



# Multi-Tenant Architecture



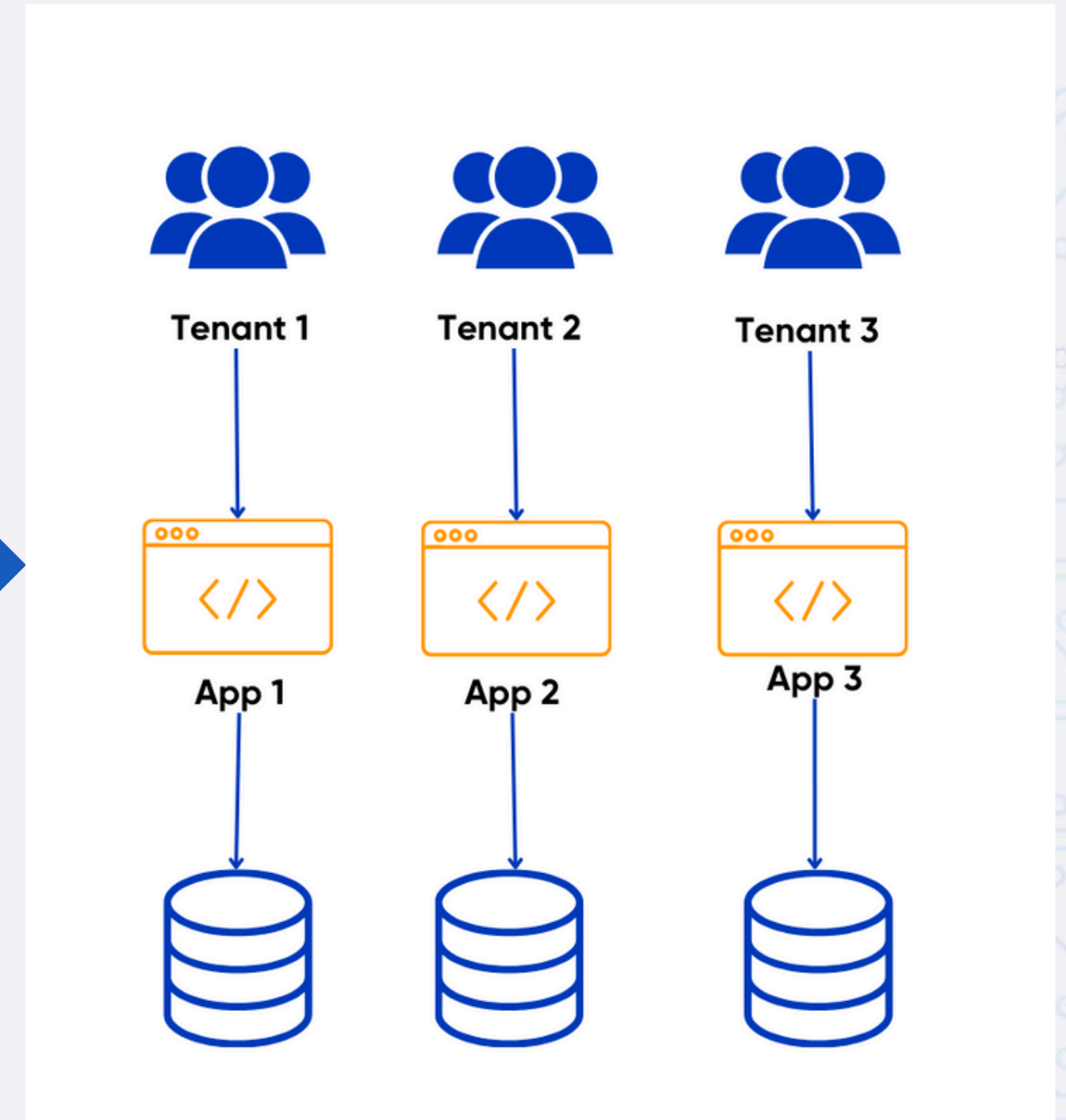
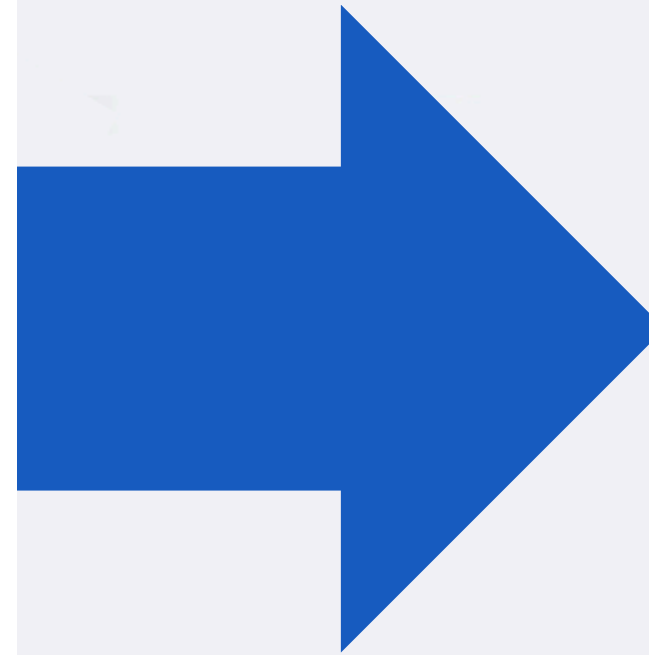


## Let's start with a question

What if we wanna to provide Escaply as a SAAS product for multiple schools and institutions?

But there is a catch, They asks as to keep there data to be separate from one other.

# Our current approach





# What is a Single-tenant?

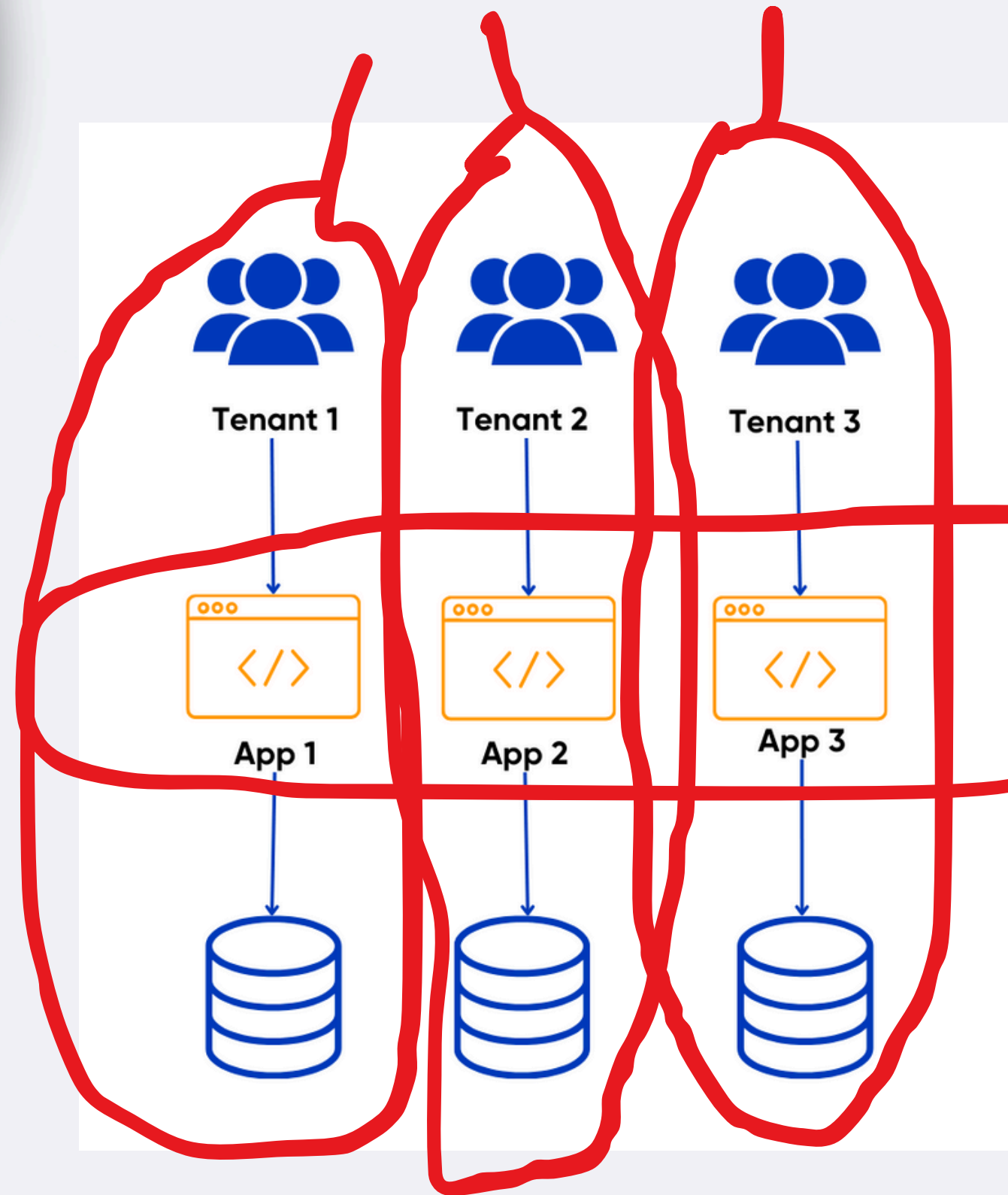
A Single-tenant application is an application that each tenant receives dedicated computing, network, and storage resources.

Every environment is developed and managed separately.

In essence, this option does not allow for any sharing.

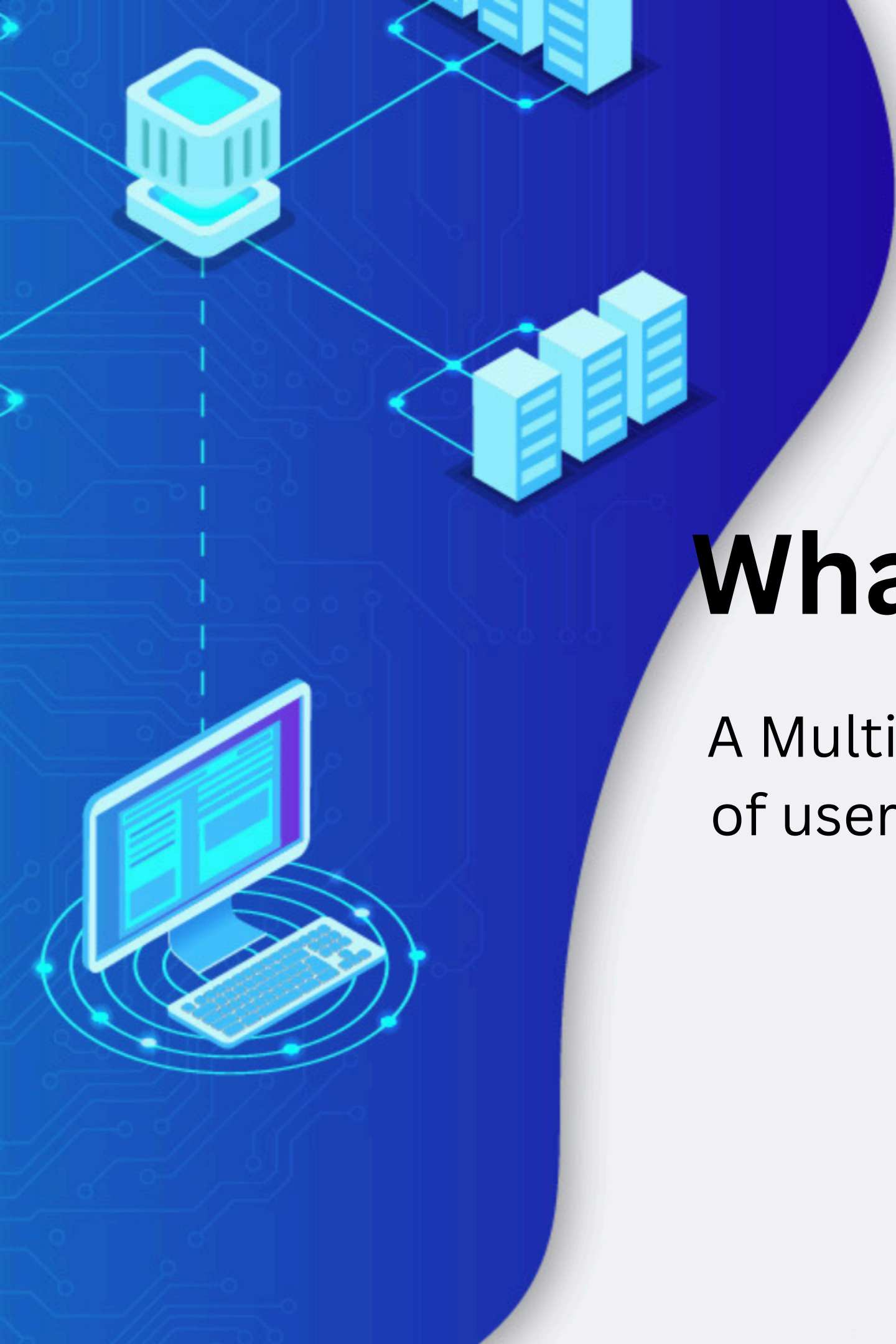


Each of these instances needs its own overhead



*This resource is going to be wasted whether the assigned tenant use it or not.*

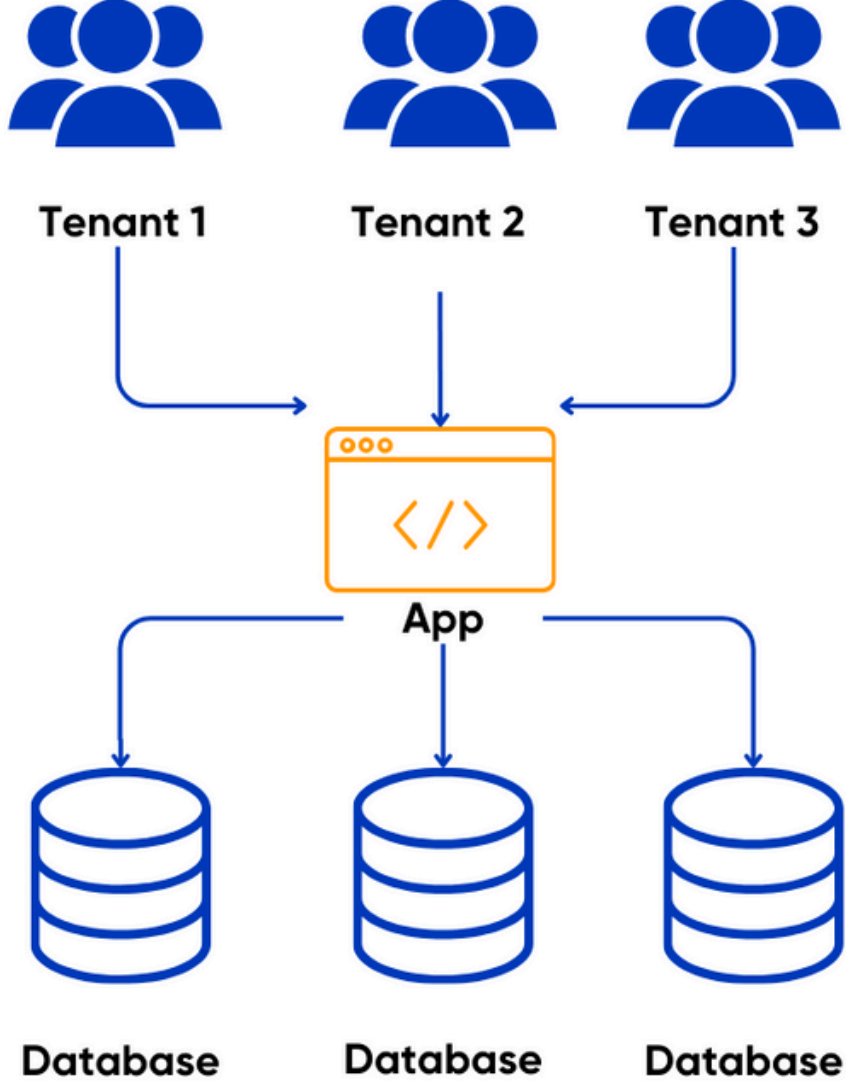
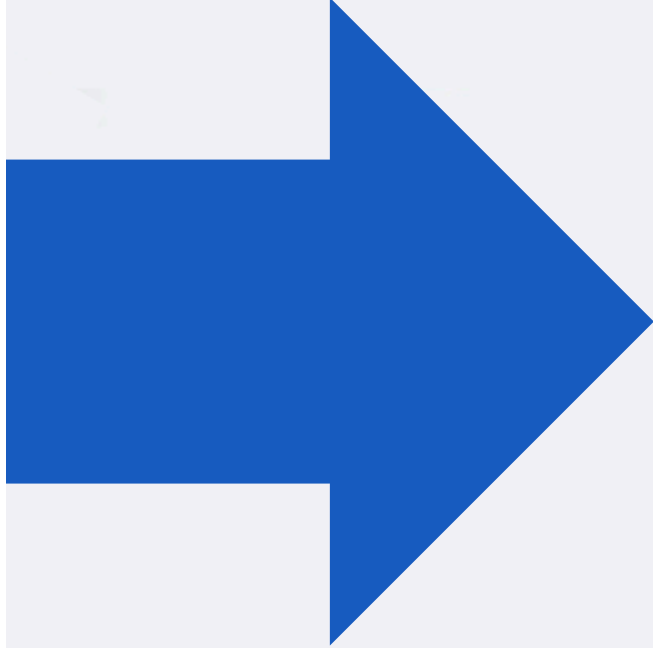
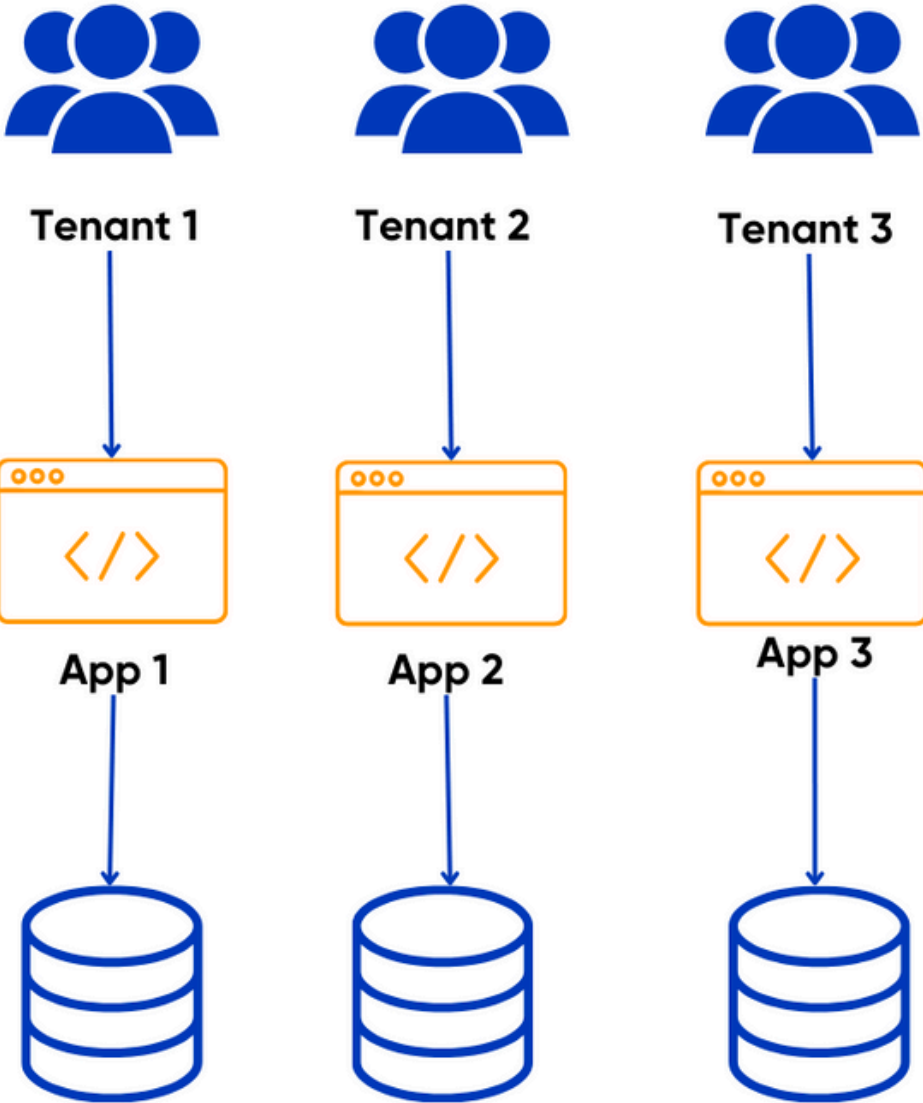
Rolling updates and fixing issues will be very hard because we need to update it everywhere.



# What is a Multi-tenant App?

A Multi-tenant application is customized for every group of users (so-called tenants) while the entire architecture and core functionality remain the same.

# The Best Approach





# **What are the Pros and Cons Multi-tenant App?**







# Pros

- Scalability
- Cost Efficiency
- Simplified Management
- Faster Time to Market
- Easier Collaboration
- Smoother DEVOPS and CICD pipe line



# Cons

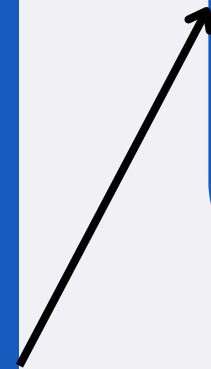
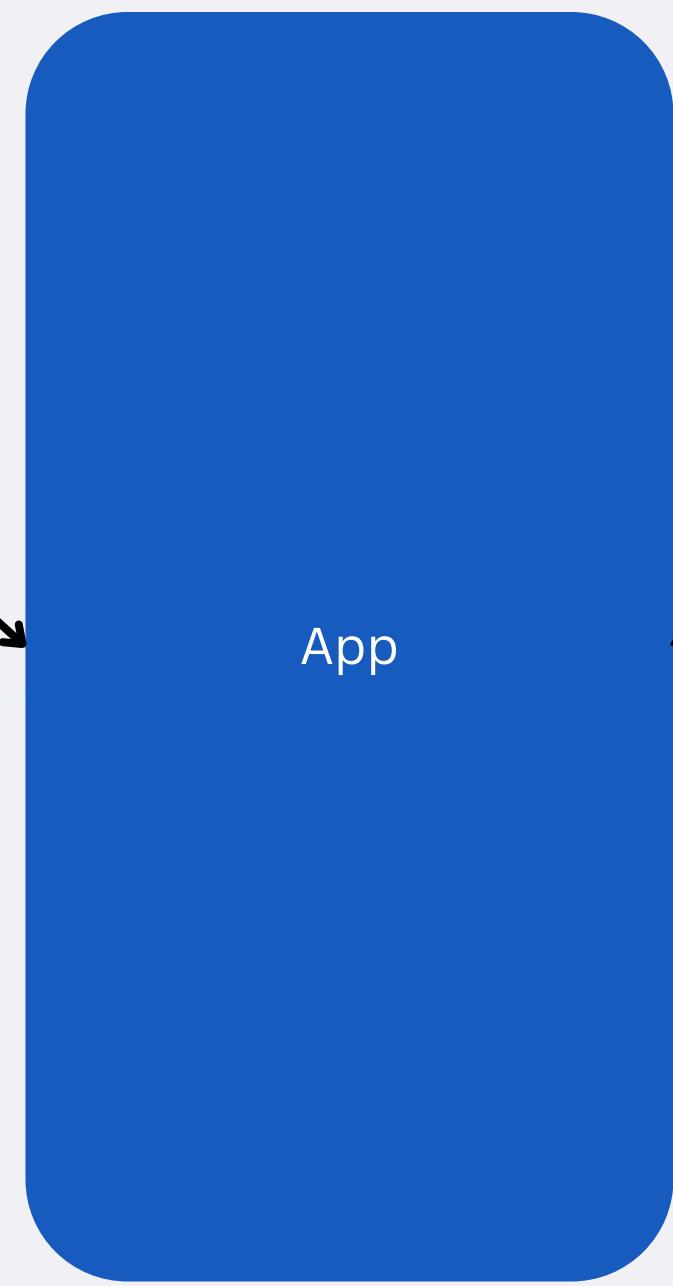
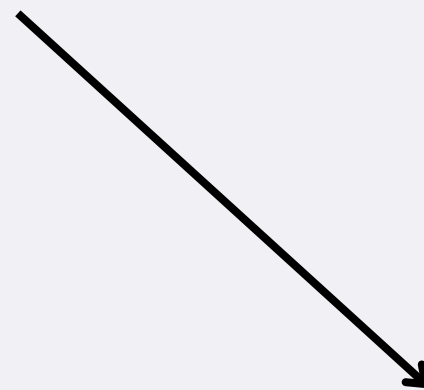
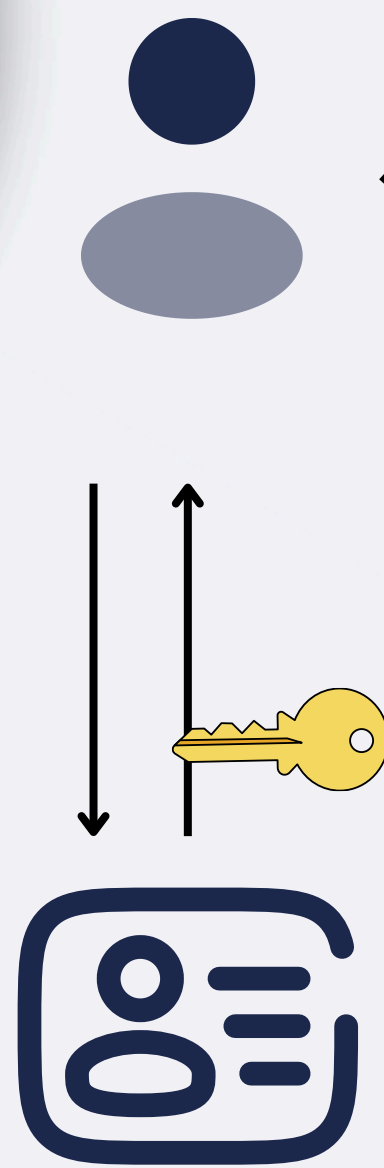
Data Security and Privacy  
Customization Limitations  
Performance Concerns  
Regulatory Compliance  
Dependency Risks

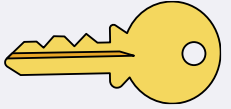




**How does it works?**





 tenant configuration and authentication strategy.



**Thanks for your time**

**終わり**