RÉPUBLIQUE FRANÇAISE
Liberté
Égalité
Fraternité

DIRECTION GÉNÉRALE DES FINANCES PUBLIQUES

SharedAgenda

Votre agenda dans le Cloud!

Introduction

Problématique

Introduction

Problématique

- Stockage distant

Introduction

Problématique

- Stockage distant
- Accéder partout

Introduction

Problématique

- Stockage distant
- Accéder partout
- Collaborer

Introduction

Solution

Introduction

Solution

- Un Agenda centralisé

Introduction

Solution

- Un Agenda centralisé
- Accessible partout avec une connexion internet

Introduction

Solution

- Un Agenda centralisé
- Accessible partout avec une connexion internet
- Sécurisé

Introduction

Architecture Serveur

[1]All SVGs are under CC0 from SVGRepo unless stated otherwise

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Introduction

Architecture Client

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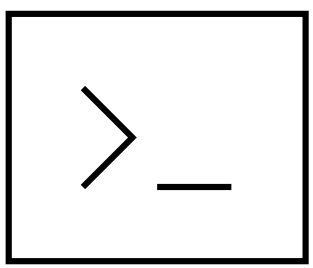
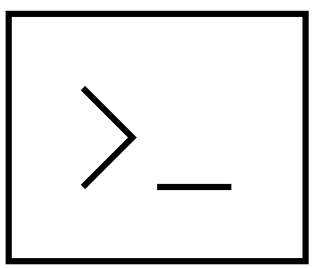
Architecture Client

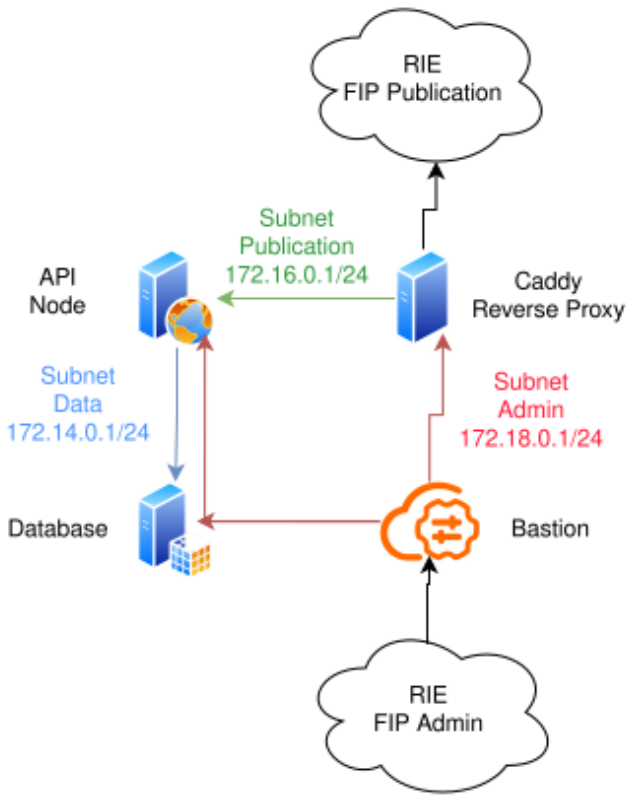


Introduction

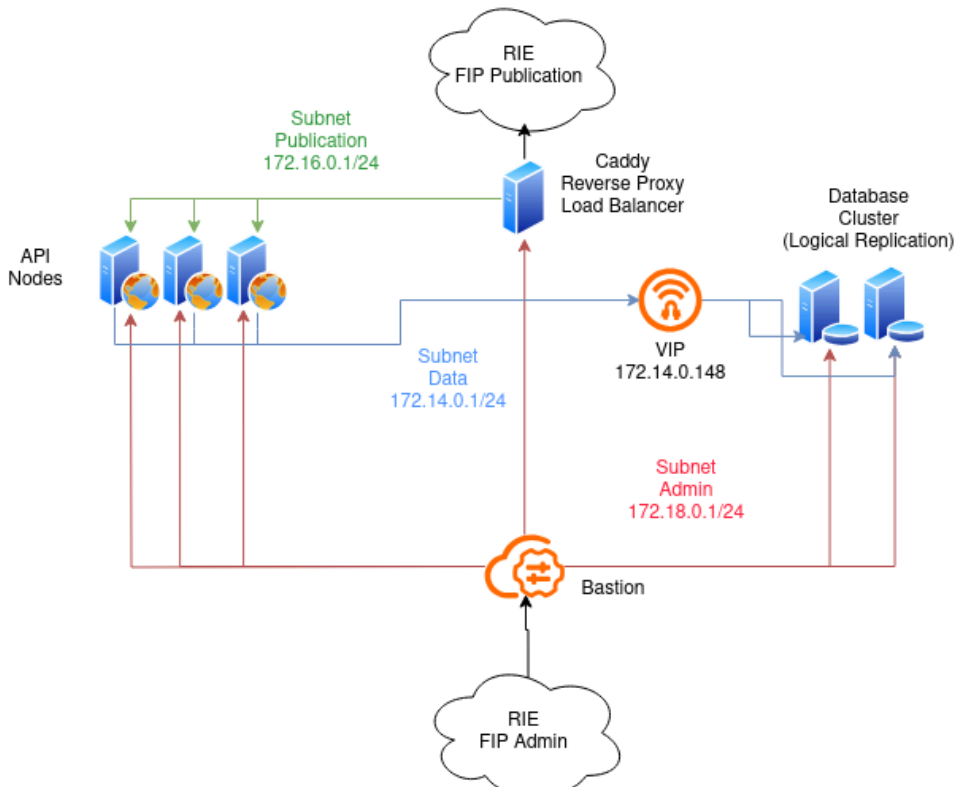
Architecture Client



Infrastructure (V1)


RIE
FIP Publication
Subnet
Publication
172.16.0.1/24
API
Node
Caddy
Reverse Proxy
Subnet
Data
172.14.0.1/24
Subnet
Admin
172.18.0.1/24
Database
Bastion
RIE
FIP Admin

Infrastructure (V2)


RIE
FIP Publication
Subnet
Publication
172.16.0.1/24
Caddy
Reverse Proxy
Load Balancer
Database
Cluster
(Logical Replication)
API
Nodes
VIP
172.14.0.148
Subnet
Data
172.14.0.1/24
Subnet
Admin
172.18.0.1/24
Bastion
RIE
FIP Admin

Serveur

Choix Techniques

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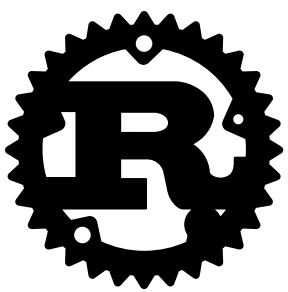
Serveur

Choix Techniques



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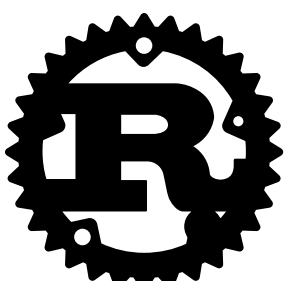
Serveur

Choix Techniques



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Serveur

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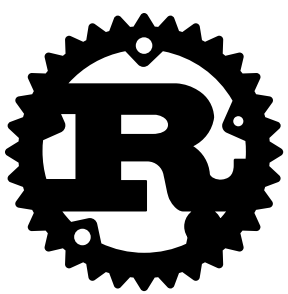

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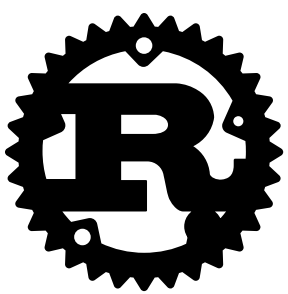
Serveur

Choix Techniques



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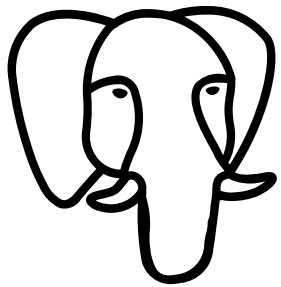

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Serveur

Implémentation

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Implémentation

- Transactions BDD

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Implémentation

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- API Asynchrone

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Implémentation

- Transactions BDD
- API Asynchrone
- Codes de retour (ex: 200 OK, 401 Token Expired)

Serveur

Implémentation

- Transactions BDD
- API Asynchrone
- Codes de retour (ex: 200 OK, 401 Token Expired)
- TTL des Tokens: 24h

Serveur

- Fonctions génériques

```rust
pub async fn query<T: QueriedData>(self, sql: &str, args: &[&(dyn ToSql + Sync)])
-> Vec<T> {
    let mut res: Vec<T> = vec![];
    match self.connection.query(sql, args).await {
        Ok(rows) => {
            for row in rows {
                /*[...]*/
                res.push(T::create_from_row(&row))
```

Client (CLI/REPL)

Implémentation

Client (CLI/REPL)

Implémentation

- Rust

Client (CLI/REPL)

Implémentation

- Rust
- Appel API

Client (CLI/REPL)

- Programmation par contrat

```rust
pub trait Answer {
    fn code(&self) -> i32;
    fn answer(&self) -> String;
    fn process(&mut self);
}
```

Client (CLI/REPL)

Démonstration