AUMERIAL

NTi

The future of the IBM i is written in .NET

IBM Silver Partner

Tools for every need

Enjoy the full benefits of .NET with NTi and its extensions:

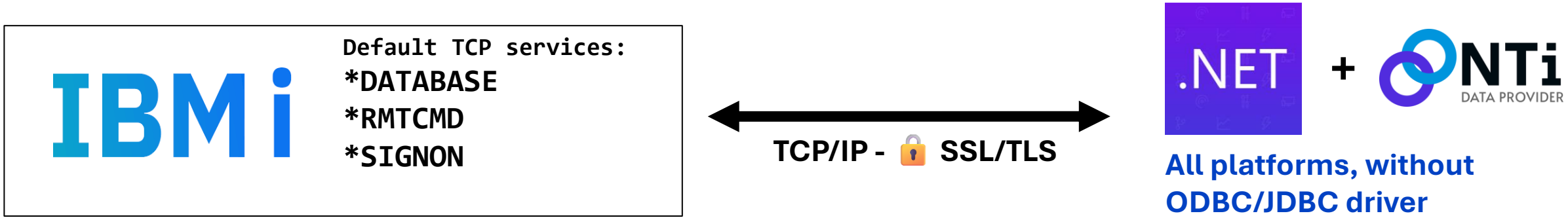
EF Core 8 for NTi
The reference ORM for your IBM i

NTi Data Provider
The native, lightweight, standardized .NET connector

NTi Toolbox
IBM i-specific features

NTi Data Provider

NTi Data Provider connector provides native, driverless access to IBM i



IBM i

Default TCP services:
*DATABASE
*RMTCMD
*SIGNON

TCP/IP - 🔒 SSL/TLS

.NET + NTi DATA PROVIDER

All platforms, without ODBC/JDBC driver

| ĂĎ ėđ ỷì źĂ

- No client-side driver, no IBM i installation required
- Platform and version agnostic
- DB2 for i access, program calls, CL, APIs
- TCP/IP connection with SSL/TLS support
- Efficient job management QZDASOINIT/QZRCSRVS
- No dependence on third-party solutions
- Standardized ADO.NET

NTi Data Provider

Applications using NTi are truly cross-platform and cloud-native

A single development

.NET + NTi DATA PROVIDER

Multi-plateform

docker, OPENSHIFT, Android, mac OS, Raspberry Pi, Windows, Linux

Multi-architectures

intel. XEON, ARM, IBM Power

aws, Azure, Google Cloud

CSPs/MSPs

EF Core for NTi

EF Core offers total abstraction from the DB2 for i database, so you can develop new applications at lightning speed, whether you're starting **from scratch** or **from an existing database.**

Code First

Develop applications without worrying about the database: tables, columns and CRUDs are automatically generated without a single line of SQL.

DB First

From an existing database, automatically generate your application's data access layer and interface elements.

EF Core for NTi

Generate .NET entity models automatically from an existing database, and vice versa

DB2 for i

```
USERS
   - ID INTEGER GENERATED ALWAYS AS IDENTITY
   - NAME VARCHAR(256) NOT NULL
```

DB First ↓ ↑ Code First

.NET source code

```
Public class Users {
    [Key] public int Id {get; set;}
    public string Name {get; set;}
}
```

EF Core for NTi

Handle DB2 for i with C#, EF Core takes care of the data access layer:

- SQL generation
- Parametric queries
- Entity mapping

.NET source code

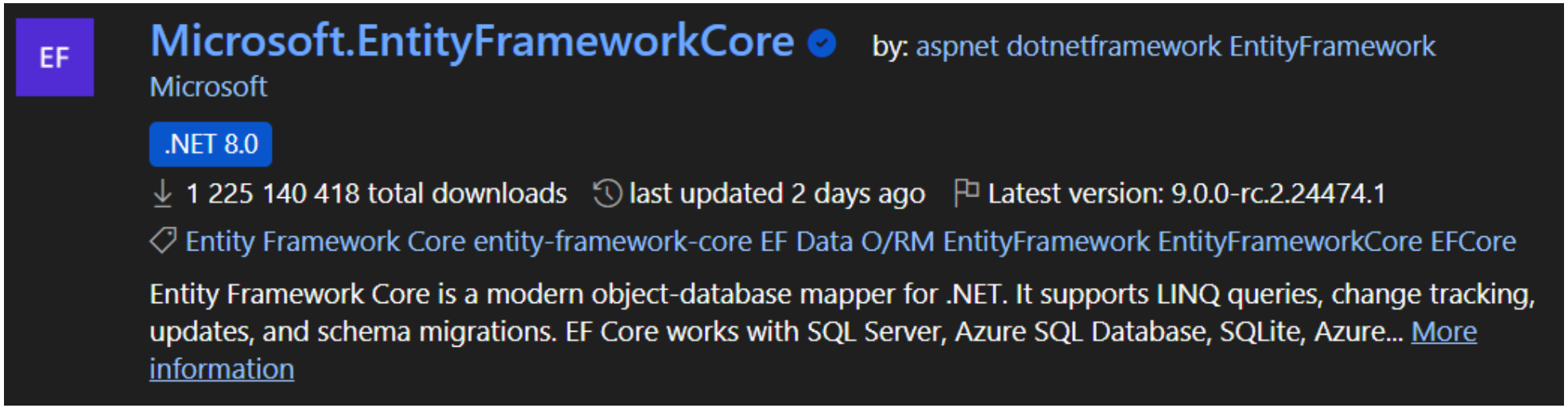
```C#
List<User> users = context.Users.Where(x ⇒ x.Name == "Smith");
```

Automatically generated SQL query

```SQL
SELECT * FROM USERS WHERE NAME == 'Smith'
```

EF Core for NTi

Entity Framework Core is standardized and **not specific to NTi**. It is used in the same way with Postgres, SQL server and Oracle. All .NET developers have mastered these techniques.



Toolbox NTi

IBM i-specific methods for administering your system and interacting with its specific resources.

In a single line of code, list spool files, execute a service program procedure and much more, thanks to the NTi Toolbox methods.

Example: list spools files

```C#
var spools = connection.ListSpooledFiles();
```

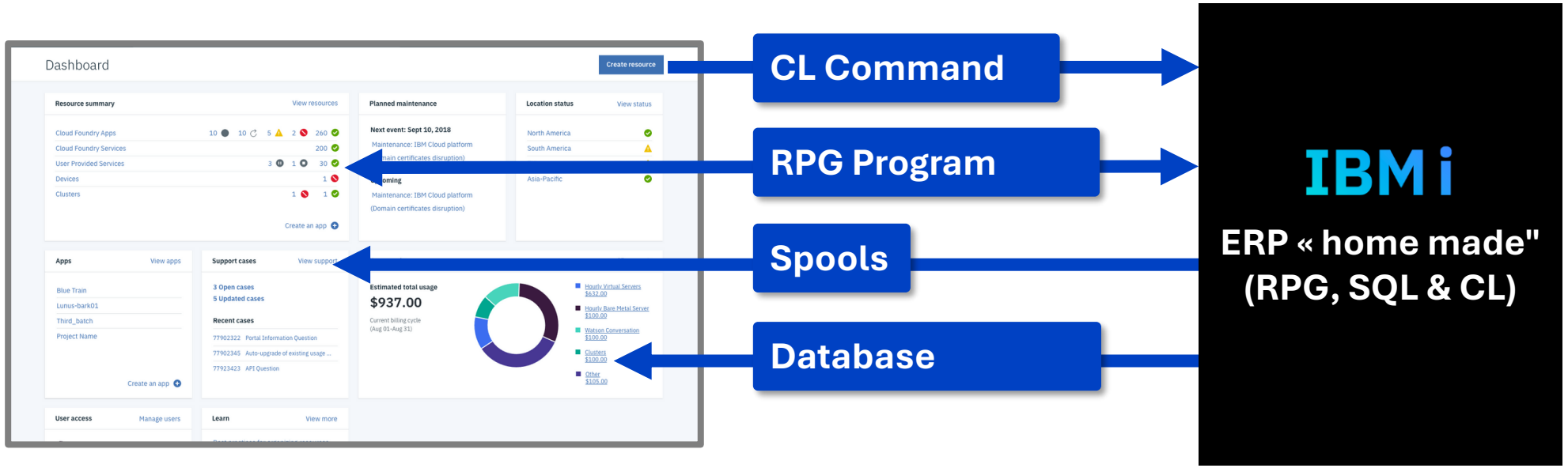
Evolve without risk

Project yourself into every stage of the evolution of your IBM i platform:

- Short-term
  Graphic interfaces
  Reuse of existing business applications
- Middle/Long term
  Consolidation on IBM Power
  Development of new applications

Use case: Modernization

Reuse existing IBM i applications (RPG, SQLRPG) and build modern interfaces with new, scalable functions



Example:

Case study : i.Gayte.it

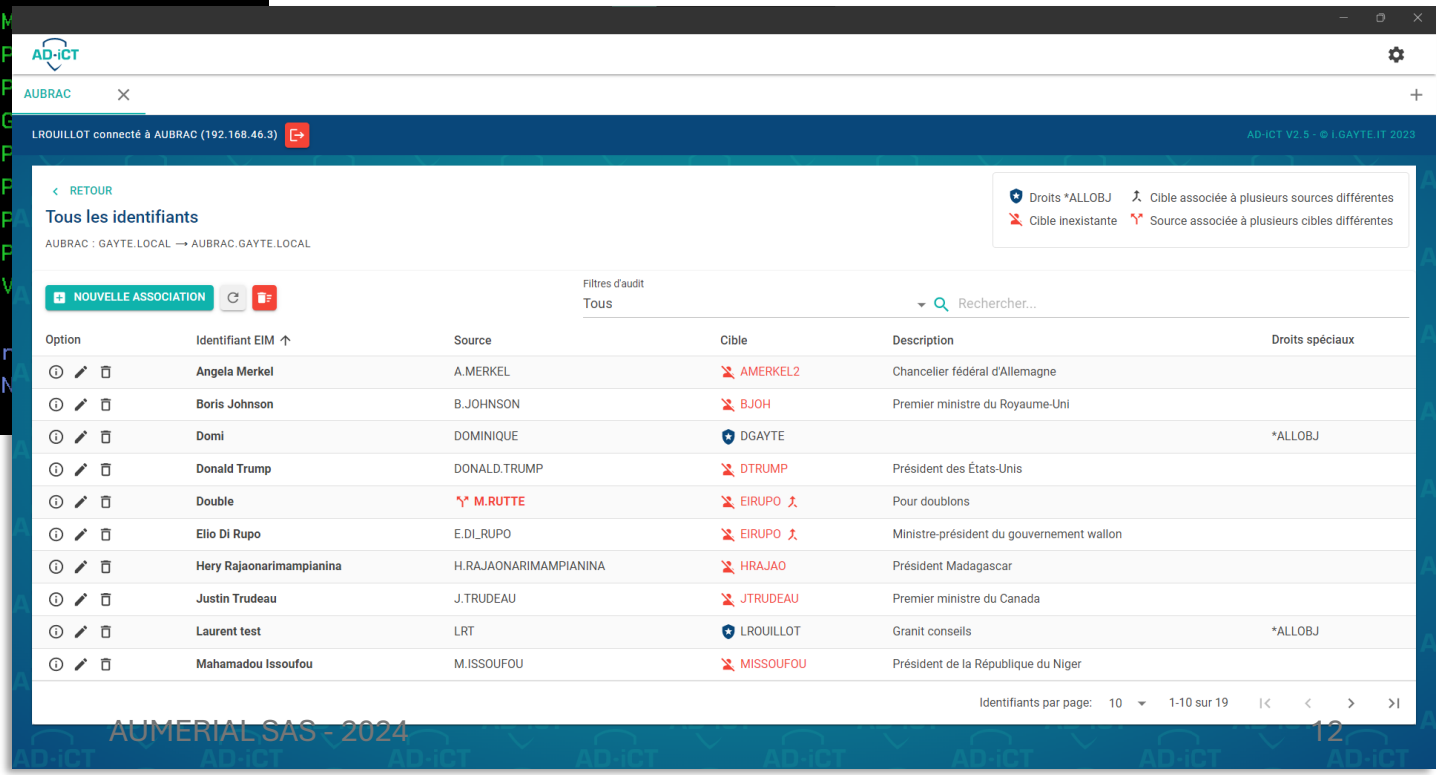
AD-iCT application GUI reuses all existing applications

```
 gayte.it                Tous les identifiants                    10/11/22
 SERVEUR   : AUBRAC                                               20:45:43
 SOURCE    : GAYTE.LOCAL
 CIBLE     : AUBRAC.GAYTE.LOCAL
Options    2=Modifier, 4=Supprimer, 5=Afficher
Identifiant contenant
 Opt IDENTIFICATION              SOURCE              CIBLE      DESC
  _ Angela Merkel                A.MERKEL            AMERKEL    Chancelier fédé
  = Boris Johnson                B.JOHNSON           BJOHNSON   Premier ministr
  _ Domi                         DOMINIQUE           DGAYTE
  _ Donald Trump                 DONALD.TRUMP        DTRUMP     Président des É
  _ Double                       M.RUTTE             EIRUPO     Pour doublons
  _ Elio Di Rupo                 E.DI_RUPO           EIRUPO
  _ Hery Rajaonarimampianina     H.RAJAONARIMAMPIANIN HRAJAO
  _ Justin Trudeau               J.TRUDEAU           JTRUDEAU
  _ Laurent test                 LRT                 LROUILLOT
  _ Mahamadou Issoufou           M.ISSOUFOU          MISSOUFOU
  _ MANU                         EMACRON             MACRON
  _ Marcelo Rebelo de Sousa      M.REBELO_DE_SOUSA   MDESOUSA
  _ Mark Rutte                   M.RUTTE             MRUTTE
  _ Martin Vizcarra              M.VIZCARRA          MVIZCARRA

      F1=Codes couleurs   F3=Exit      F5=Rafraîchir      F6=Cr
F11=Cibles inexistantes   F12=Précédent F14=Suppression Masse © N
```

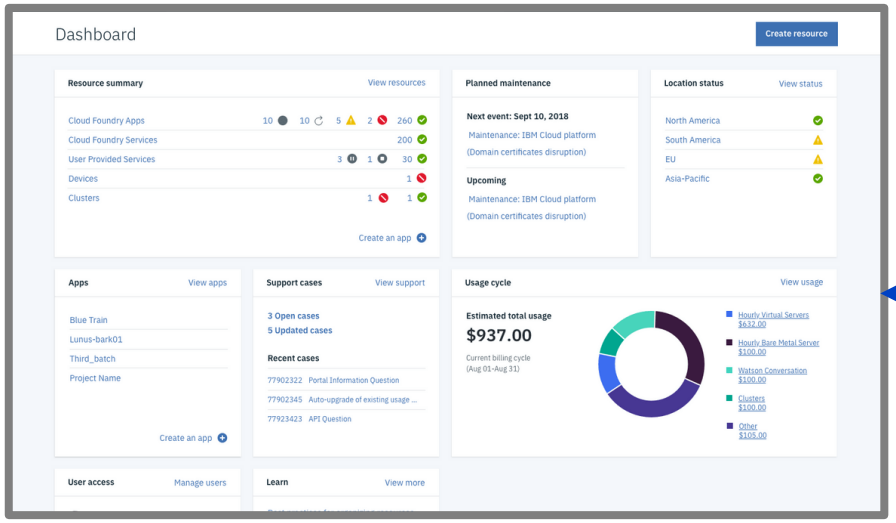
I.GAYTE.IT

IBM i Security Software & Services



Use case: New application

Develop new business applications using the IBM i and its database as a back-end



Front-end

Data access layer (EF Core)

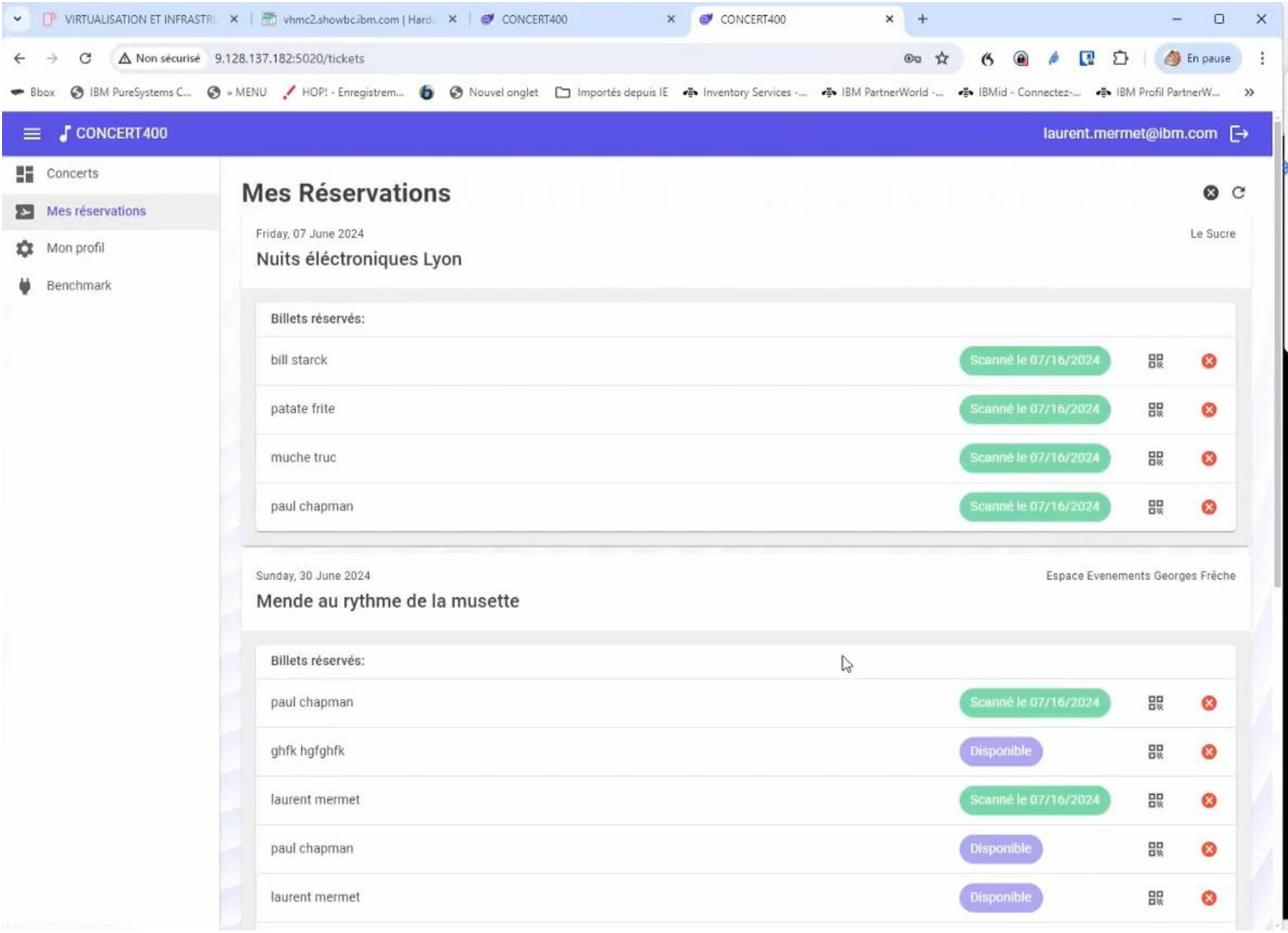
IBM i

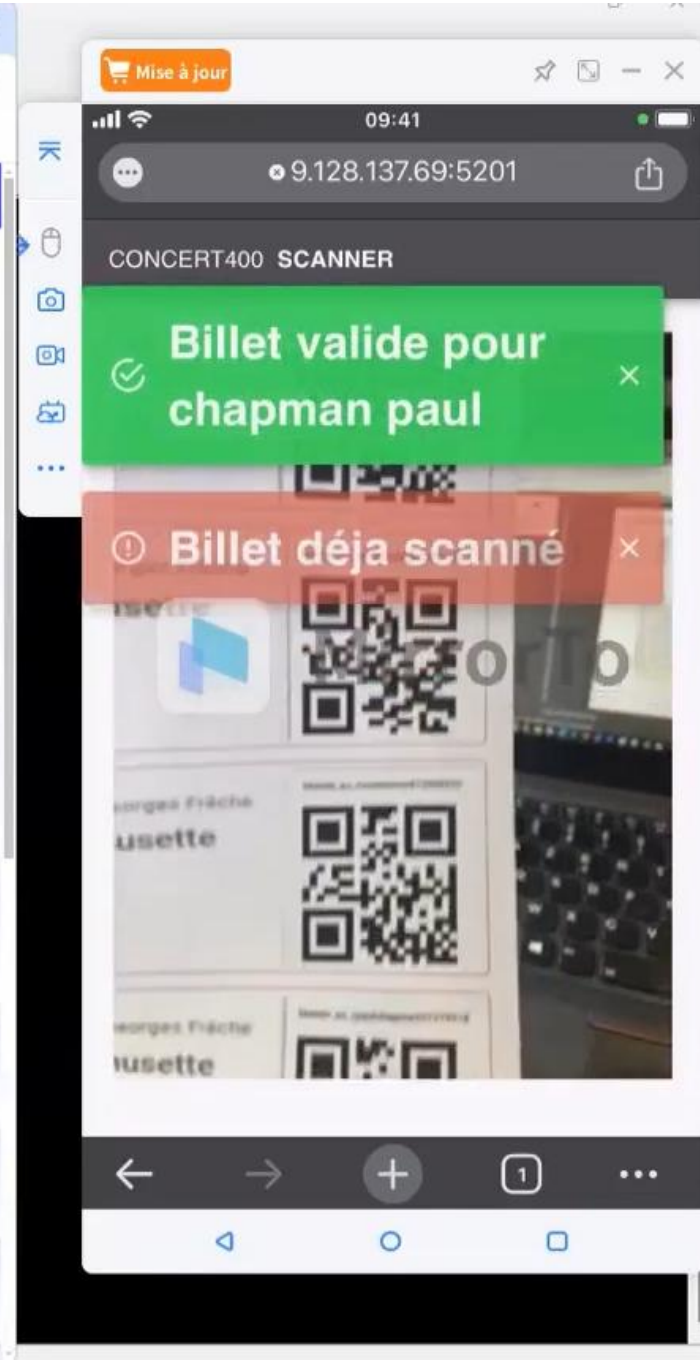
Database server

Example:

POC AUMERIAL/IBM

Concert ticket booking website + mobile app containerized on a Linux LPAR (Power 9)


CONCERT400
laurent.mermet@ibm.com
Concerts
Mes réservations
Mon profil
Benchmark
Mes Réservations
Friday, 07 June 2024
Le Sucre
Nuits éléctroniques Lyon
Billets réservés:
bill starck
Scanné le 07/16/2024
patate frite
Scanné le 07/16/2024
muche truc
Scanné le 07/16/2024
paul chapman
Scanné le 07/16/2024
Sunday, 30 June 2024
Espace Evenements Georges Frêche
Mende au rythme de la musette
Billets réservés:
paul chapman
Scanné le 07/16/2024
ghfk hgfghfk
Disponible
laurent mermet
Scanné le 07/16/2024
paul chapman
Disponible
laurent mermet
Disponible

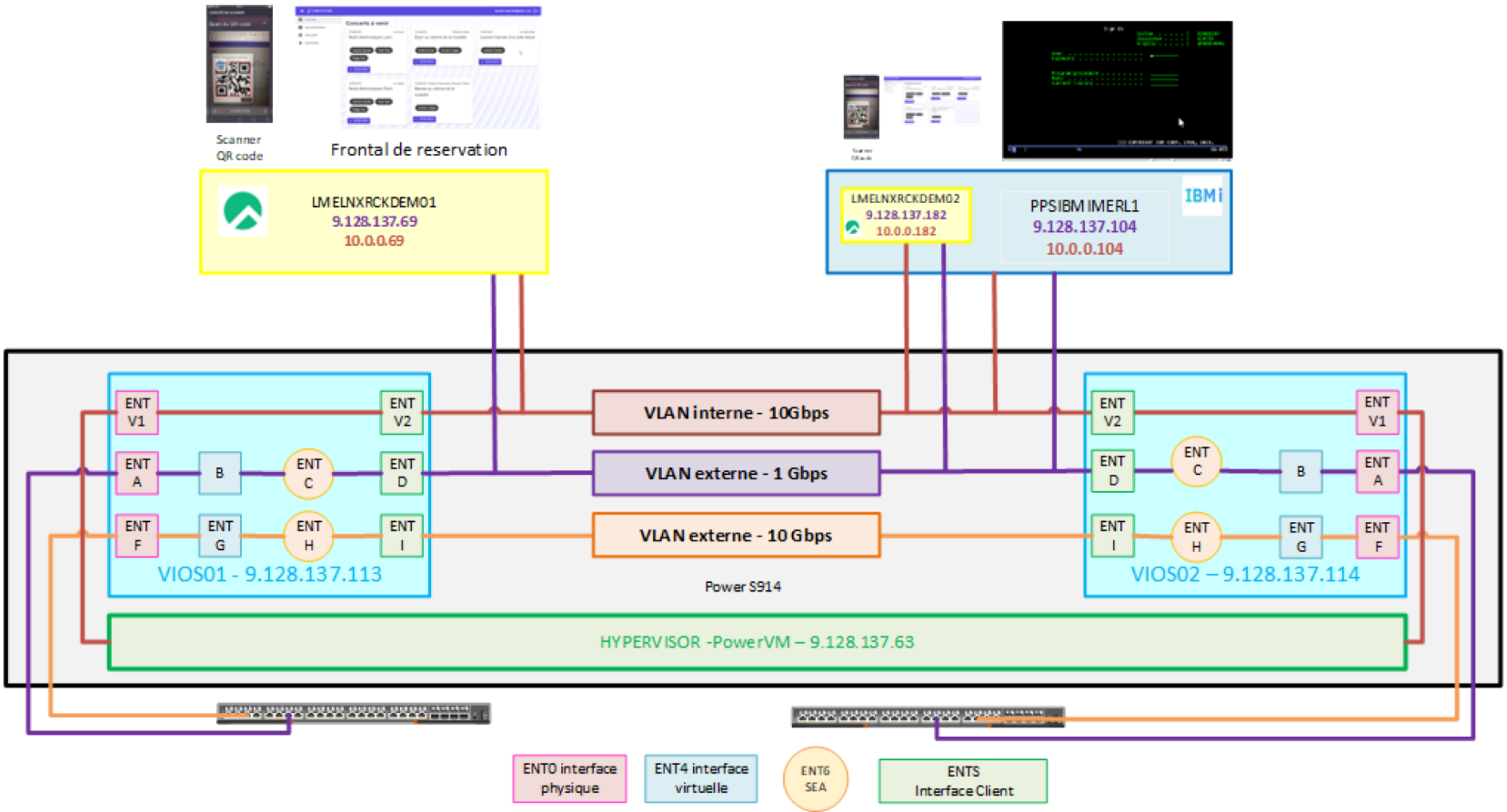

Mise à jour
09:41
9.128.137.69:5201
CONCERT400 SCANNER
Billet valide pour chapman paul
Billet déja scanné

Use case: .NET on Power

Deploy your .NET/IBM i applications directly on Power thanks to native .NET runtime support, and consolidate your infrastructure on a resilient, cost-effective platform.

Example:
POC AUMERIAL/IBM
Concert ticket booking website + mobile app containerized on a Linux LPAR (Power 9)

Infrastructure NTI/IBM i -concert400 + Scanner QR code
.Net / RockyLinux / IBM i / PowerVM / Power9



A single license

A single annual subscription for unlimited use

3,000 excl. tax/year per IBM i partition

✓Unlimited users

✓No notion of software group

✓Nti DataProvider, EF Core, Toolbox

Try it now

Contact our teams for a free trial and start-up support

France - WW

Rémi ROUILLOT

+33 6 86 83 91 09

remi.rouillot@aumerial.com

DACH - PL

Tomasz AFELTOWICZ-SCHULTZ

+49 179 421 6006

tafs@aumerial.com