



Application existante GUI/Appserver → Application Web

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Il était une fois dans le monde merveilleux OpenEdge un client avec une application N-TIER. Il avait un rêve....



Le point de départ des discussions

- Stratégie d'optimisation des infrastructures
 - Direction Web
 - Eviter des serveurs TSE → juste pour exposer des applications
 - Maintenance plus centralisée des applications
- Sécurisation
 - Utilisation de sécurisation de type OAuth2 via Okta

L'Objectif de Progress

“Dire ce qu’on veut Faire”

“Faire ce qu’on a Dit”

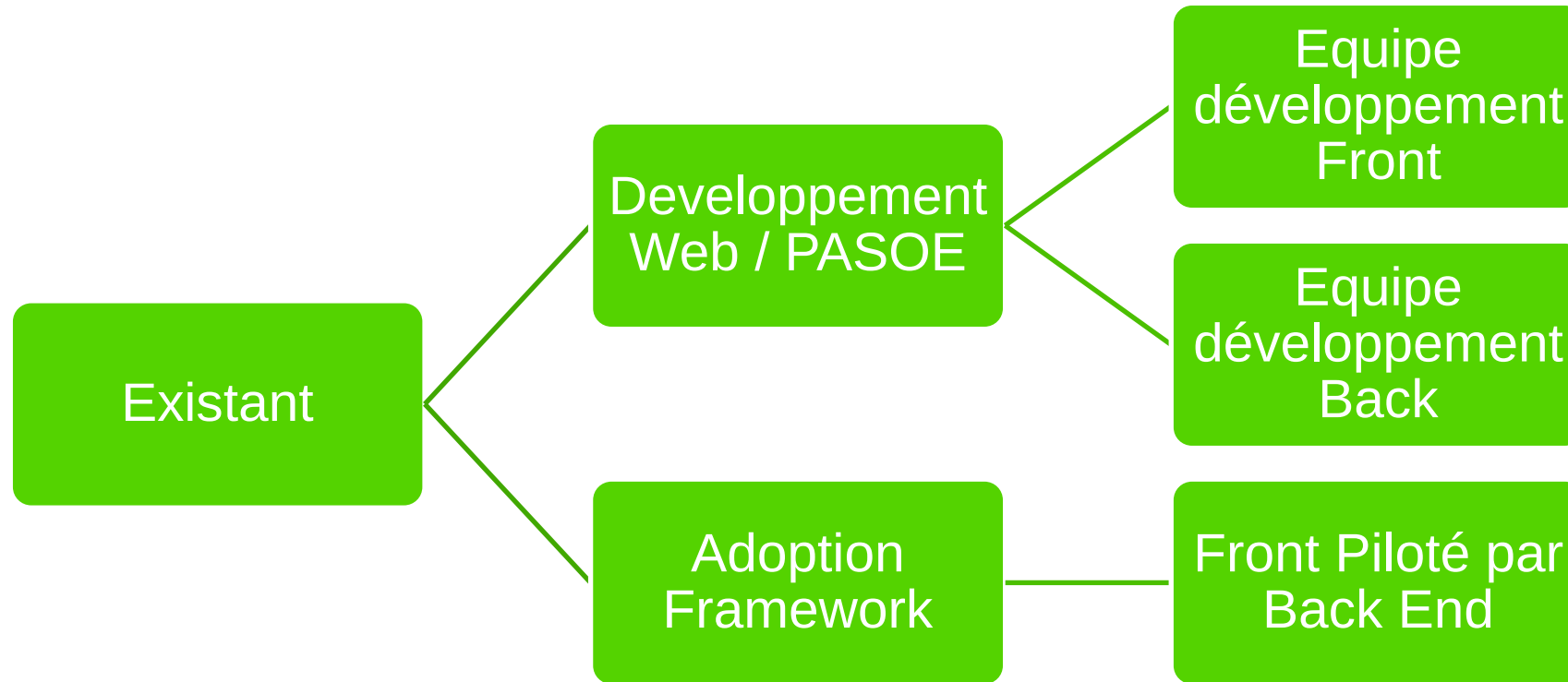
Feuille de Route (macroscopique)

- Application existante
 - GUI desktop
 - Appserver
- Migration de Appserver vers PASOE
 - Permet de mettre en place l'infrastructure commune C/S N-Tier et Web
 - Début mise en oeuvre IHM Web

Probable Phase d'Assessment pour valider des Choix



Choix possibles



- Front

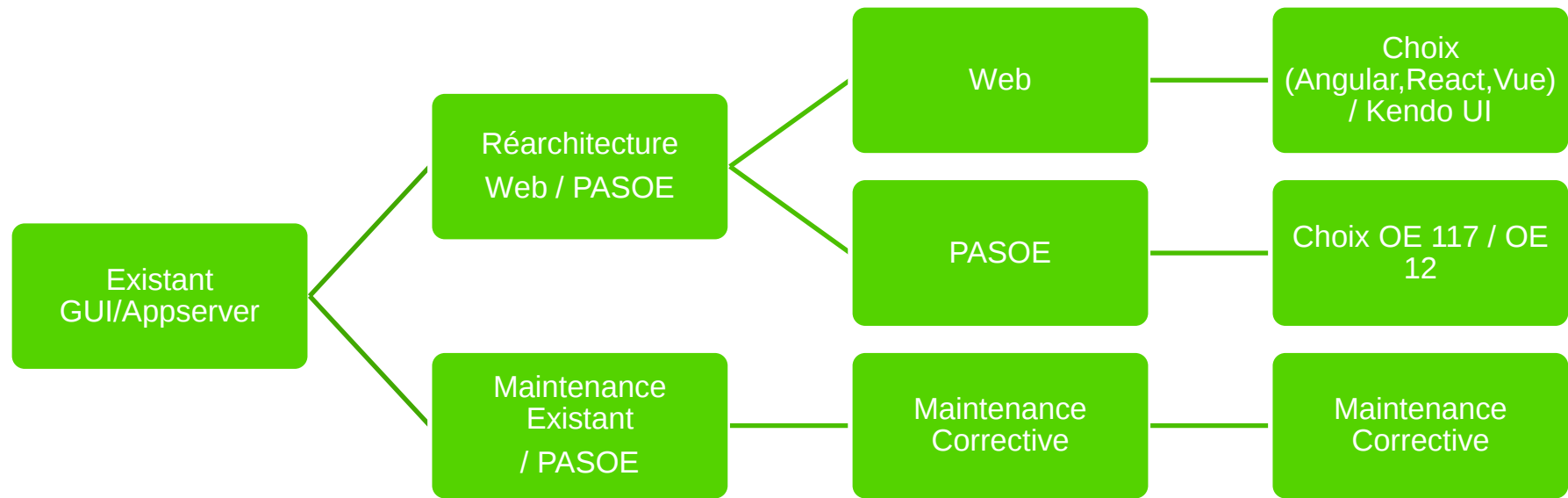
- Externaliser

- Back

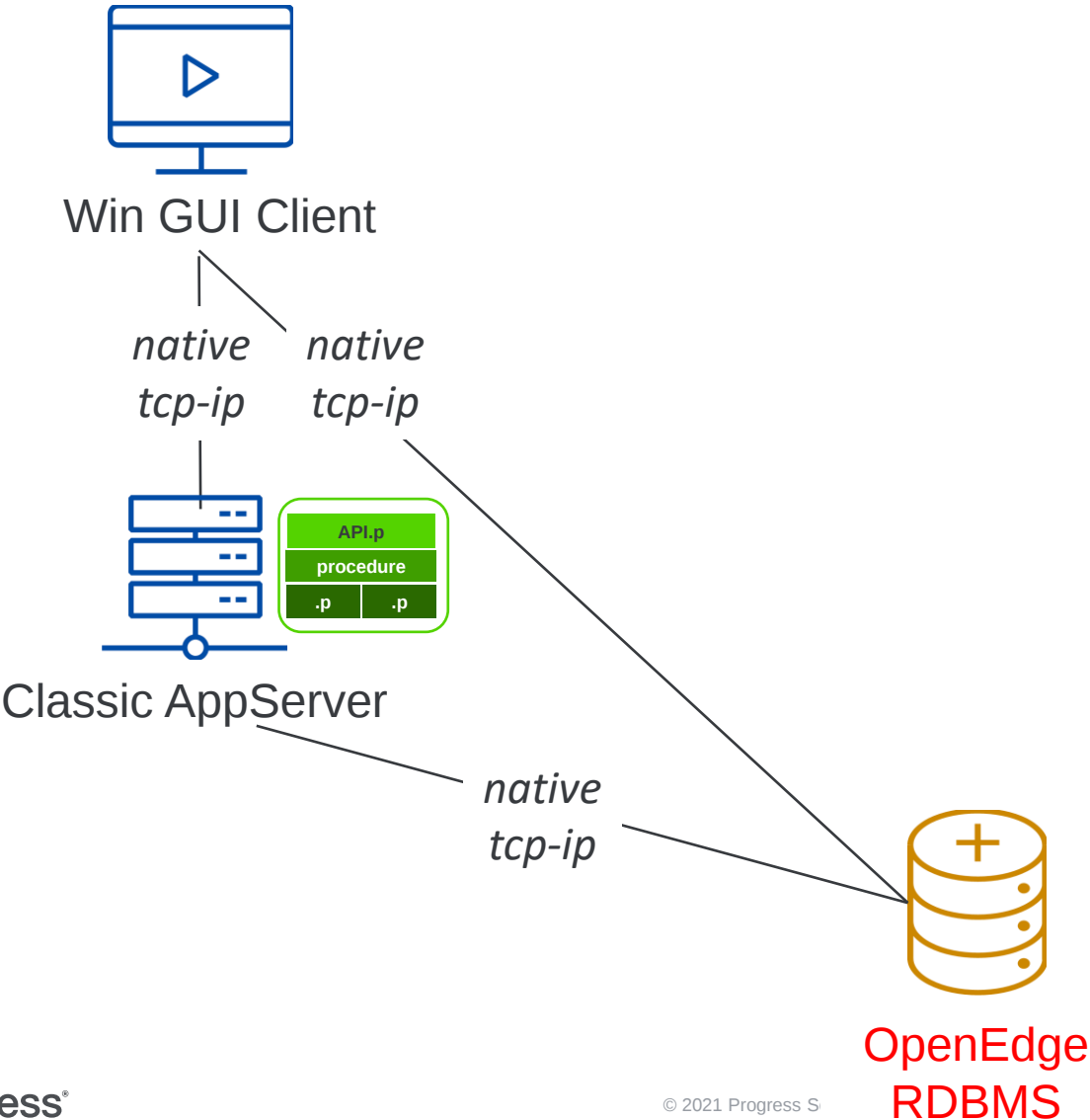
- Expertise interne
 - Expertise PASOE et dev REST à mettre en oeuvre

- A terme : maintenance des 2

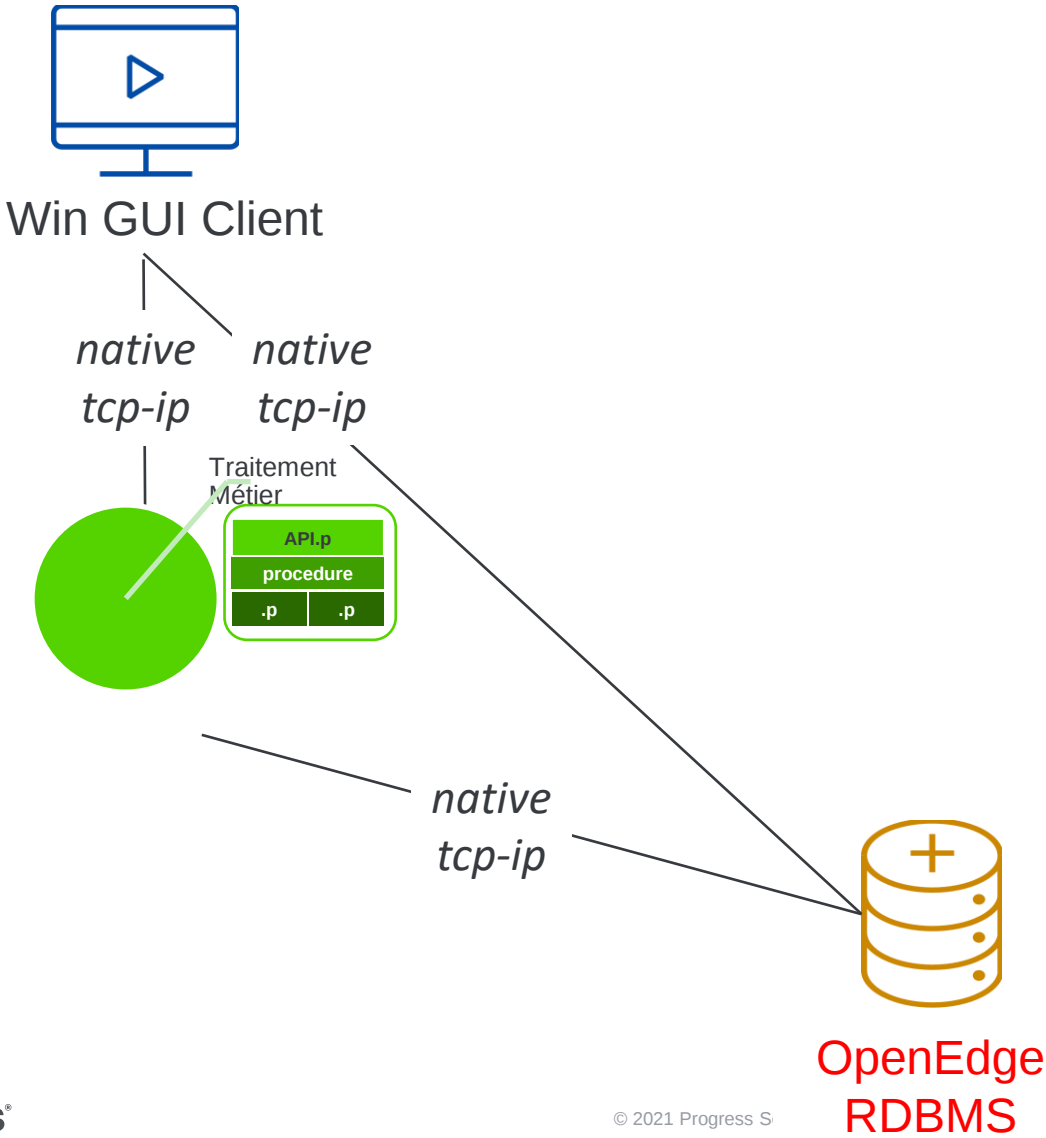
Evolution



Application existante : OE 11

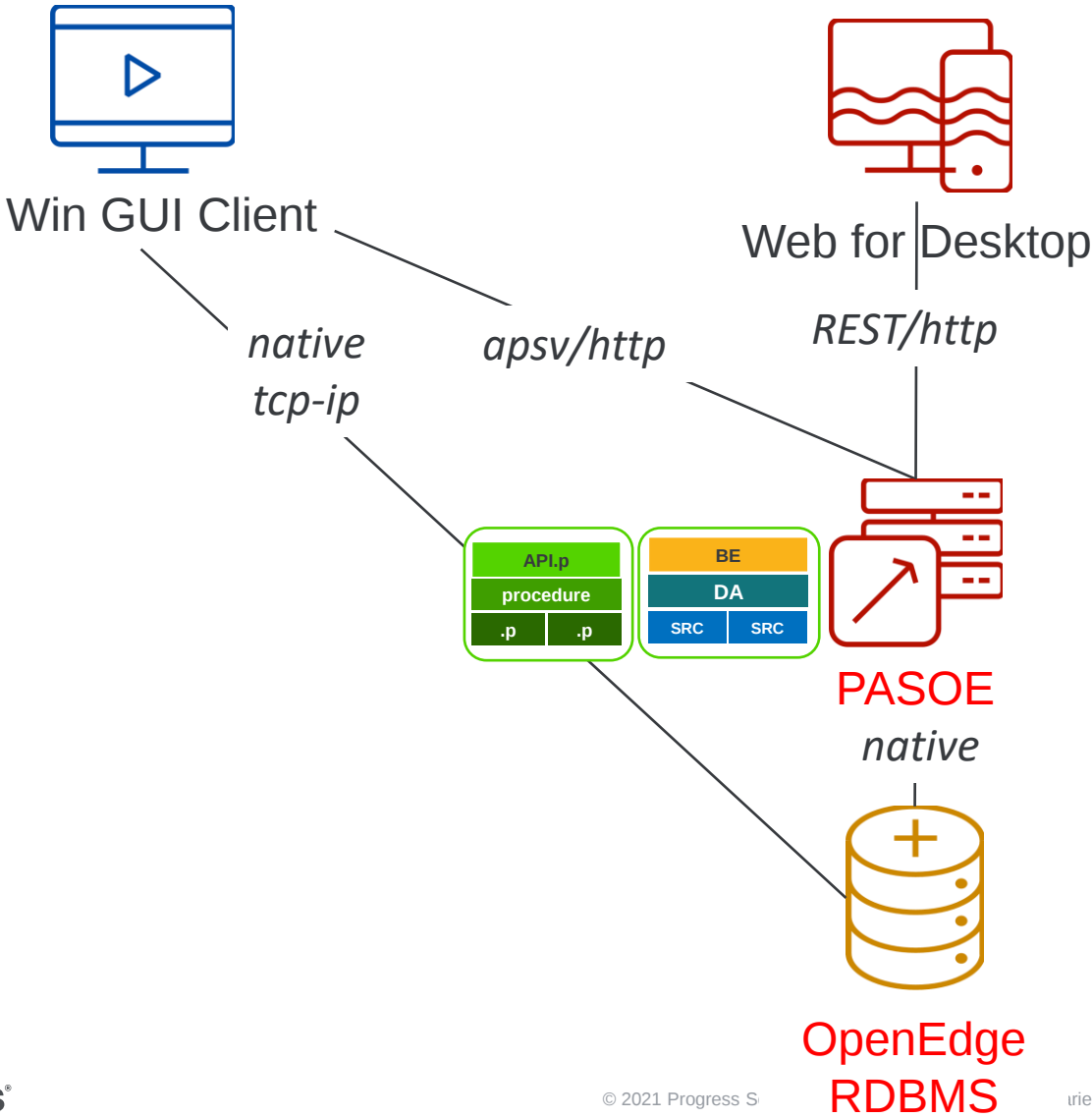


Application existante : OE 11

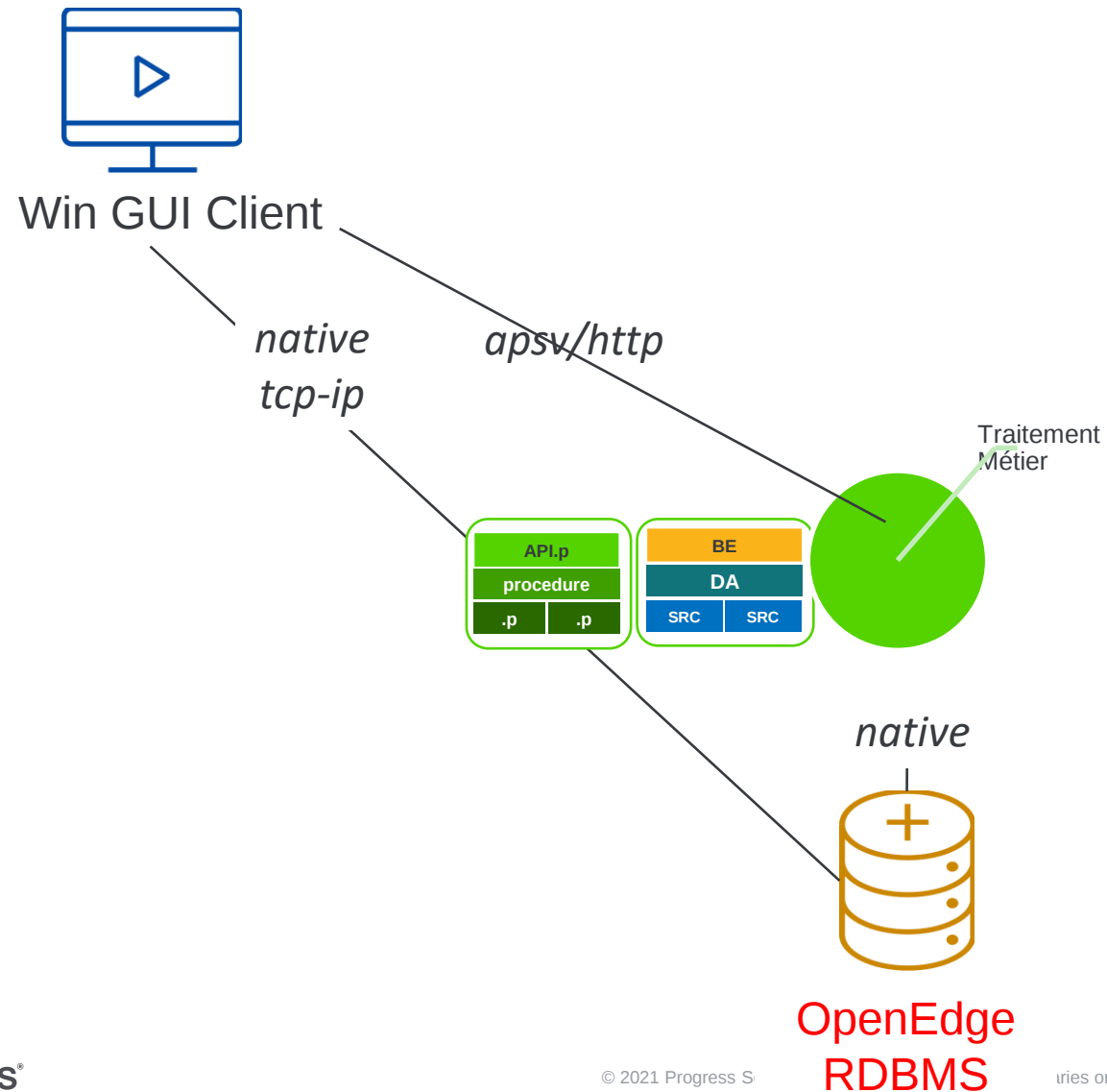


- Vision de modules Web
- Architecture hybride
- 40% non appserver à migrer sur PASOE
- L'application existante est déjà découpée en module
 - Donc on peut moderniser par module
- Pas de compétence Web en interne
- Certains standards définis en interne
 - Exemple : Chrome par défaut

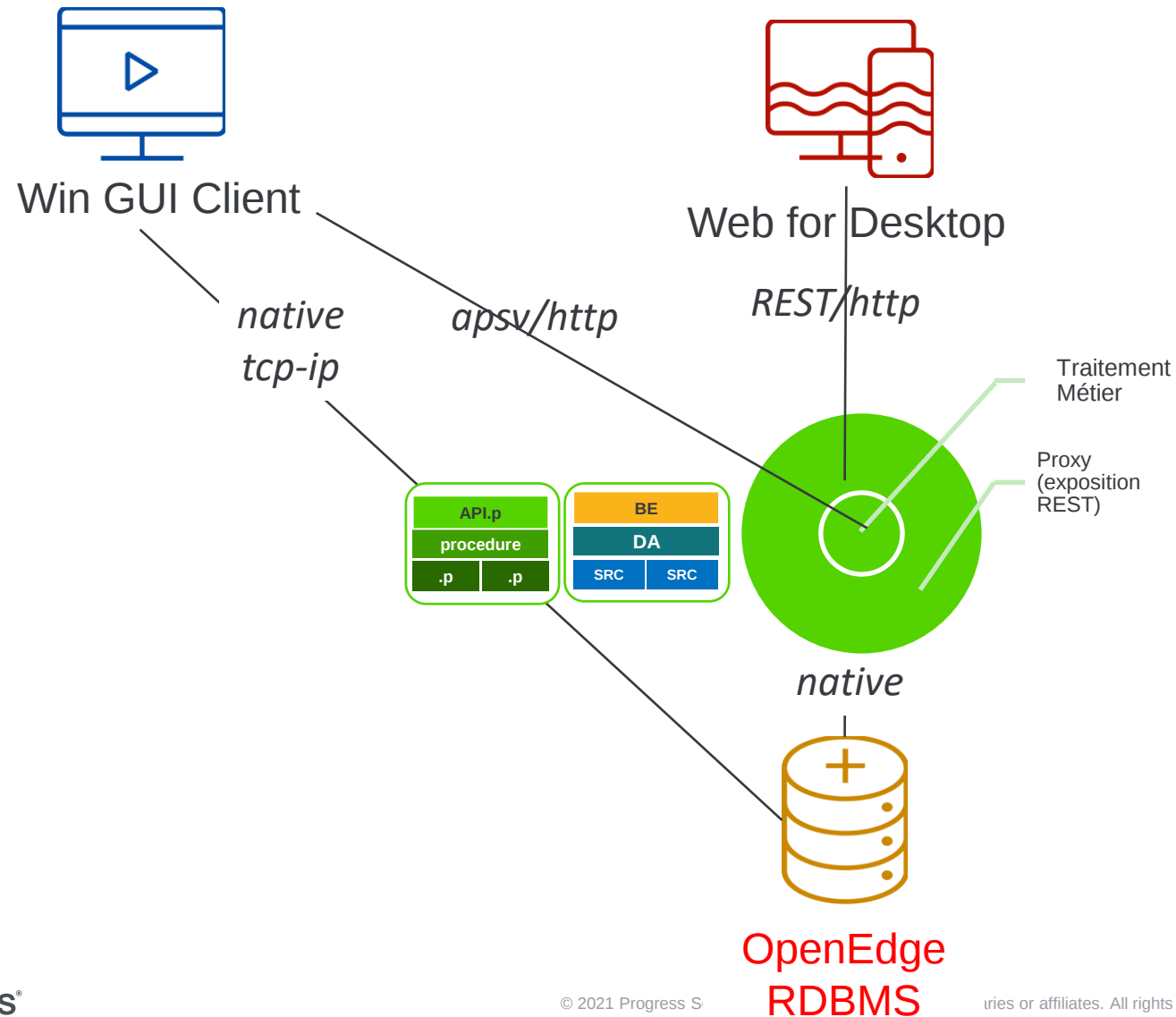
Application GUI / PASOE / WEB : Cible intermédiaire



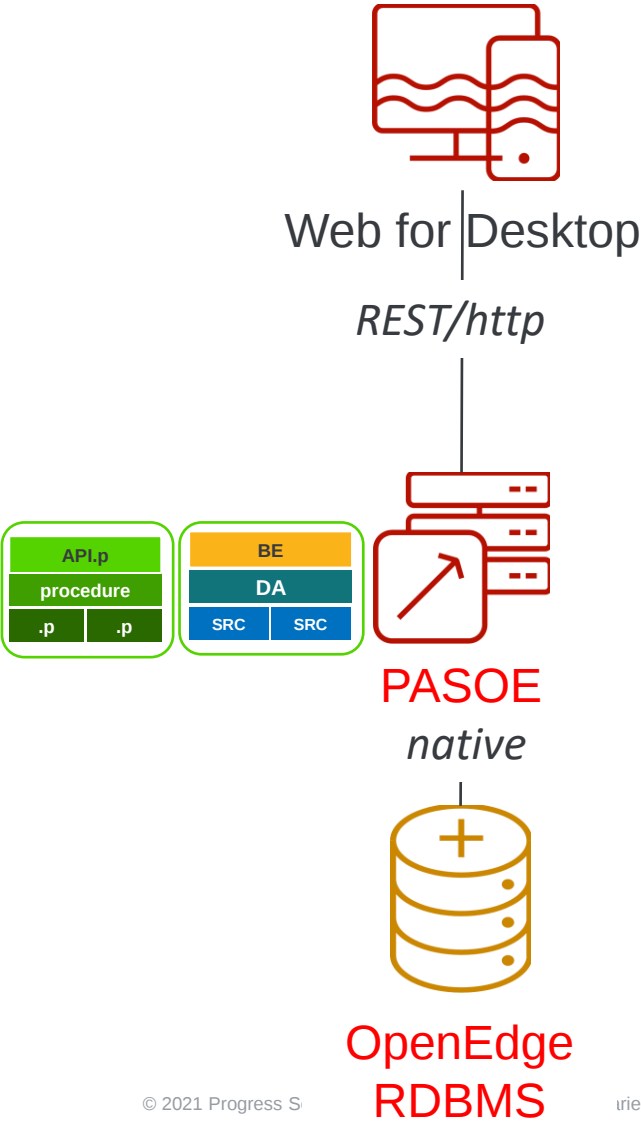
Application existant GUI PASOE



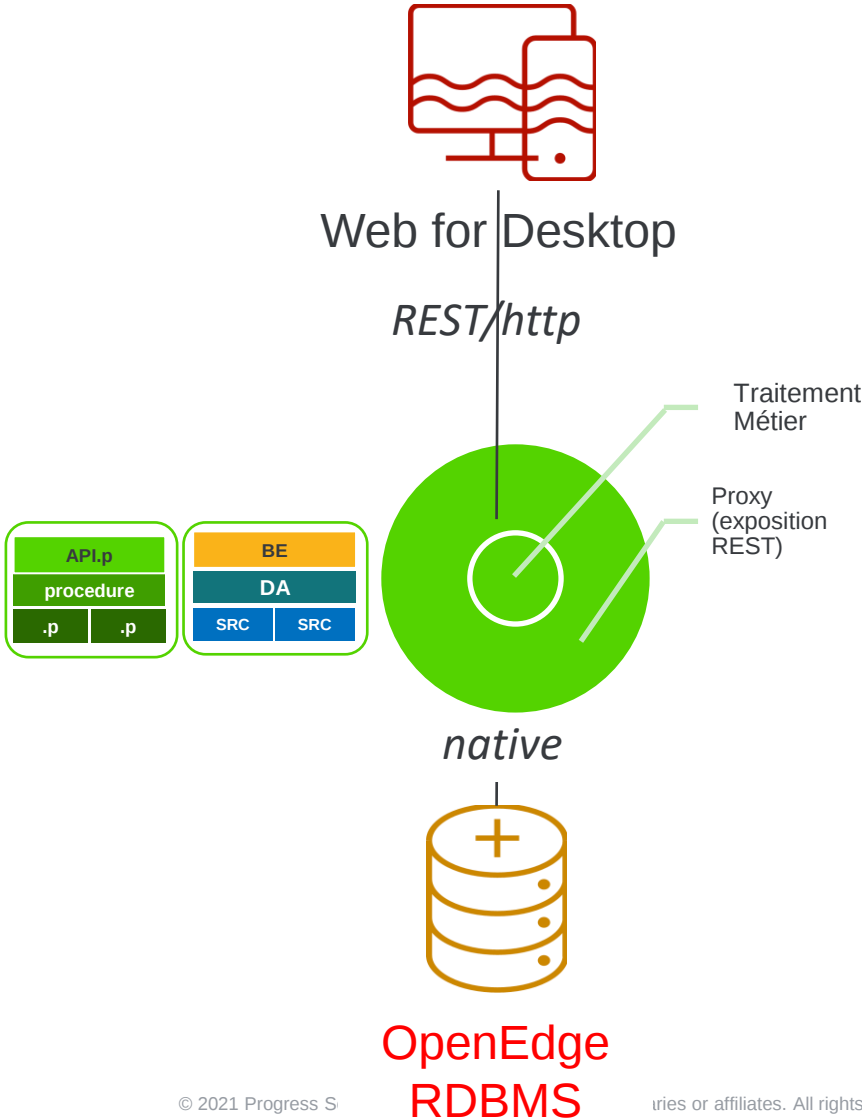
Application existante GUI / PASOE / WEB



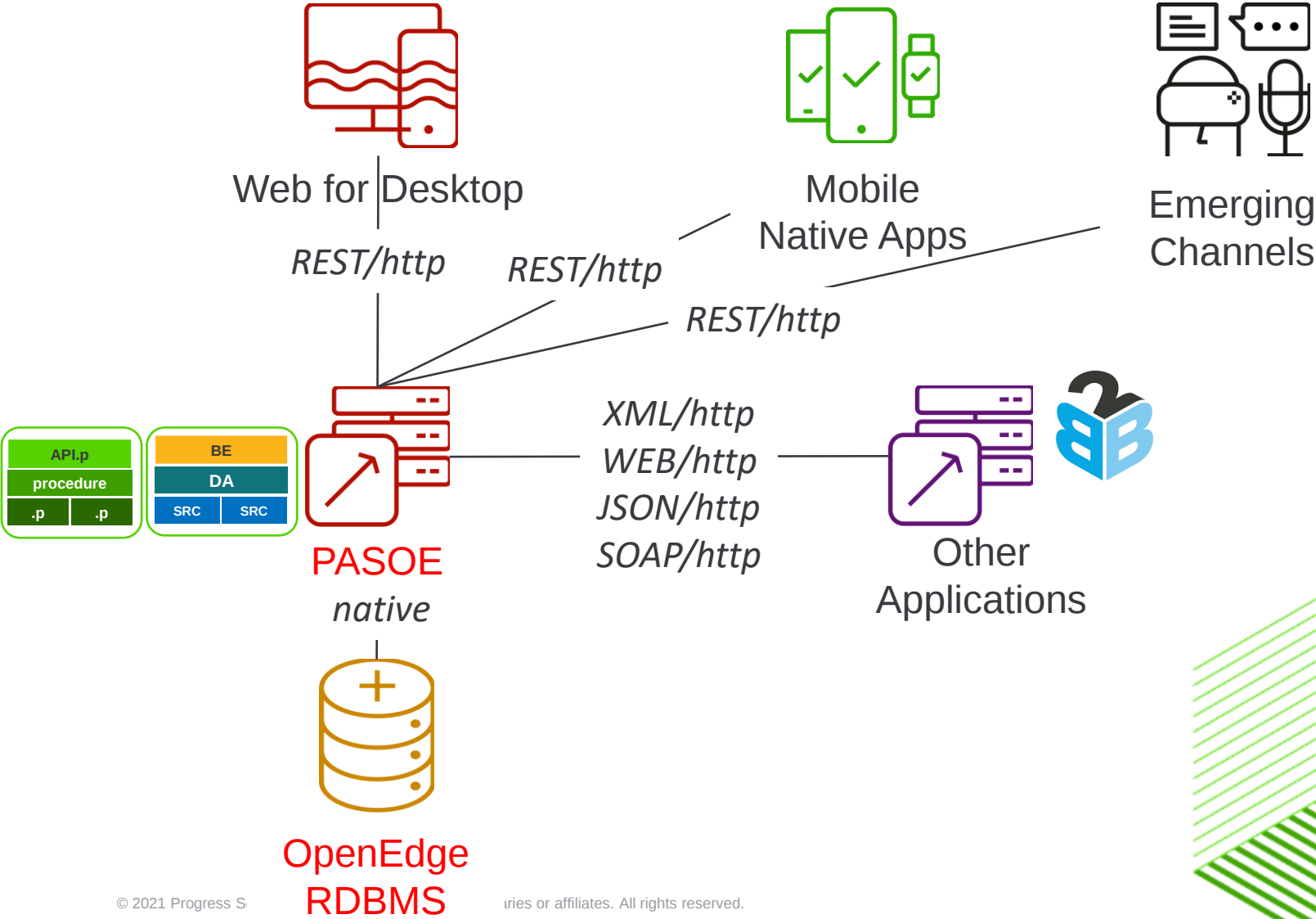
Application cible PASOE / WEB



Application GUI / PASOE / WEB : cible à terme



Application et nouvelles possibilités PASOE / WEB / Etendu



Centralisation

- Chaque site a sa propre base
- A terme : débat sur niveau de mutualisation ➔ ce qu'il faut avoir en cible
 - Base Multitenant en central ?
 - Consolidation par région par exemple
 - PASOE central pouvant accéder à plusieurs base
 - ABL App ➔ propre propath , connexion base
 - Load balancing ou Tolérance de panne en central
 - Utilisation de PRO2 pour gérer les montées de versions > PRO2 6.2

PASOE Webapp (Apache Tomcat)

- Déployer les applications Web Angular dans le serveur PASOE
- Automatiser les processus de déploiement
- Mettre en place des outils pour
 - Tester les applications : ABLUNIT
 - Intégrer dans une architecture CI/CD
- PASOE et oAuth2
- Authentication MFA : Okta

Mutualisation

- En mode “hébergé”
 - Etudier l’optimisation/mutualisation des instances PASOE
- ABLApp et AblWebapp
- What are the steps to create multiple Applications inside one PAS for OpenEdge instance?
 - <https://knowledgebase.progress.com/articles/Knowledge/What-are-the-steps-to-create-multiple-Applications-inside-one-PAS-for-OpenEdge-instance>

Stop

 **Progress Application Server ShutDown** **First Alert:** Mar 2, 2021 4:39:08 PM **Last Alert:** Mar 2, 2021 4:39:08 PM **Count:** 1 
Progress Application Server shut down. Adapter: oepas40 (18452)

Clear all alerts

Instance Control

Monitoring Plans

Configuration

Log File

Catalina Log File Monitor

Catalina Log File Viewer

Host Manager Log File Monitor

Host Manager Log File Viewer

Charts/Graphs

ABL APPLICATIONS | WEB APPLICATIONS | WEB APP SERVICES

Manage ABL applications

Deploy

Undeploy

☐

ABL Application Name

Web Application Name

☐

ABLApp1

OEABL1

OEABL2

☐

oepas40

Projetoepas40

ROOT

☐

ABLApp2

OEABL3

OEABL4

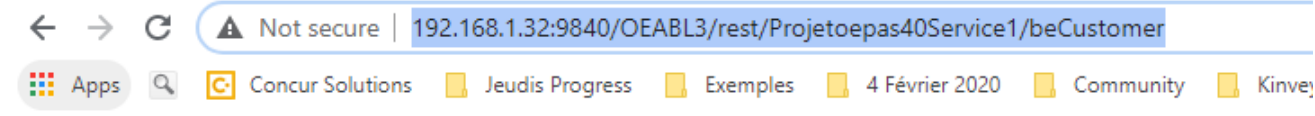
<http://192.168.1.32:9840/OEABL1/rest/Projetoepas40Service1/beCustomer>

← → ↻ ⚠ Not secure | 192.168.1.32:9840/OEABL1/rest/Projetoepas40Service1/beCustomer

Apps 🔍 Concur Solutions Jeudis Progress Exemples 4 Février 2020 Community Ki

```
{
  - dsCustomer: {
    prods:hasChanges: true,
    - ttCustomer: [
      - {
        CustNum: 1,
        Country: "USA",
        Name: "Lift tours aaaaa",
        Address: "276 North Drive",
        Address2: "test5",
        City: "Burlington1",
        State: "MA",
        PostalCode: "01730",
        Contact: "Gloria Shepley",
        Phone: "(617) 450-0086",
        SalesRep: "HXM",
        CreditLimit: 50000,
        Balance: 903.64,
        Terms: "Net30",
        Discount: 35,
        Comments: "This customer is on credit hold.",
        Fax: "",
        EmailAddress: ""
      },
      - {
        CustNum: 2,
        Country: "Finland",
        Name: "Urpon Frisbee ",
        Address: "Rattipolku 3",
        Address2: "",
        City: "Oslo4",
        State: "Uusima",
        PostalCode: "45321",
        Contact: "Urpo Leppakoski",
        Phone: "(603) 532 5471",
        SalesRep: "DKP",
        CreditLimit: 27608,
        Balance: 437.63,
        Terms: "Net30",
        Discount: 35,
        Comments: "Ship all products 2nd Day Air.",
        Fax: "",
        EmailAddress: ""
      }
    ]
  }
}
```

<http://192.168.1.32:9840/OEABL3/rest/Projetoepas40Service1/beCustomer>



```
{
  - dsCustomer: {
    prods:hasChanges: true,
    - ttCustomer: [
      - {
        CustNum: 1,
        Country: "USA",
        Name: "Lift Tours",
        Address: "276 North Drive",
        Address2: "",
        City: "Burlington",
        State: "MA",
        PostalCode: "01730",
        Contact: "Gloria Shepley",
        Phone: "(617) 450-0086",
        SalesRep: "HXM",
        CreditLimit: 66700,
        Balance: 903.64,
        Terms: "Net30",
        Discount: 35,
        Comments: "This customer is on credit hold.",
        Fax: "",
        EmailAddress: ""
      },
      - {
        CustNum: 2,
        Country: "Finland",
        Name: "Urpon Frisbee",
        Address: "Rattipolku 3",
        Address2: "",
        City: "Oslo",
        State: "Uusima",
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        SalesRep: "DKP",
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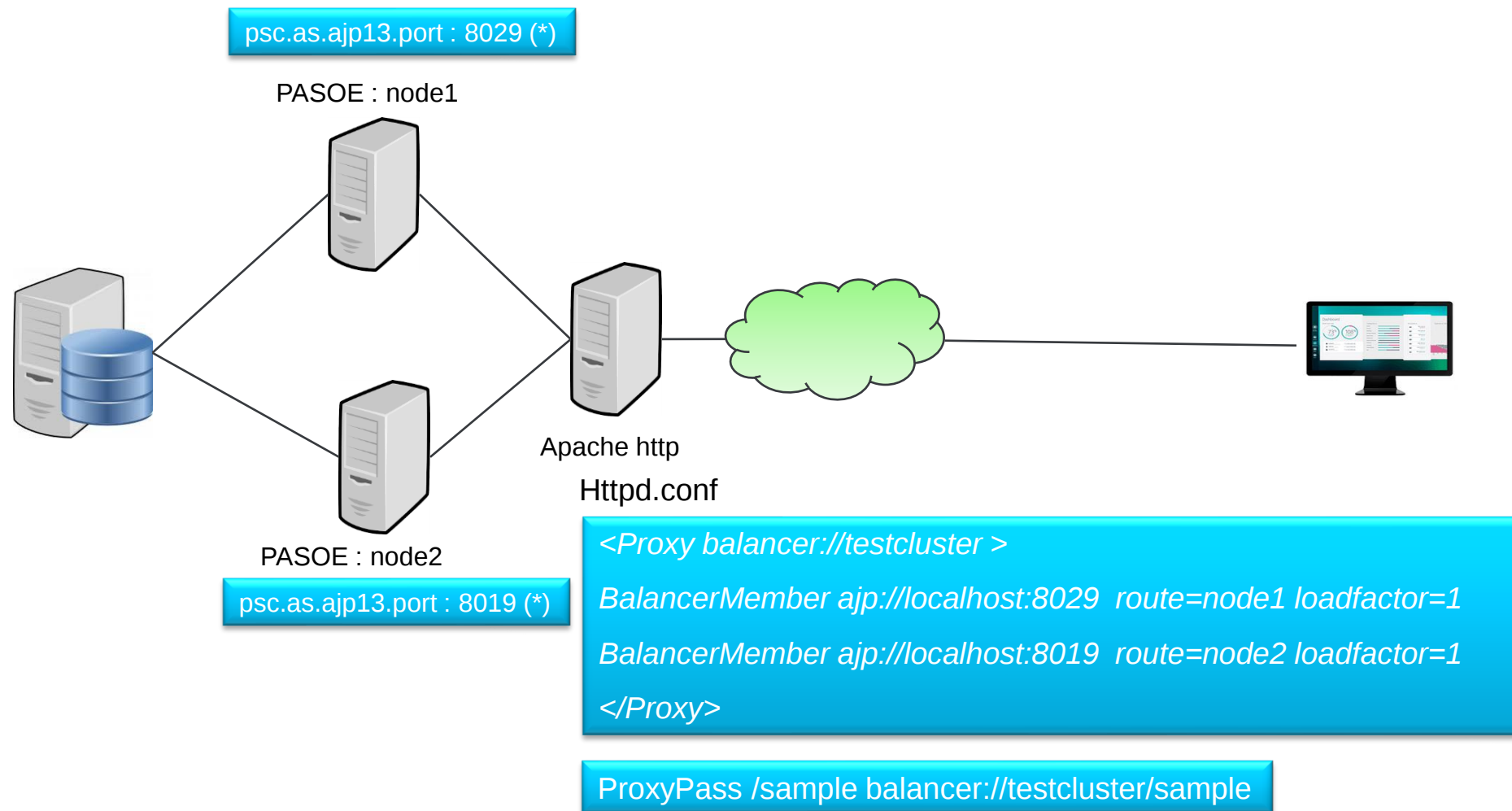
PASOE Load Balancing



PASOE Load Balancing

- All standard web server load balancing should work with PASOE
- We have tested several and documented them
- Apache Load Balancing
- Tomcat Load Balancing
- AWS ELB – Amazon Web Services Elastic Load Balancing

PASOE: configuration Apache http Server and PASOE



Tcman feature AJP13=on (* to run on each node)

Formations à prévoir

- Installation , gestion PASOE
- Développement REST , Webhandler
 - Revue OO
- Déploiement

- Advanced DB
 - Multitenant
 - Replication

