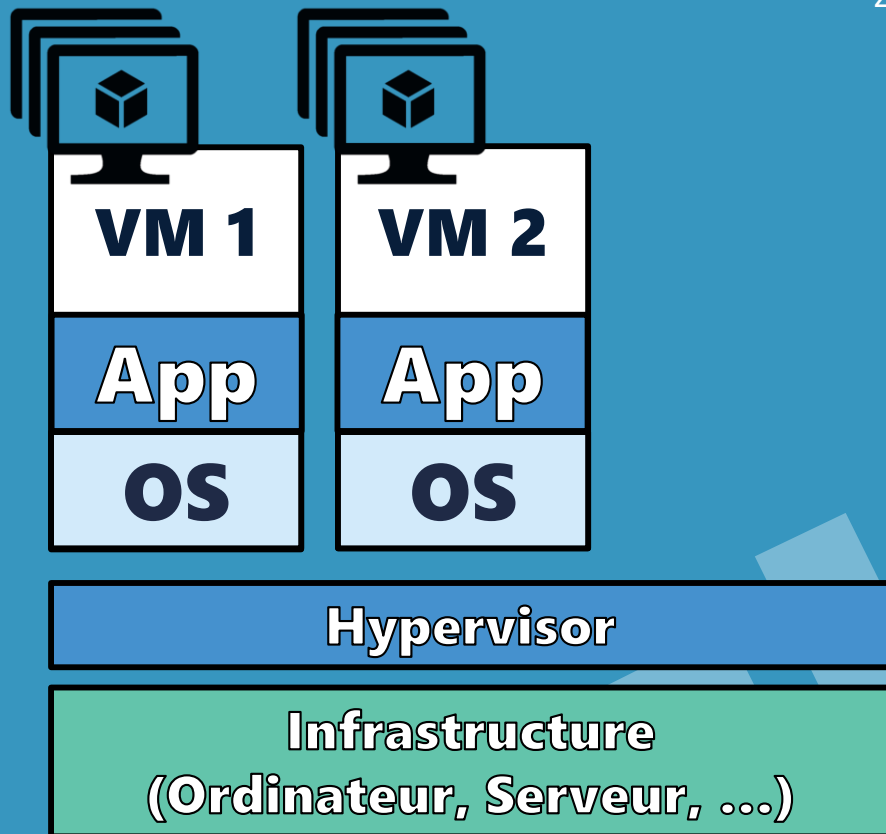
Hypervisor

Infrastructure
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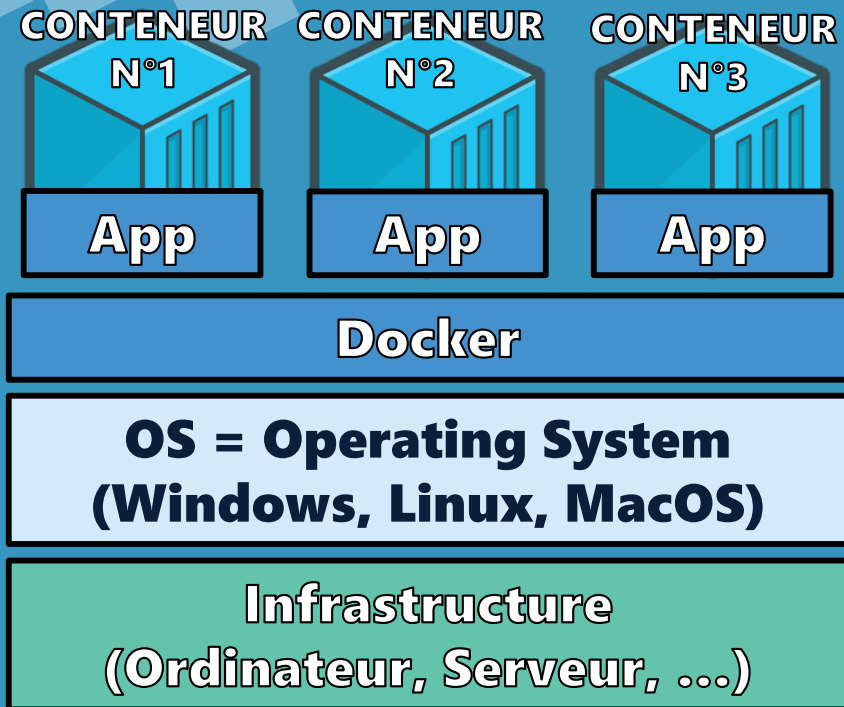
MACHINE VIRTUELLE



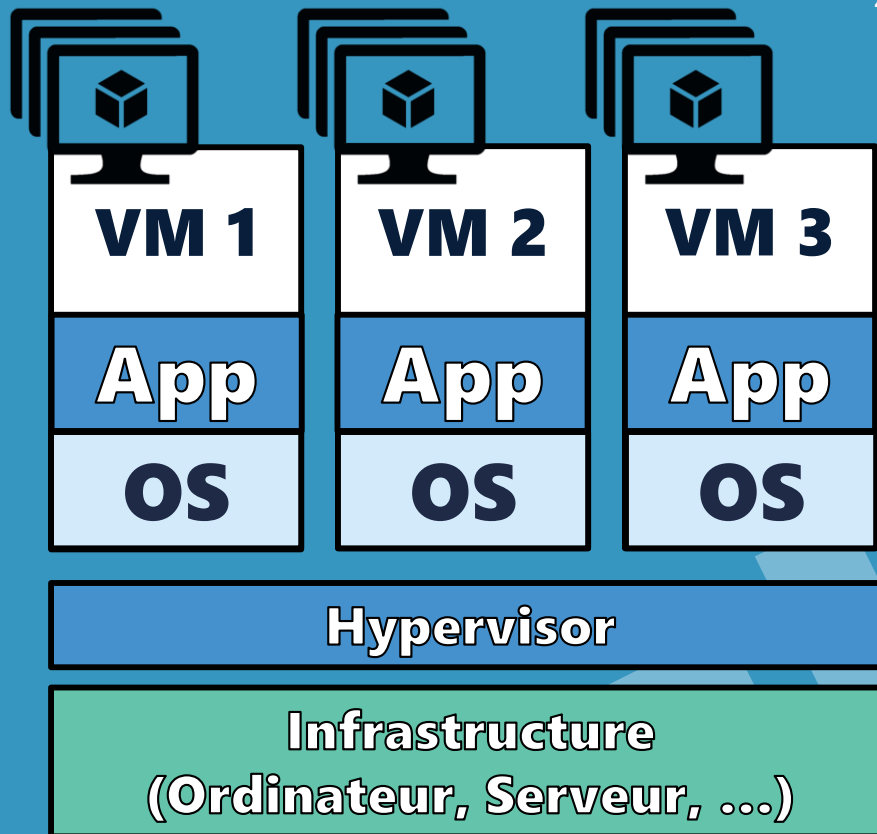
CONTENEUR



MACHINE VIRTUELLE



CONTENEUR



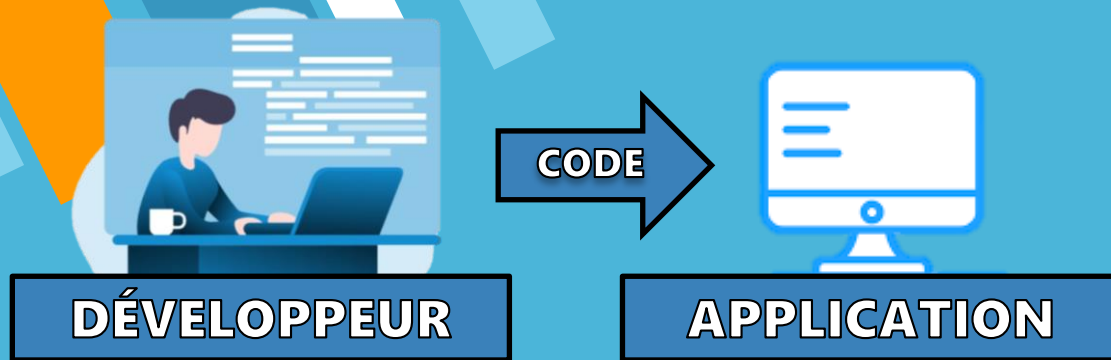
MACHINE VIRTUELLE



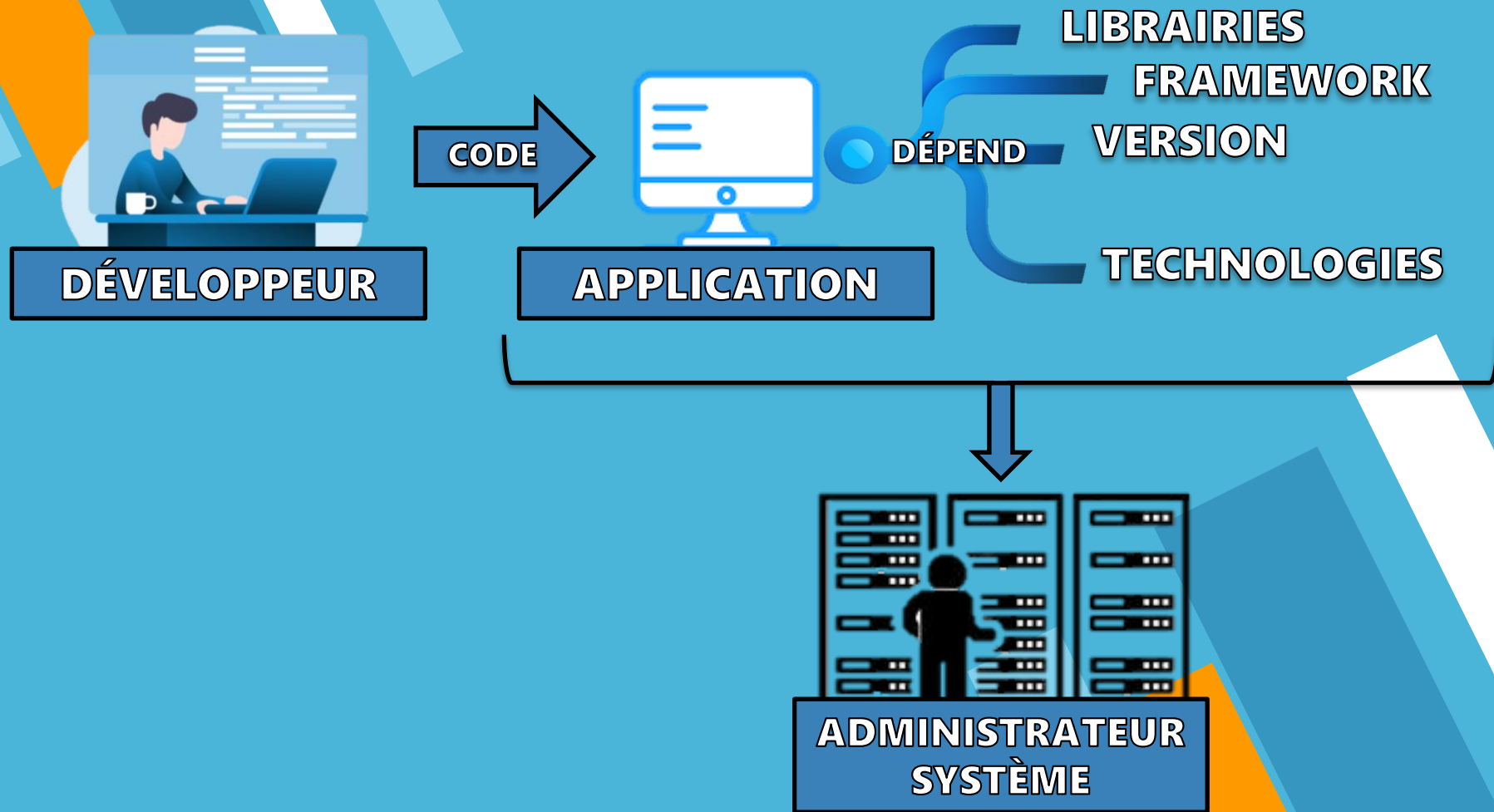
POURQUOI MAINTENANT ?

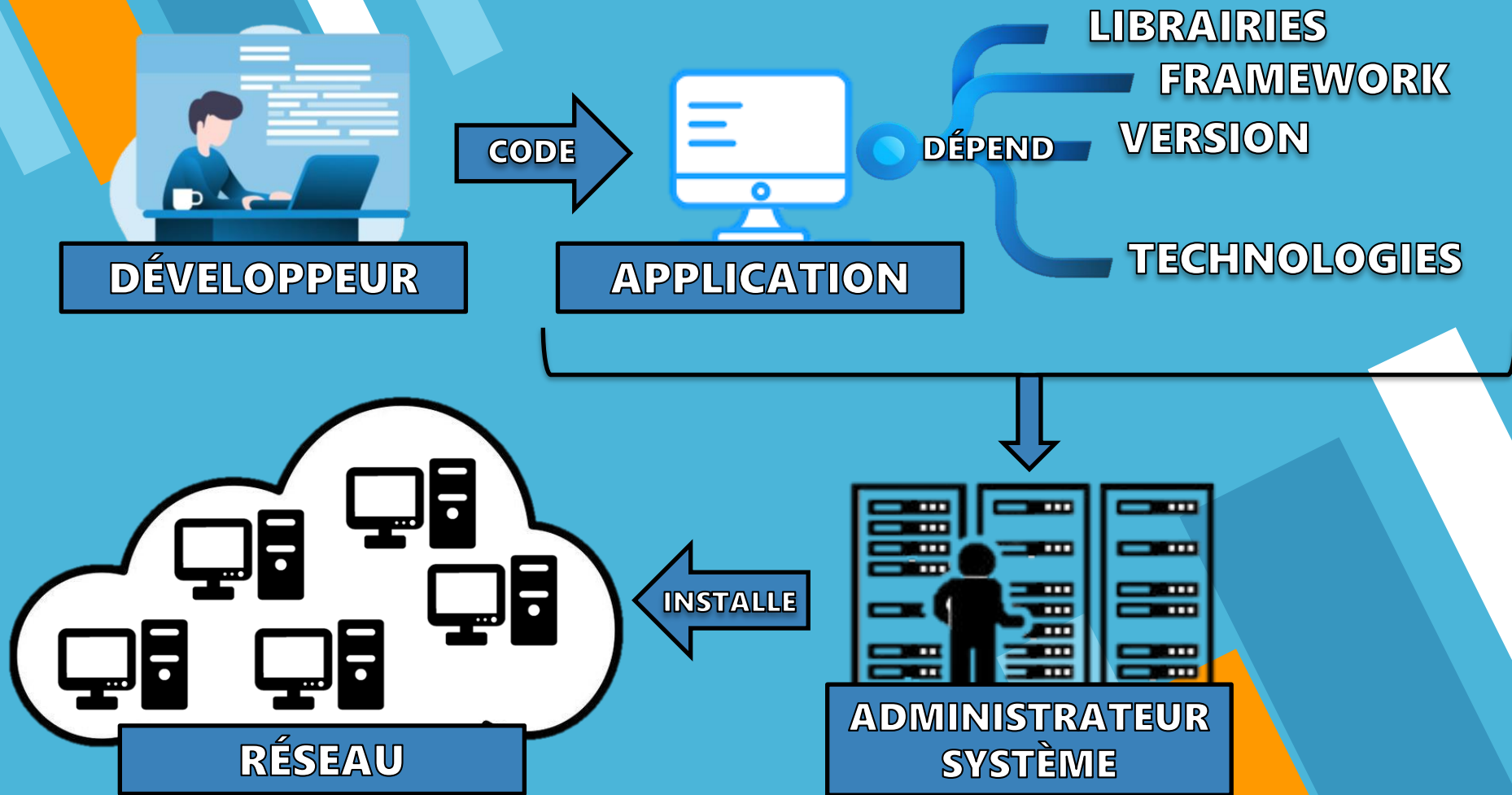


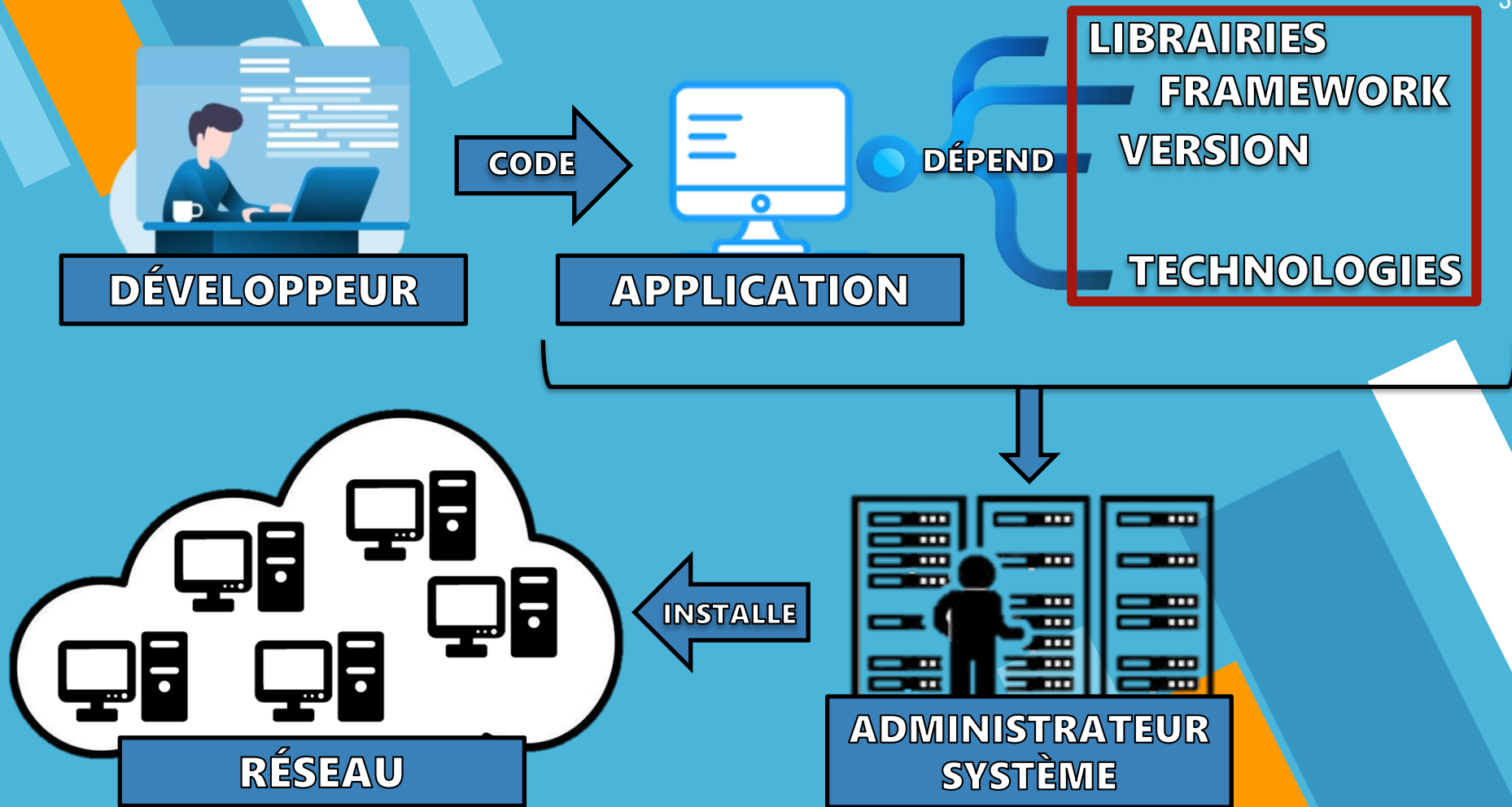
DÉVELOPPEUR

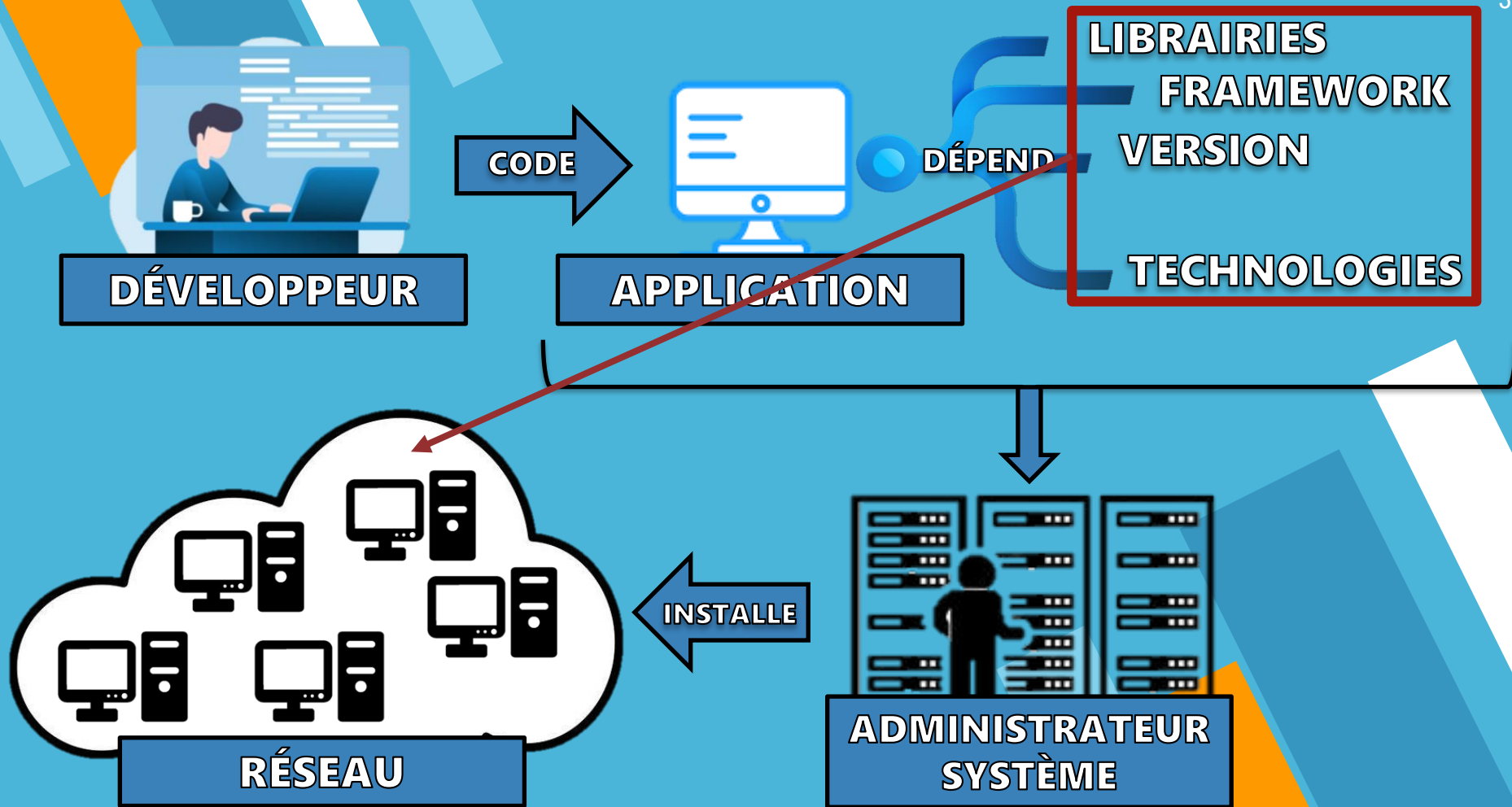


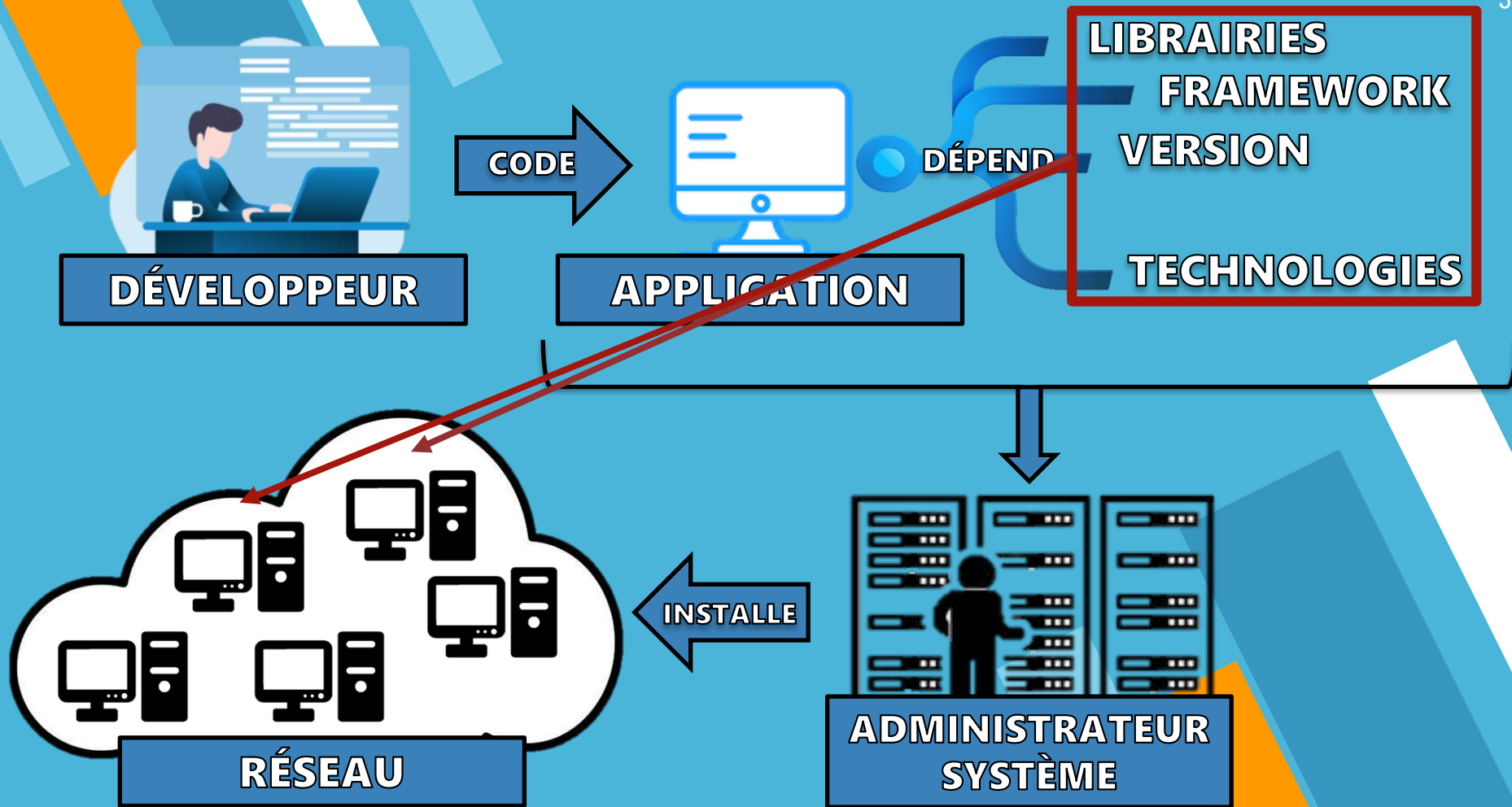


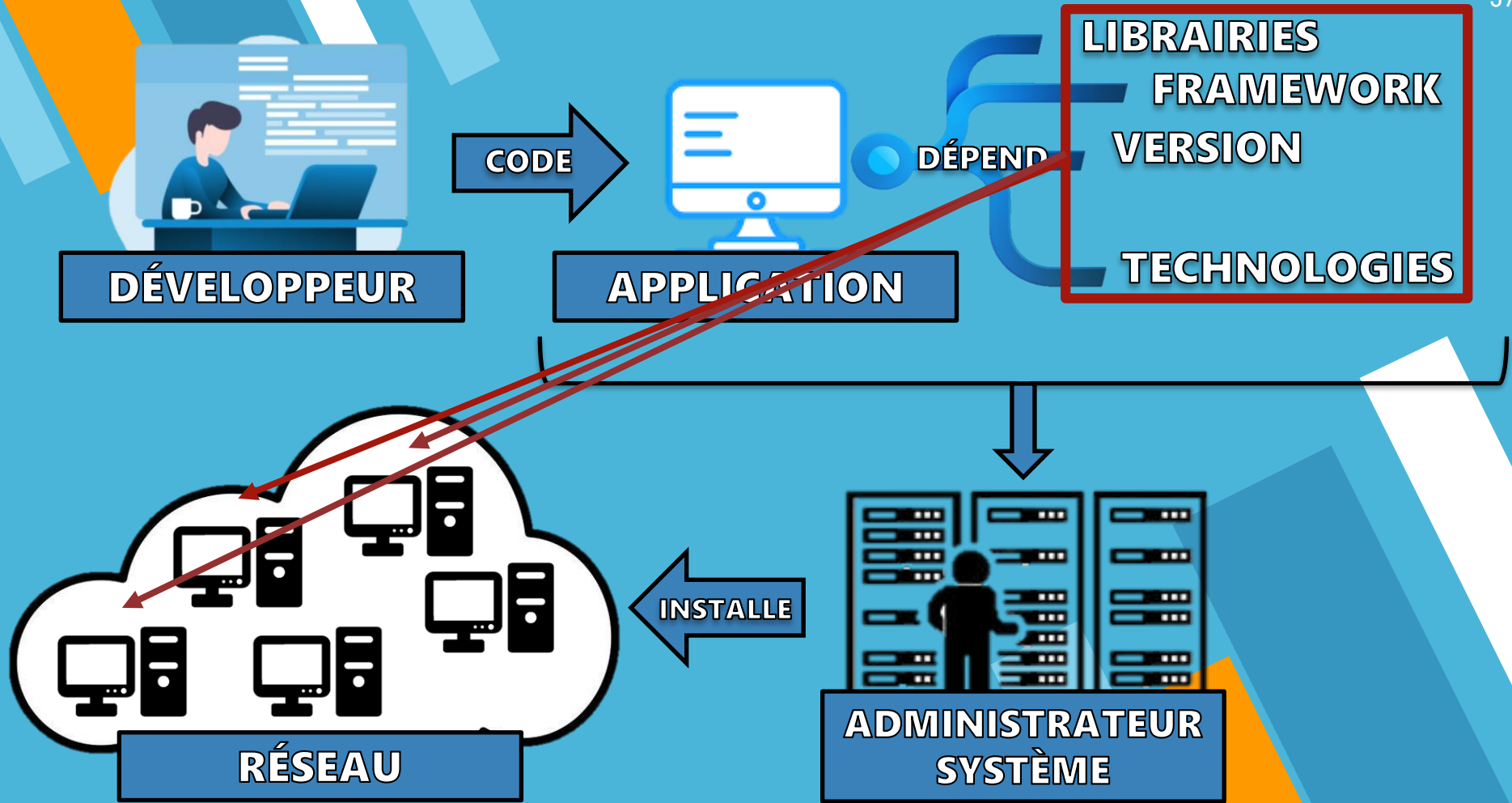


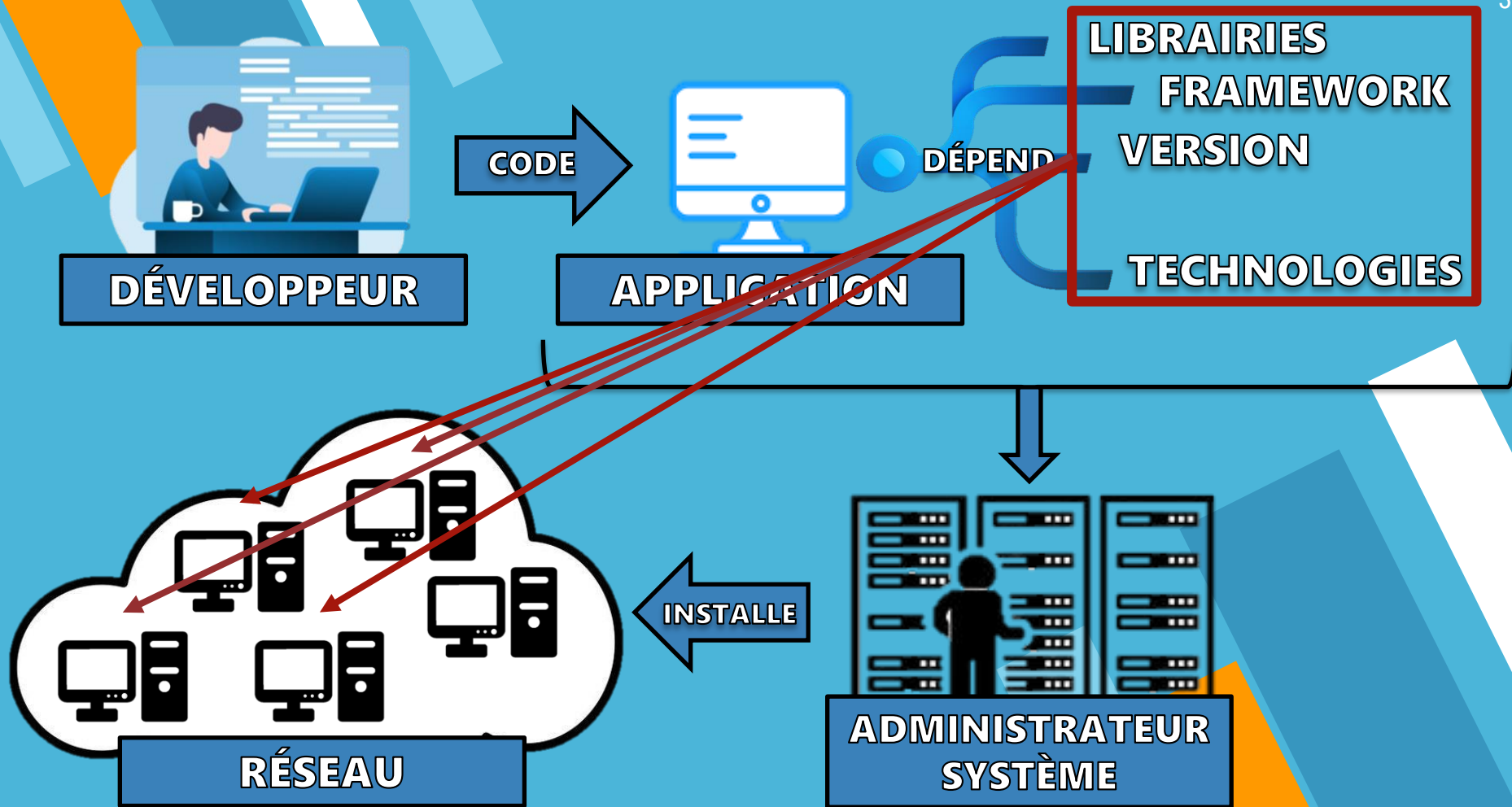


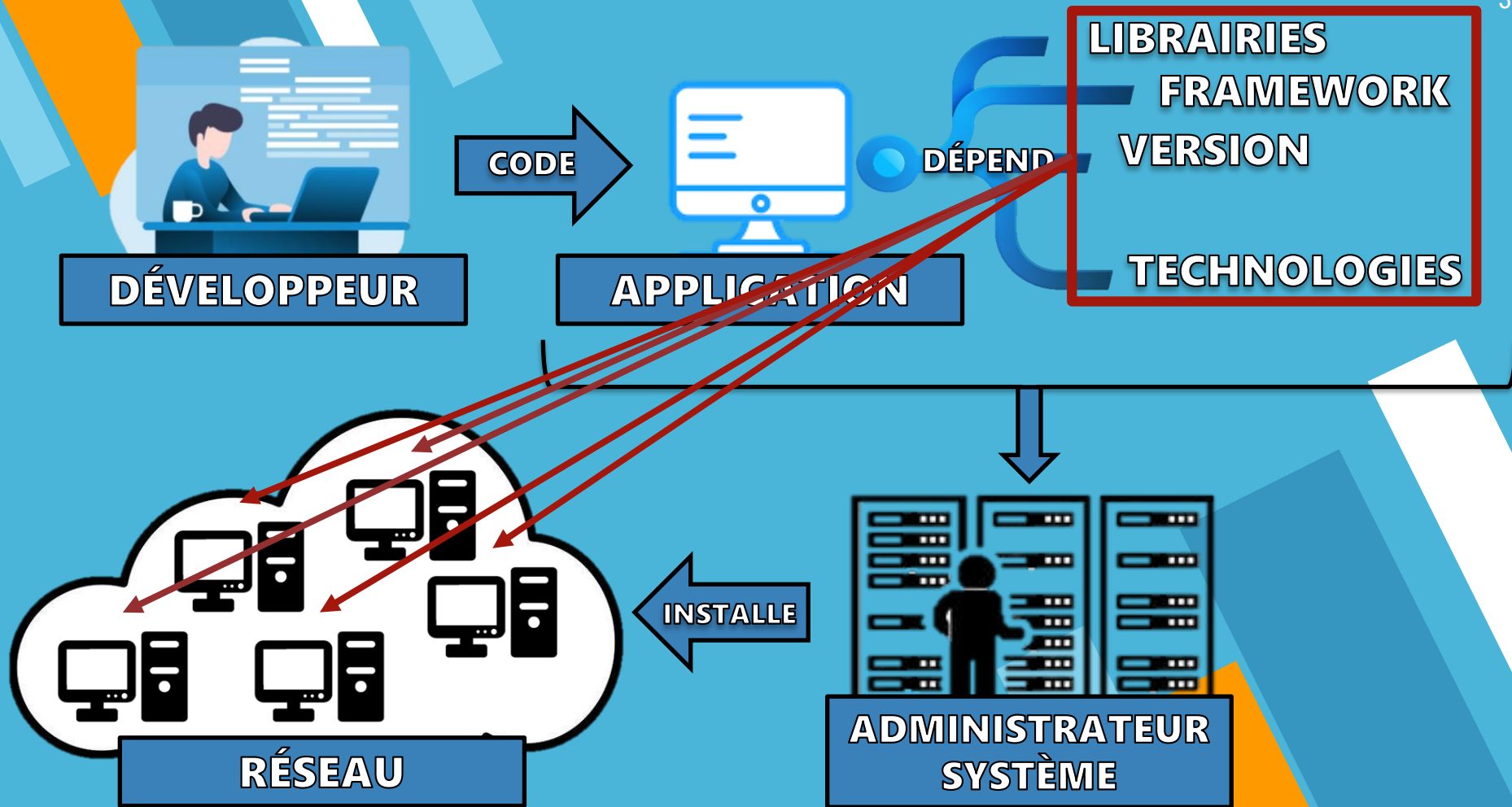


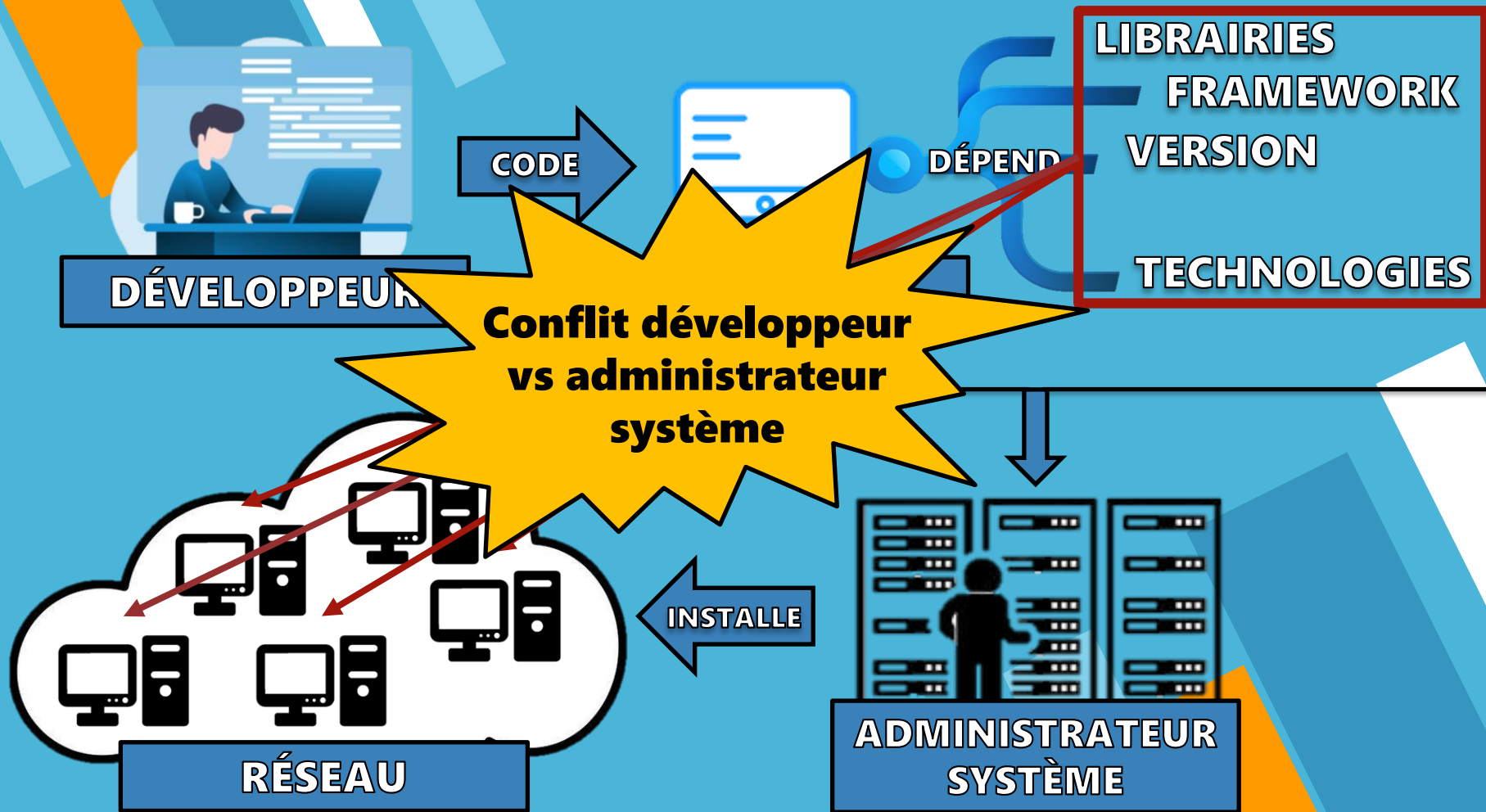








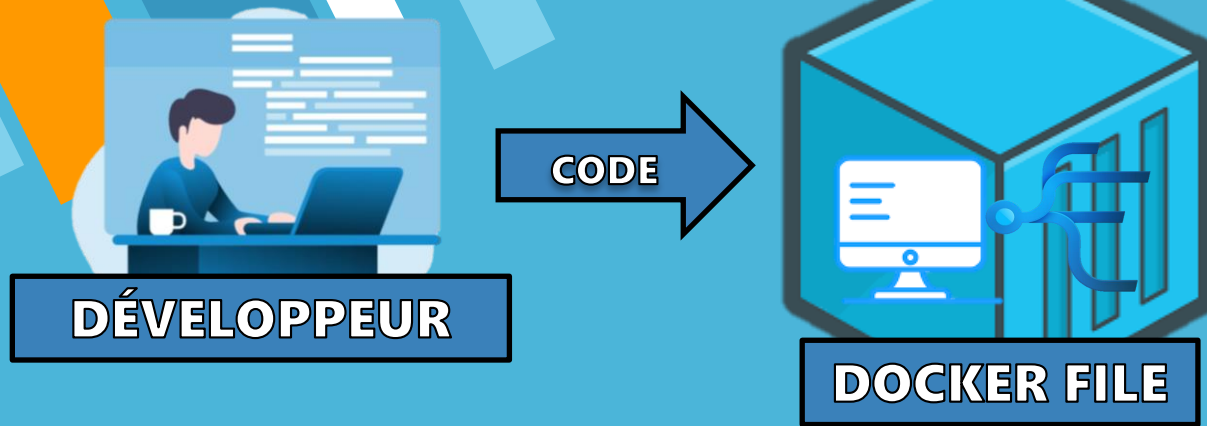


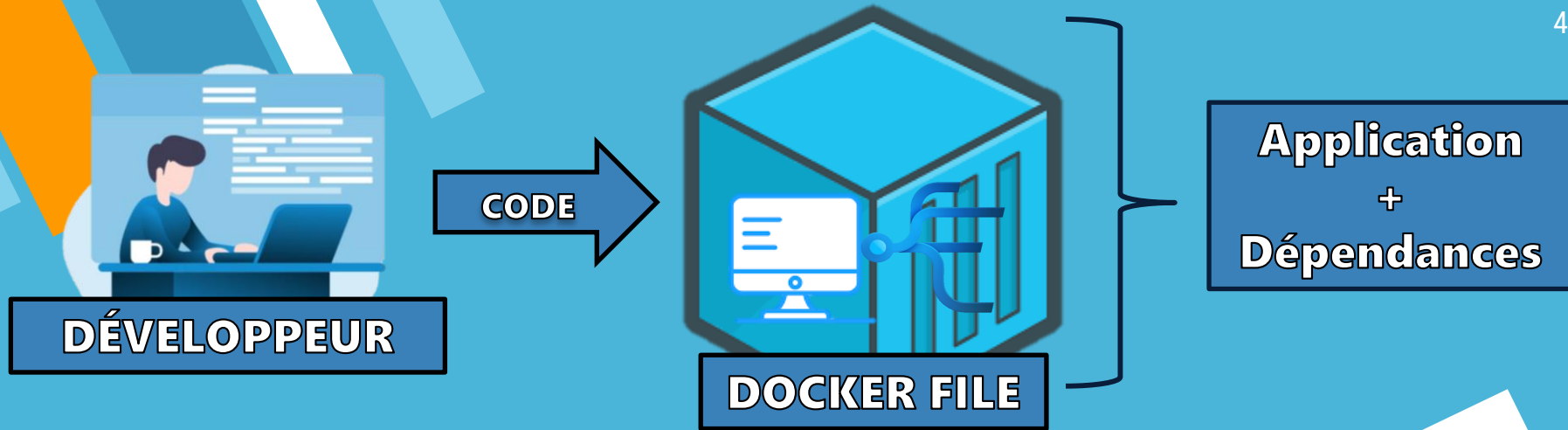


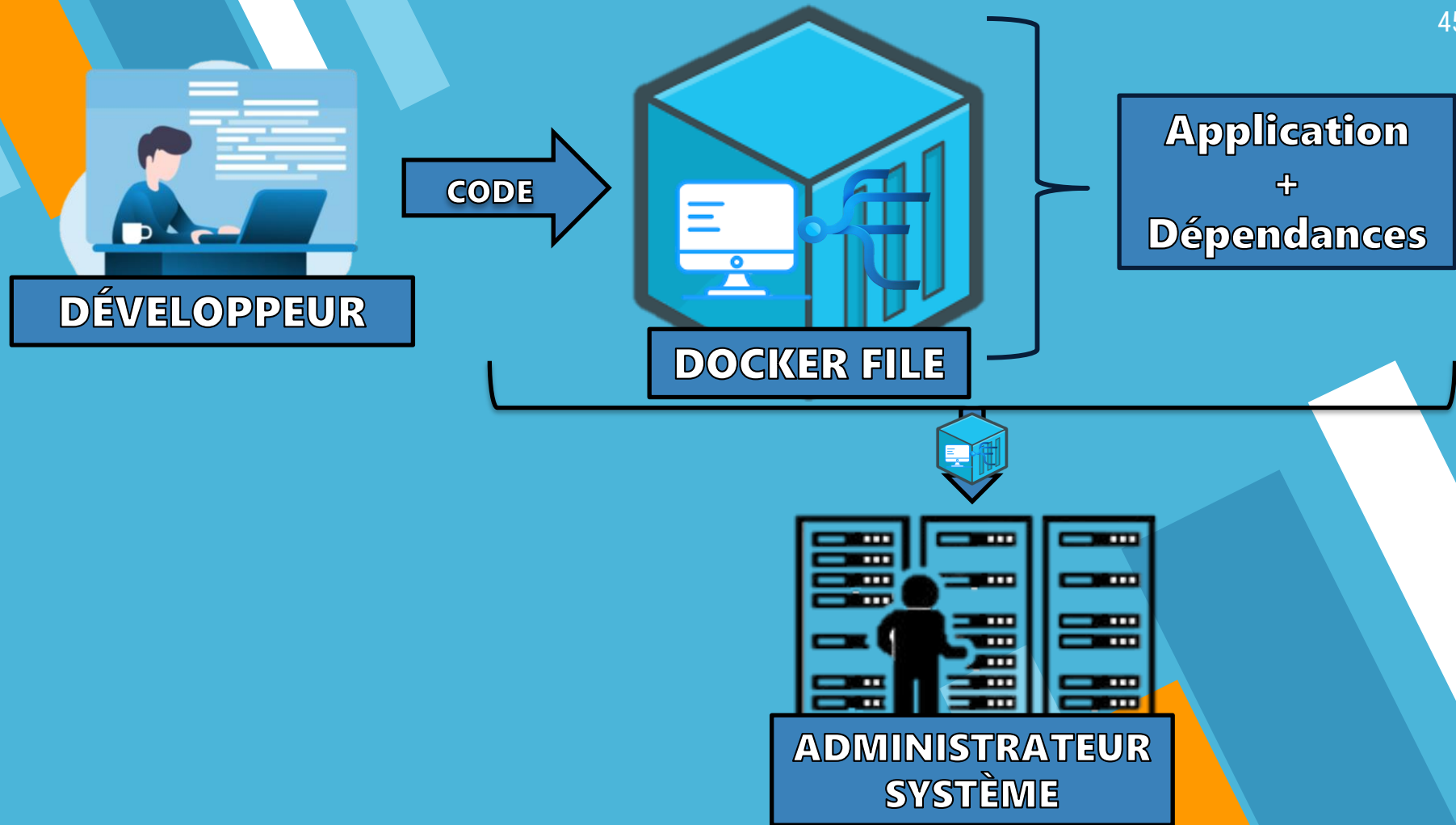
ET AVEC DOCKER ?

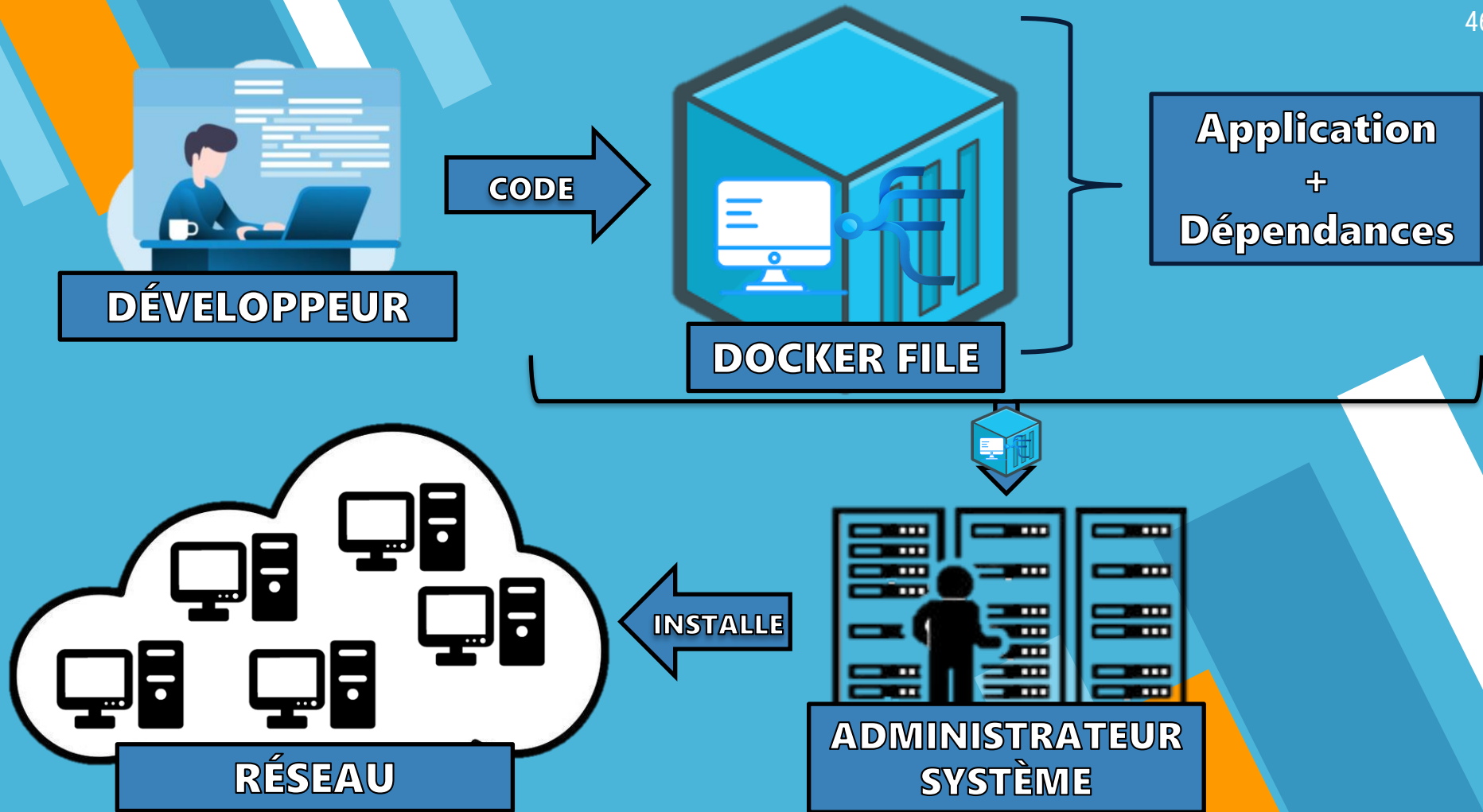


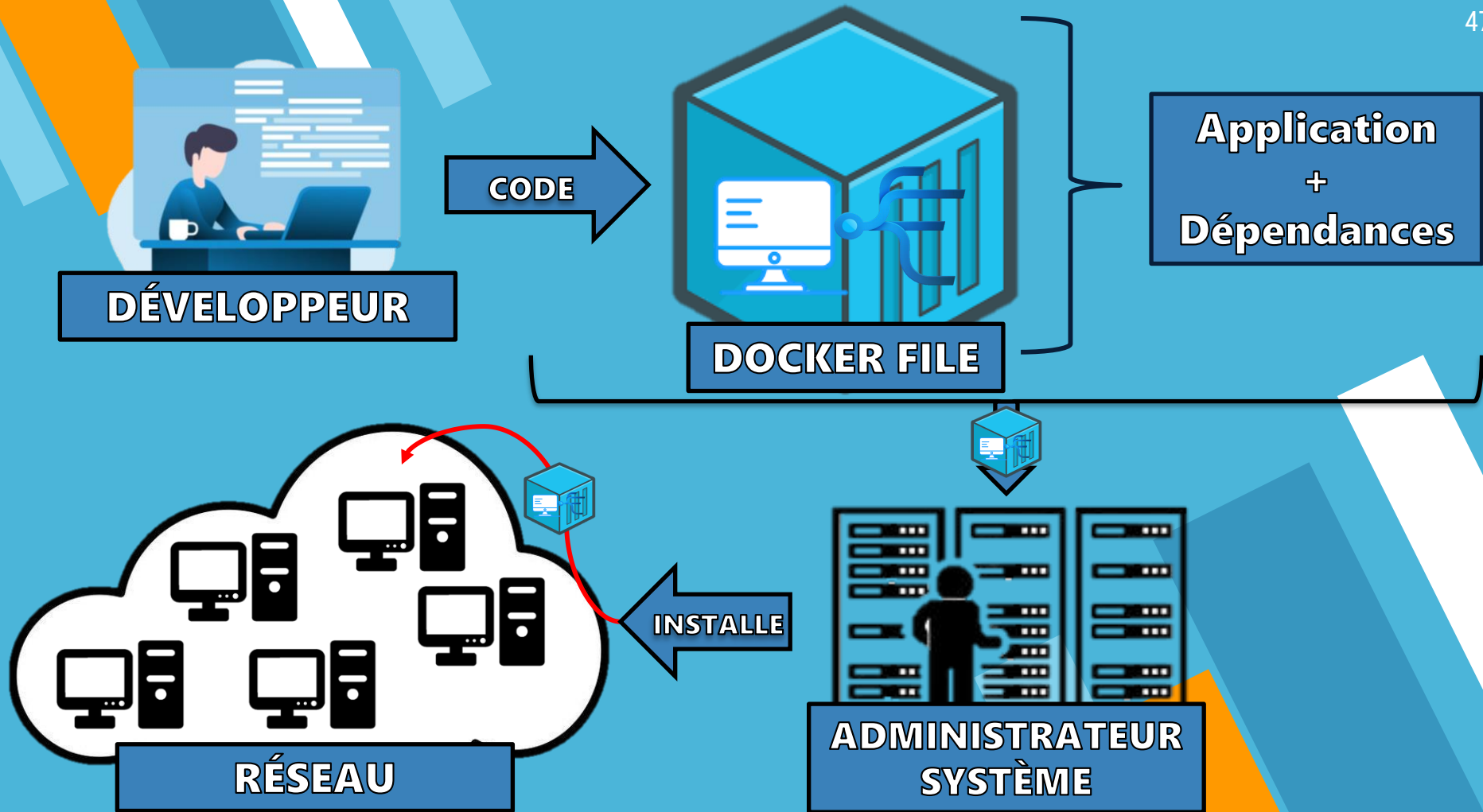
DÉVELOPPEUR

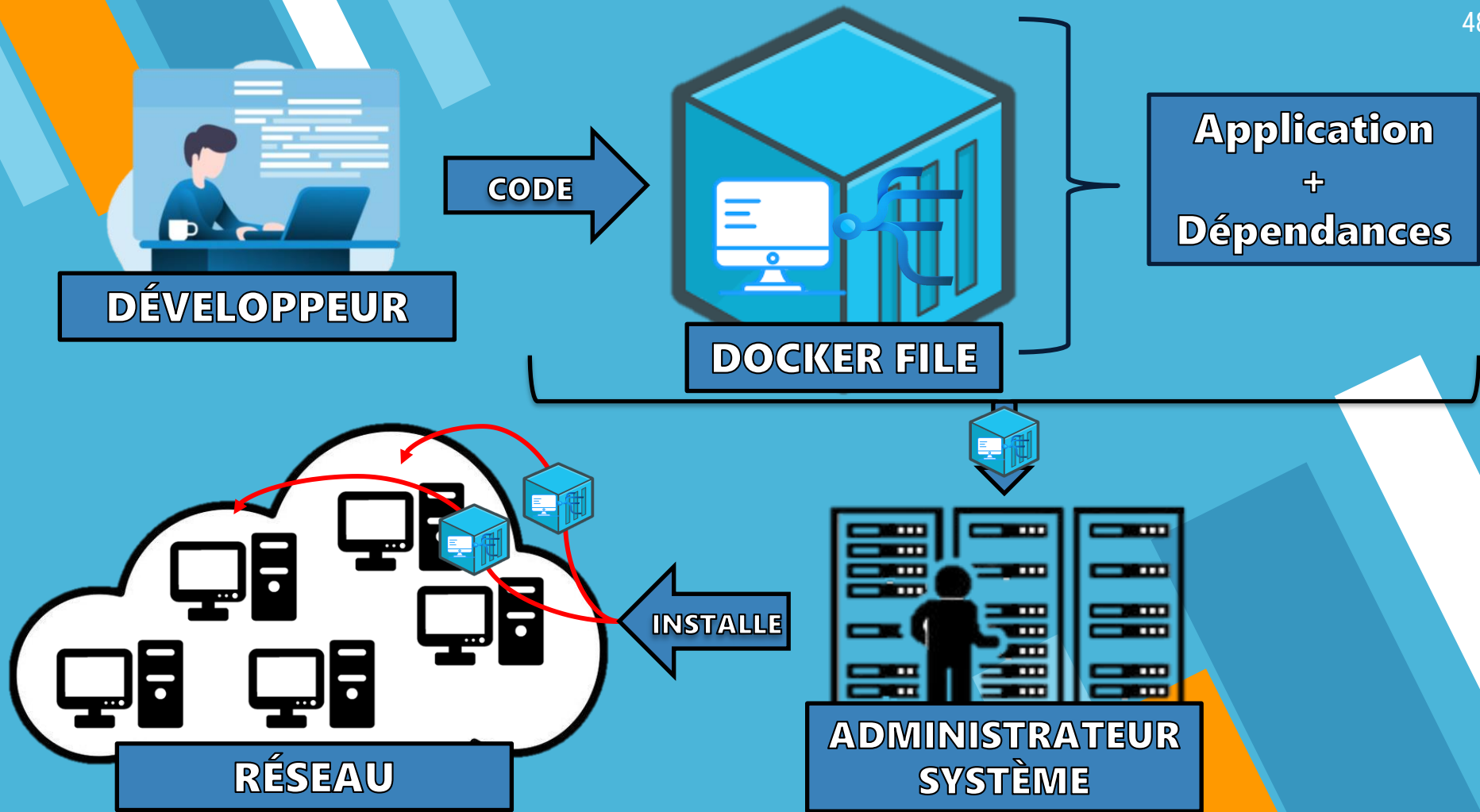


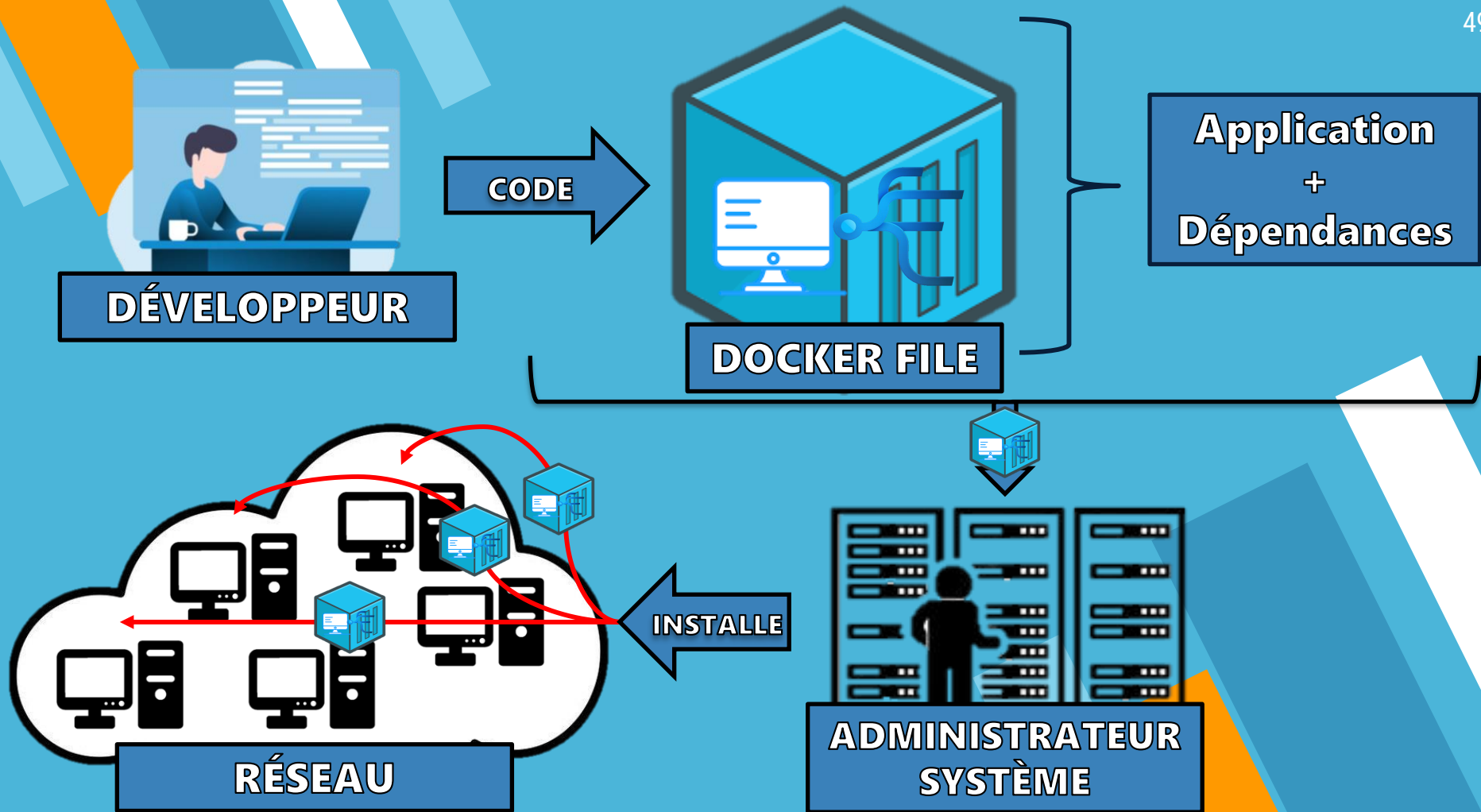


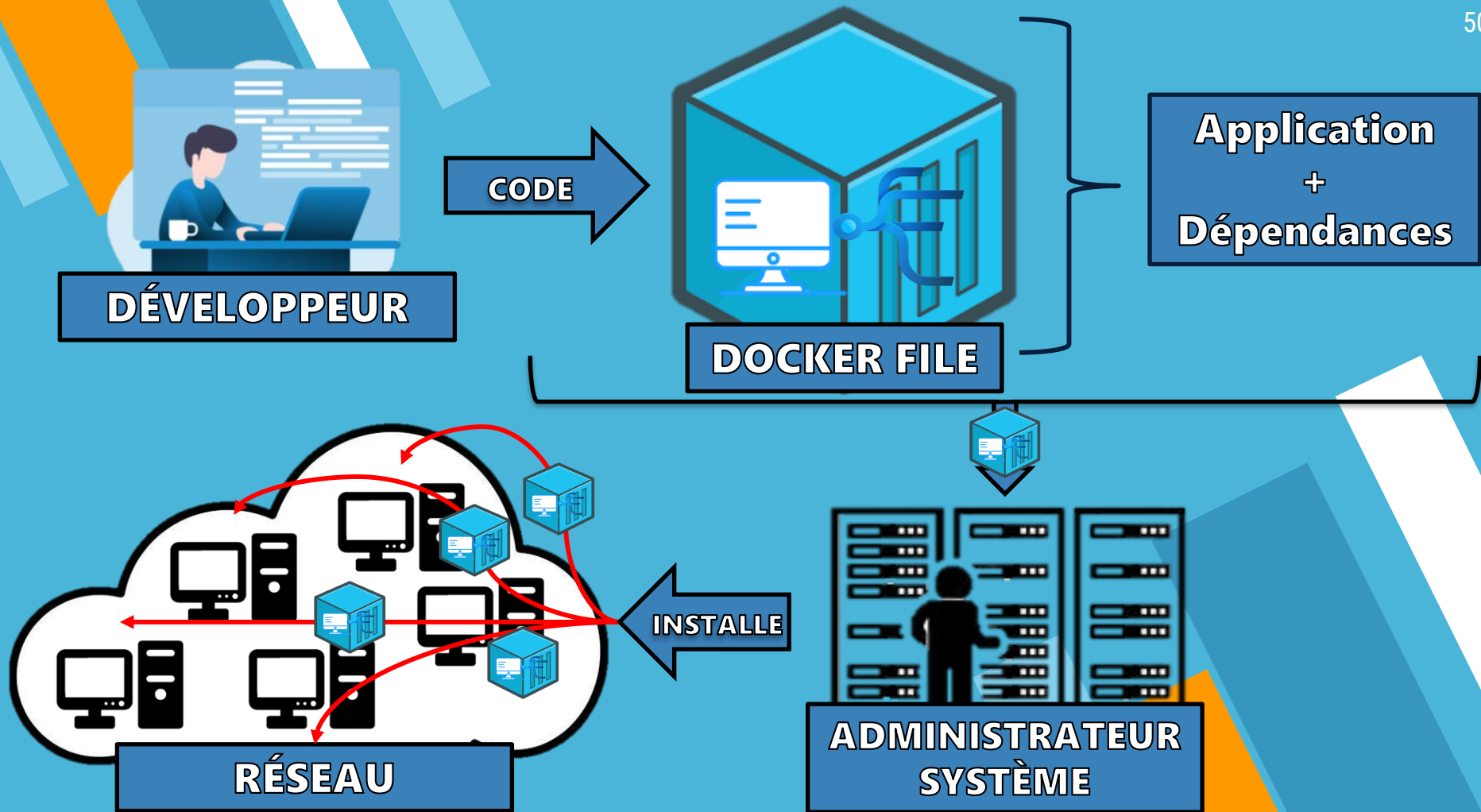


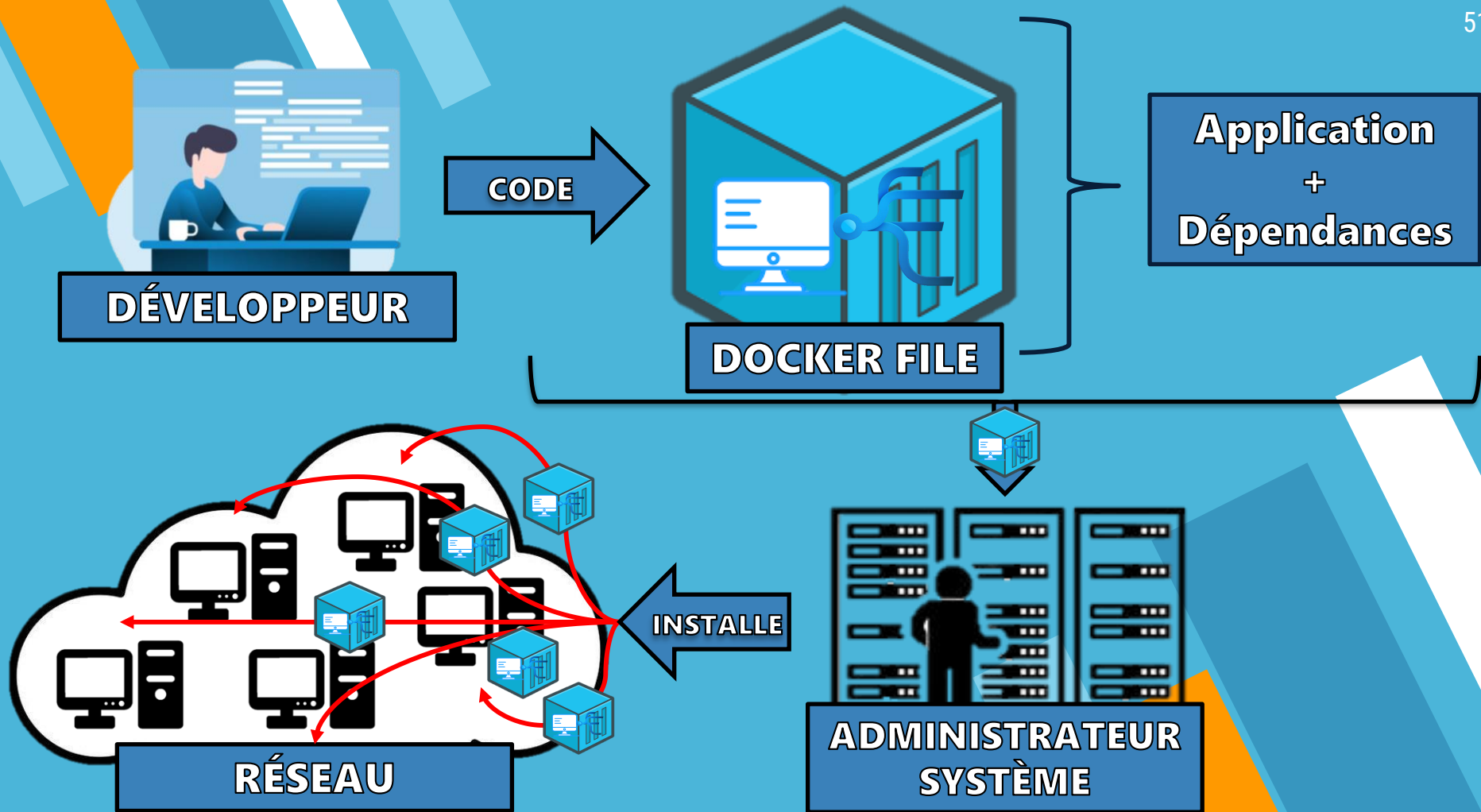




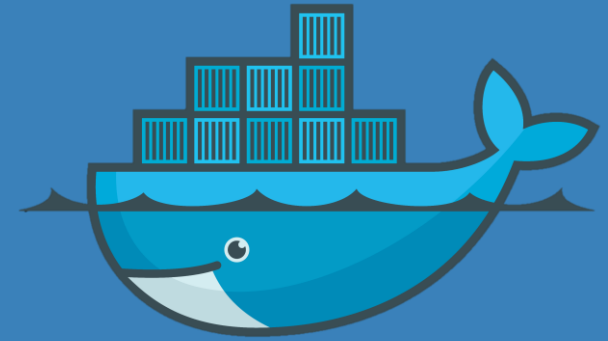








CONCRÈTEMENT COMMENT UTILISER DOCKER SUR UN PROJET ?



docker

Docker client



docker

Docker client



Docker daemon



docker

Docker client



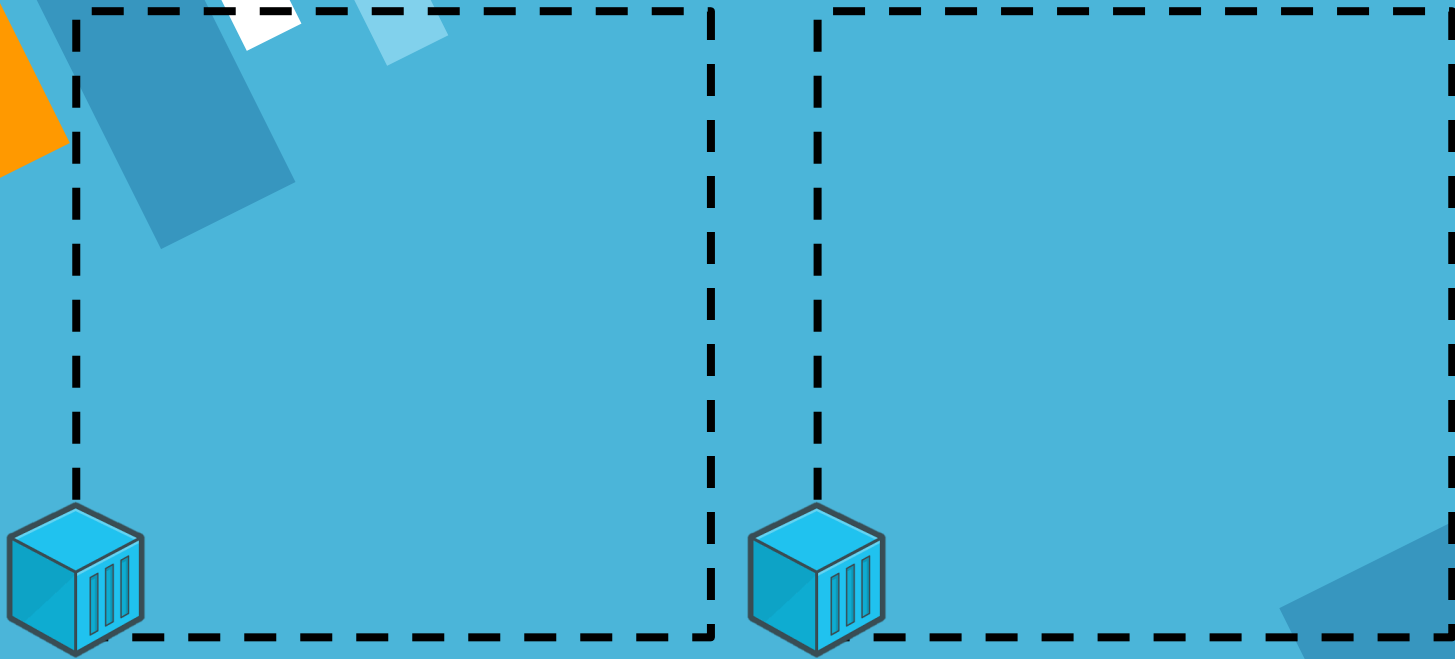
Docker daemon



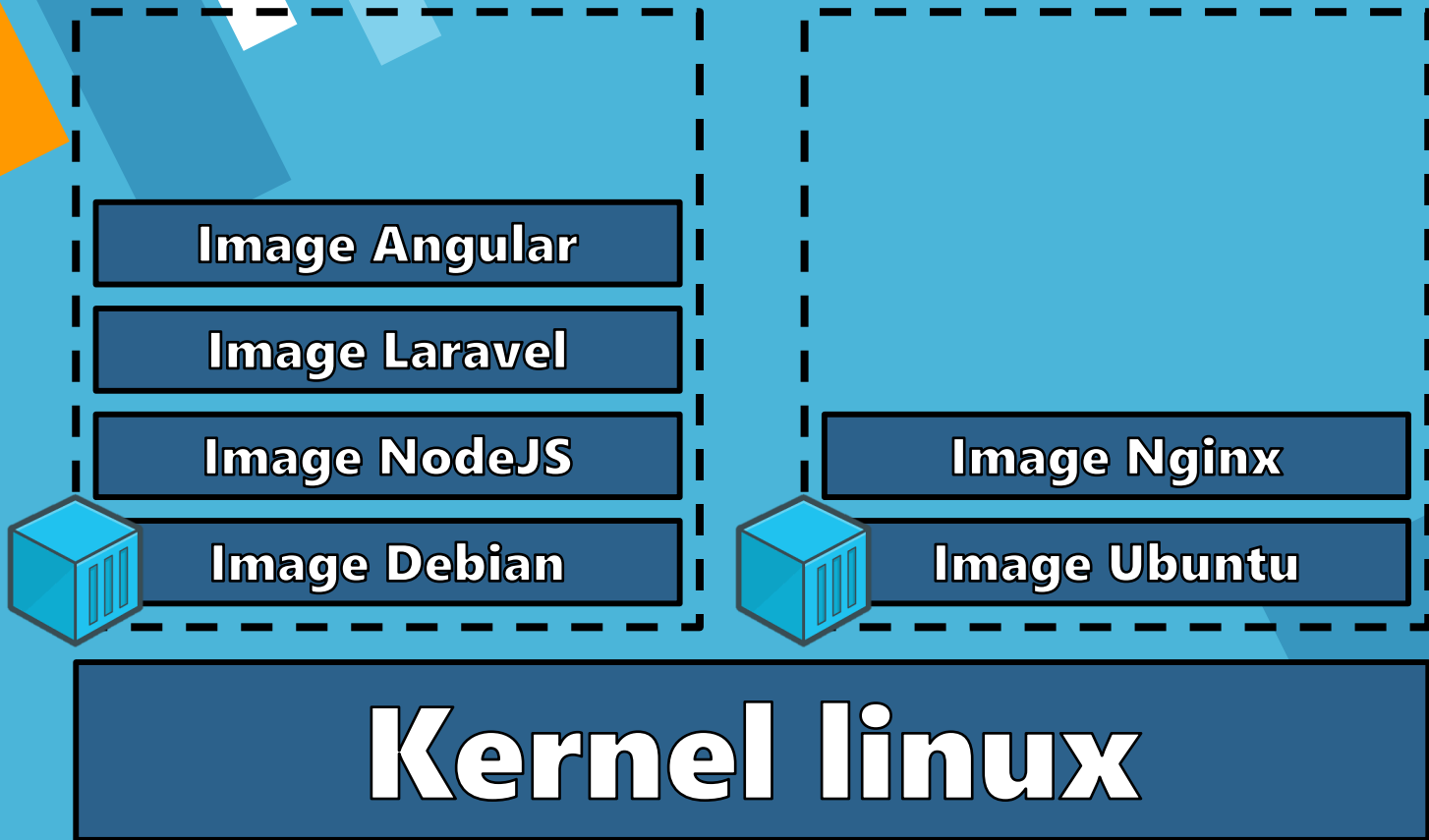
docker

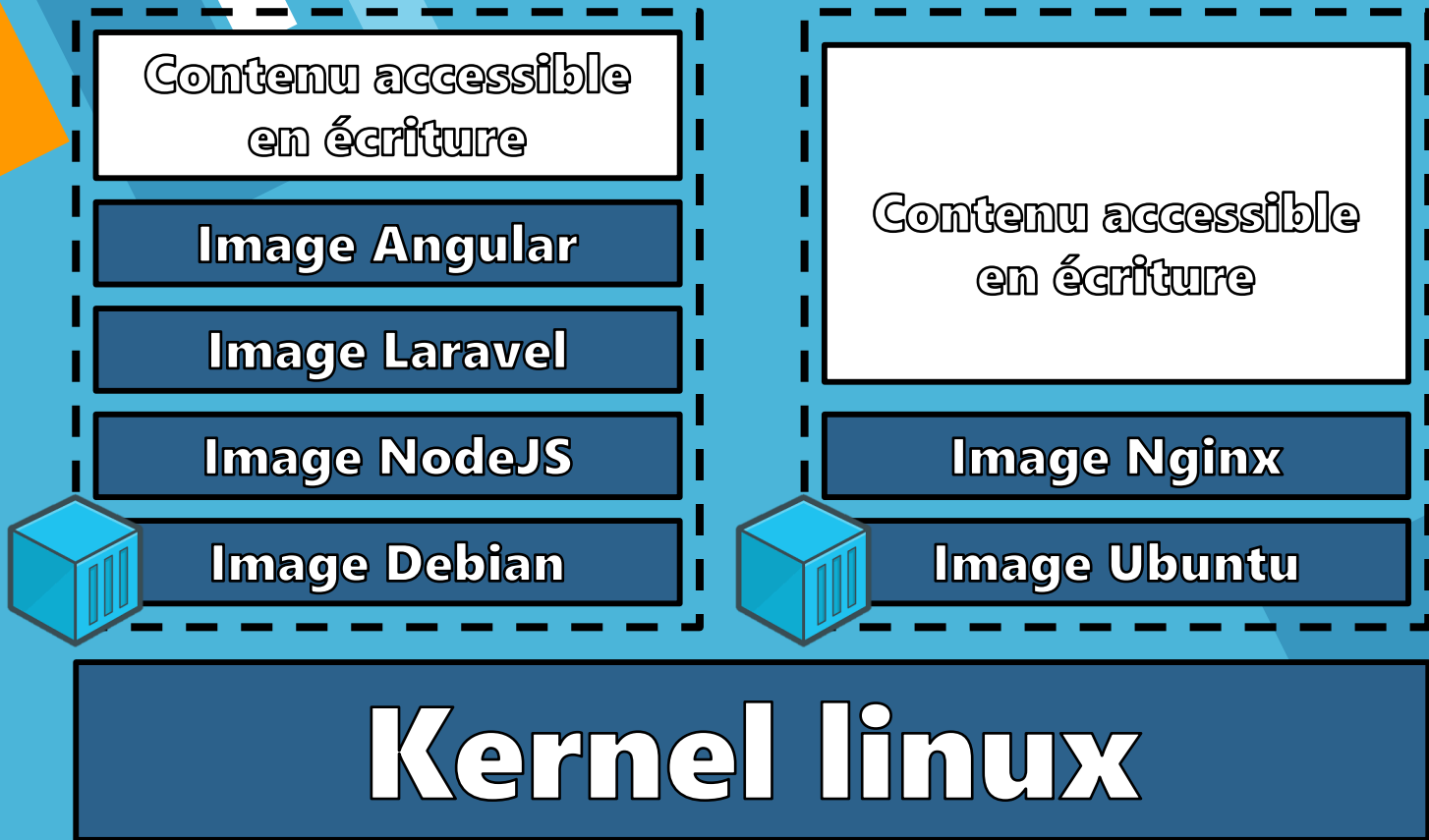


Kernel linux



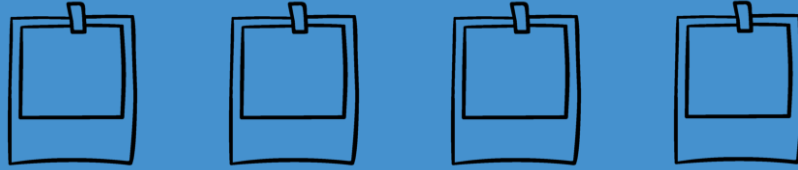
Kernel linux







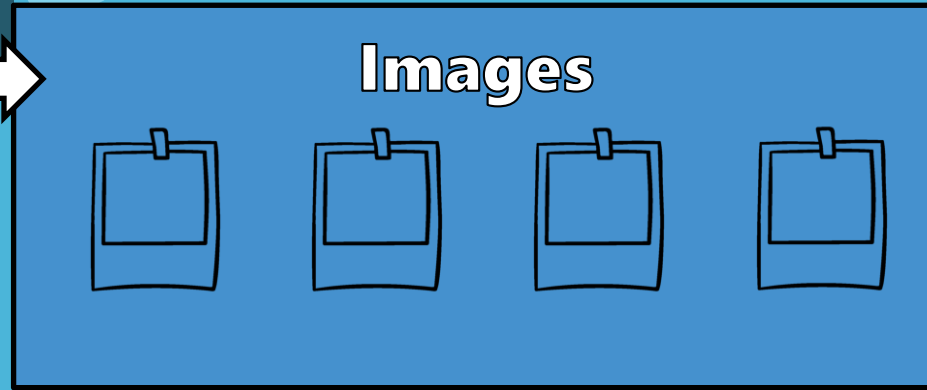
Images



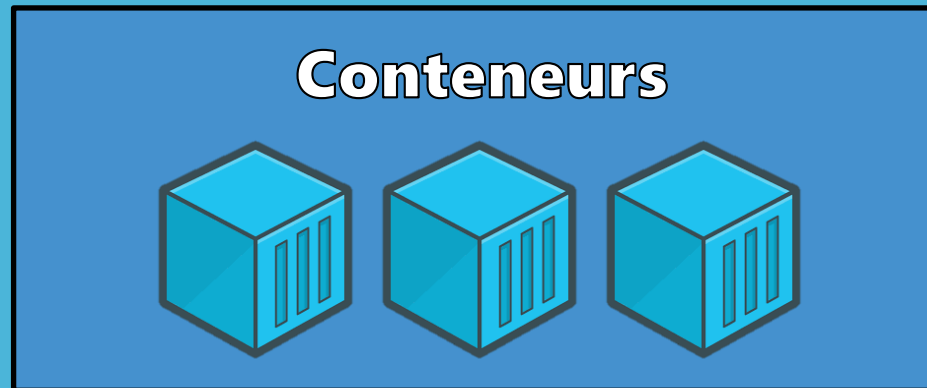
**Docker
File**

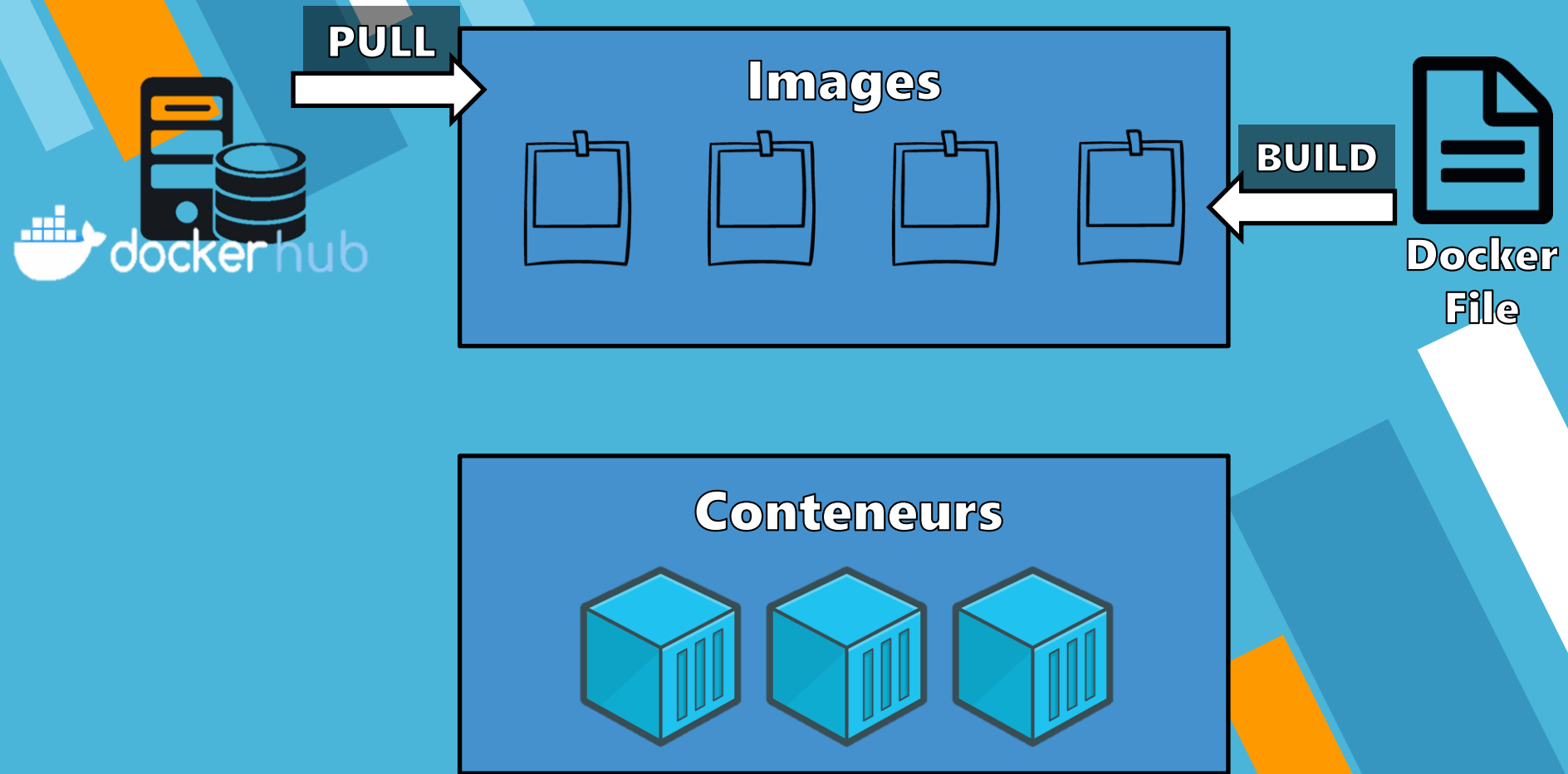
Conteneurs

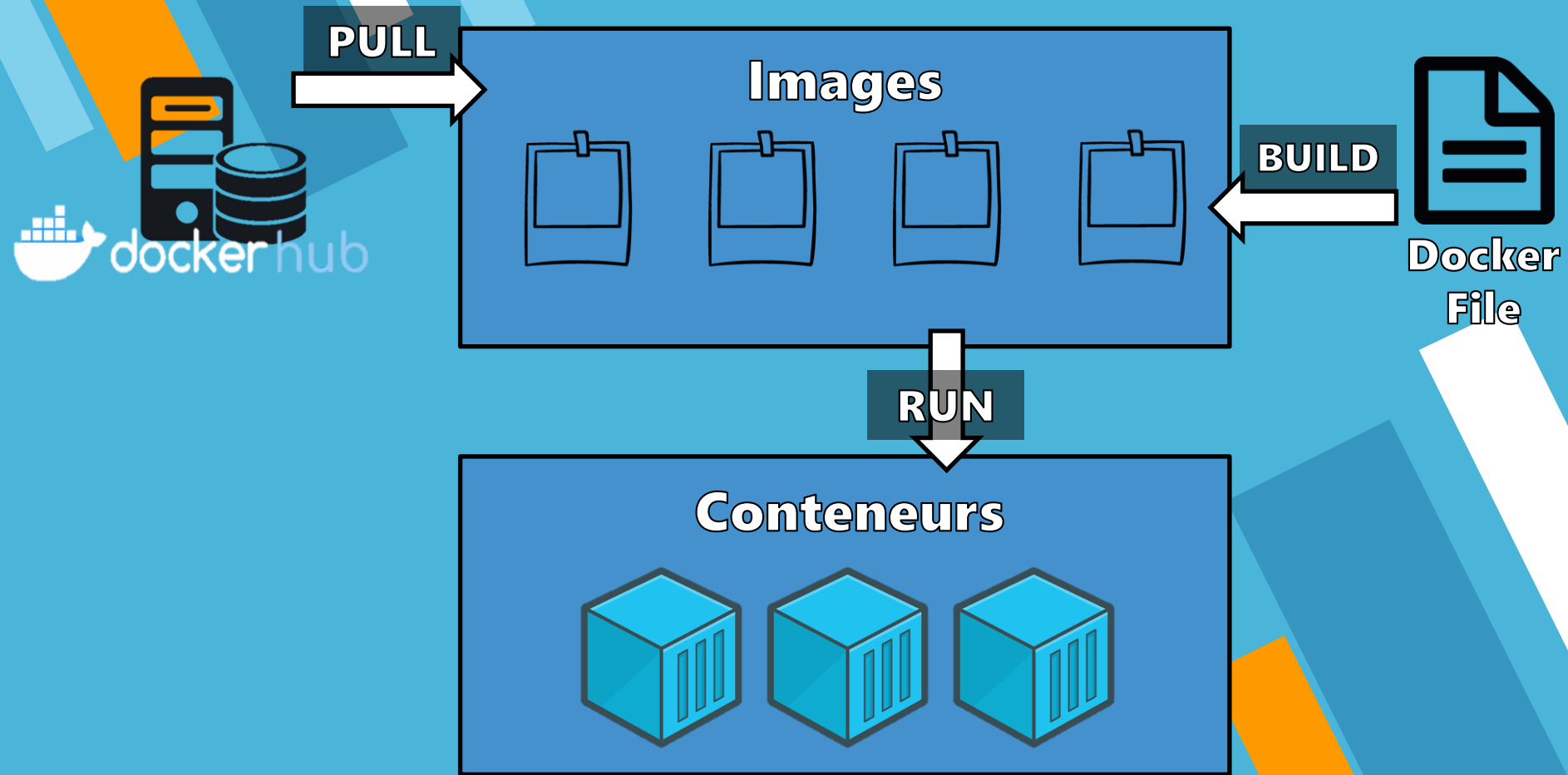


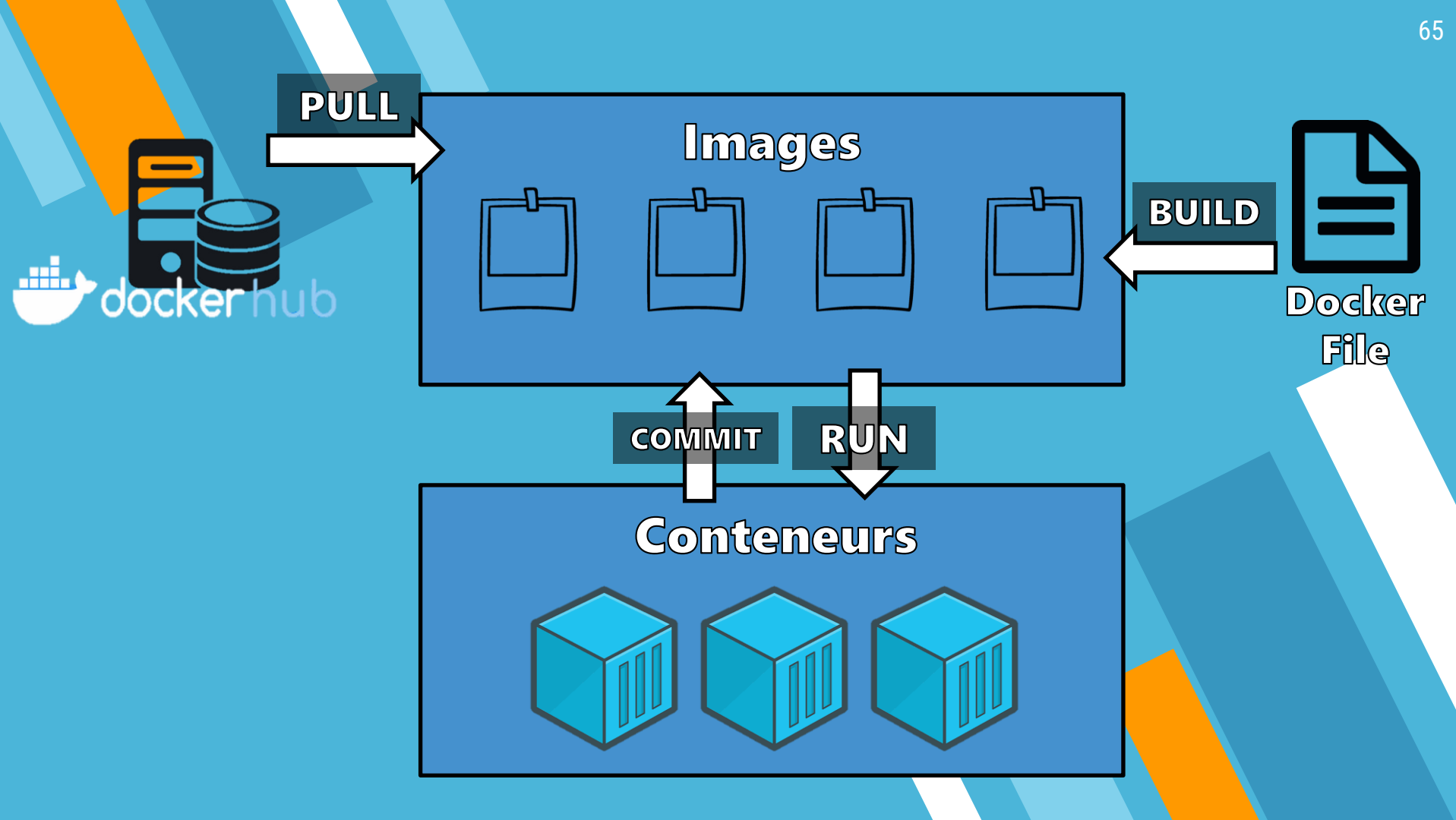


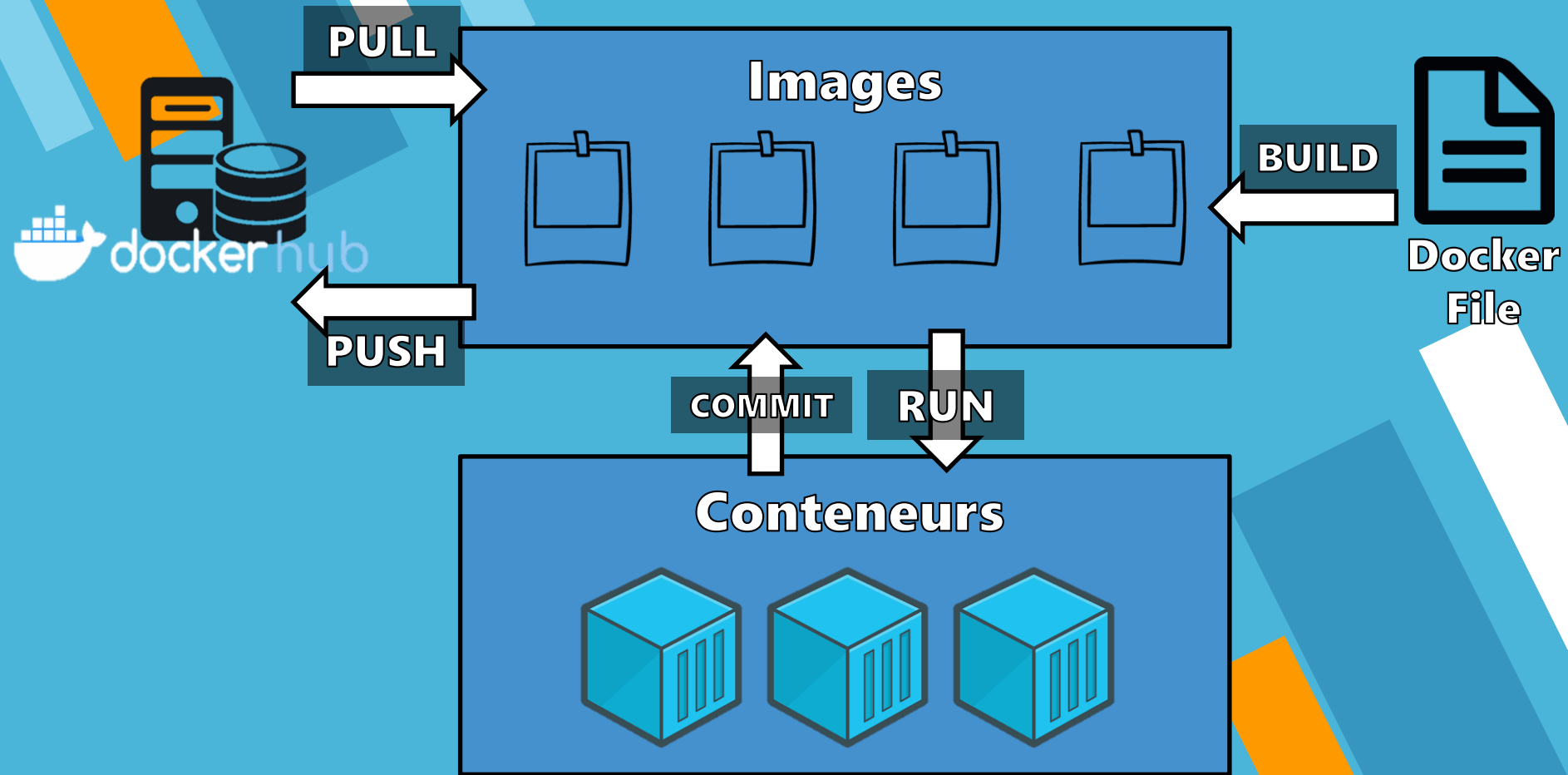
**Docker
File**











**MERCI DE VOTRE
ATTENTION !**