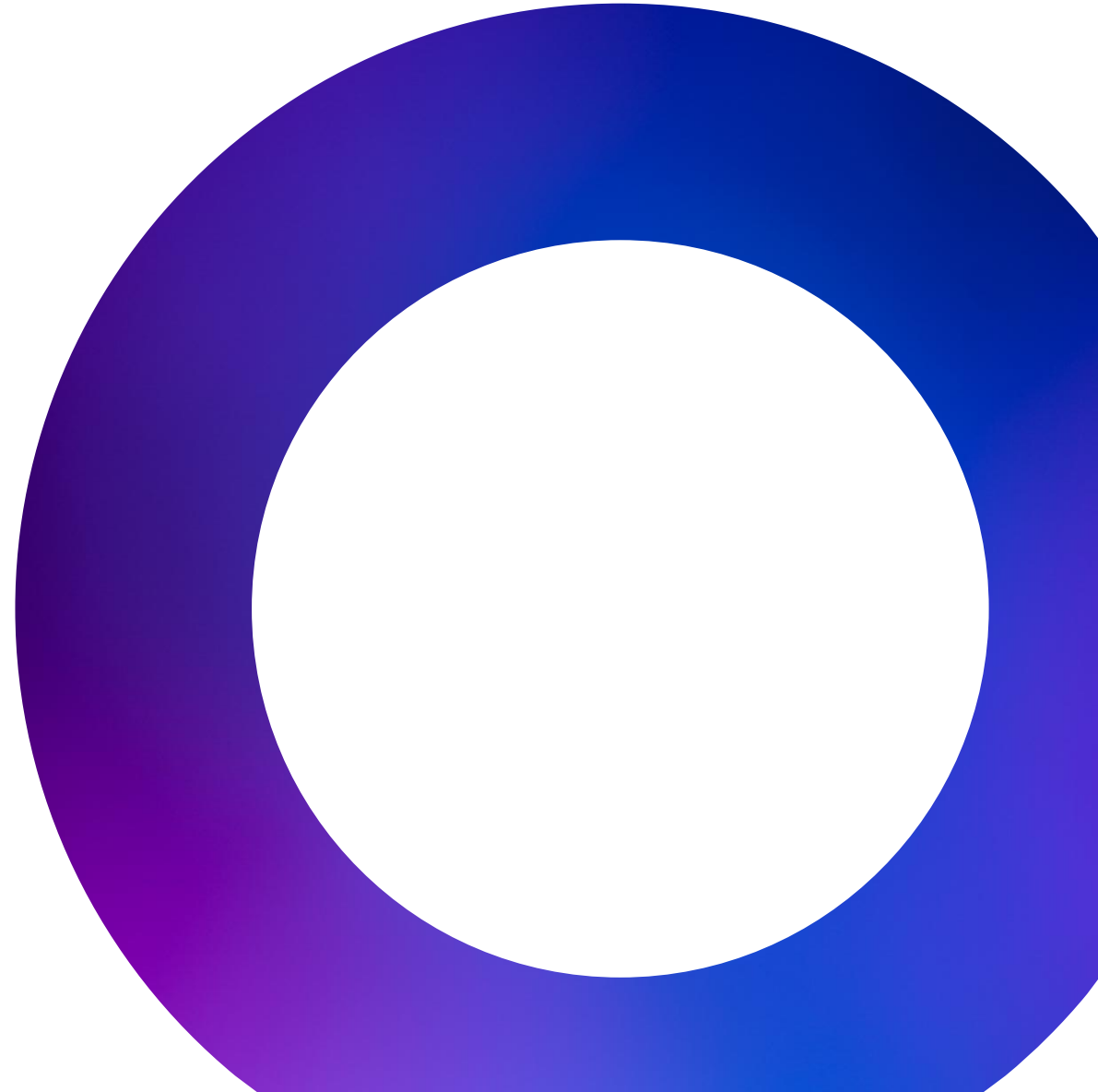


NTi

The future of the IBM i is written in .NET



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

 Default TCP services:
*DATABASE
*RMTCMD
*SIGNON



 + 
All platforms, without ODBC/JDBC driver

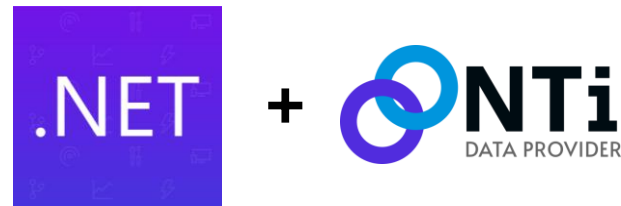
| Ā ēōŷ žĀ

- 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



Multi-plateform



Multi-architectures





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.

EF **Microsoft.EntityFrameworkCore**  by: aspnet dotnetframework EntityFramework
Microsoft

.NET 8.0

↓ 1 225 140 418 total downloads  last updated 2 days ago  Latest version: 9.0.0-rc.2.24474.1

Entity Framework Core entity-framework-core EF Data O/RM EntityFramework EntityFrameworkCore EFCore

Entity Framework Core is a modern object-database mapper for .NET. It supports LINQ queries, change tracking, updates, and schema migrations. EF Core works with SQL Server, Azure SQL Database, SQLite, Azure... [More information](#)



NTi Toolbox

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

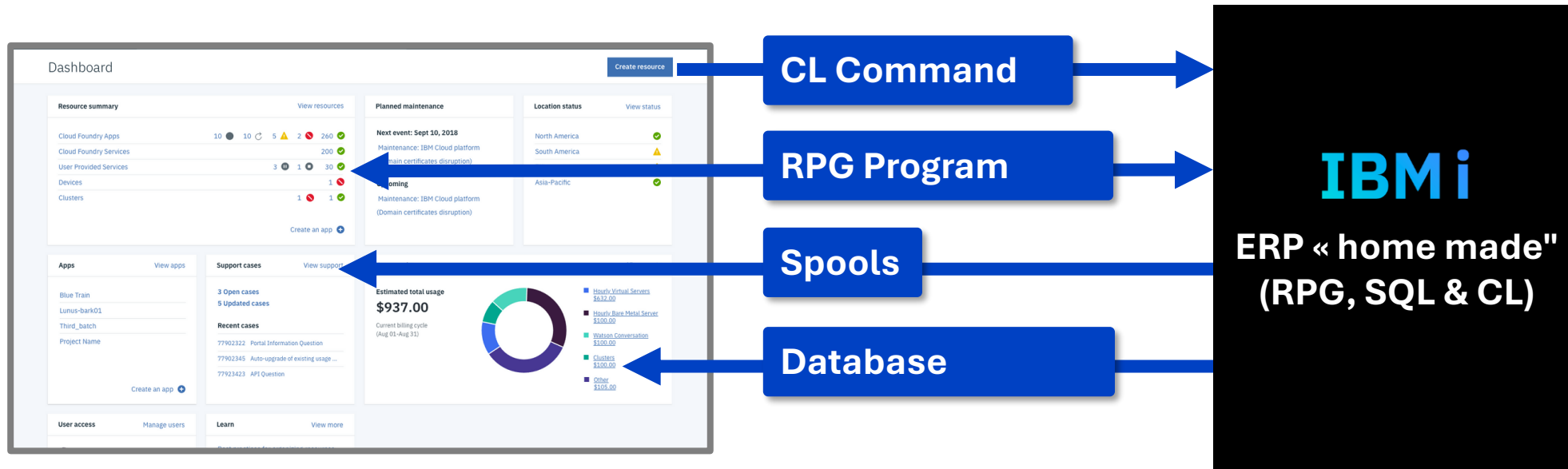
- **Middle/Long term**

- 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

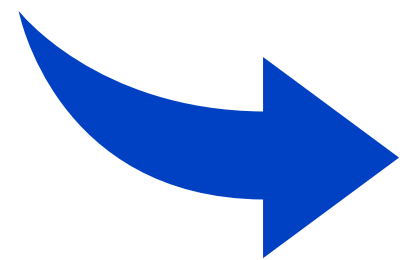
AD-iCT application GUI reuses all existing applications

```

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     Président des É
_ Donald Trump          DONALD.TRUMP DTRUMP     Pour doublons
_ Double                M.RUTTE    EIRUPO
_ Elio Di Rupo         E.DI_RUPO  EIRUPO
_ Hery Rajaonarimampianina H.RAJAONARIMAMPINANIN 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 MDESOSA
_ 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 © M



AD-ICT

AUBRAC

LROUILLOT connecté à AUBRAC (192.168.46.3)

AD-ICT V2.5 - © I.GAYTE.IT 2023

< RETOUR

Tous les identifiants

AUBRAC : GAYTE.LOCAL → AUBRAC.GAYTE.LOCAL

NOUVELLE ASSOCIATION

Filtres d'audit: Tous

Rechercher...

Droits *ALLOBJ Cible associée à plusieurs sources différentes
Cible inexistant Source associée à plusieurs cibles différentes

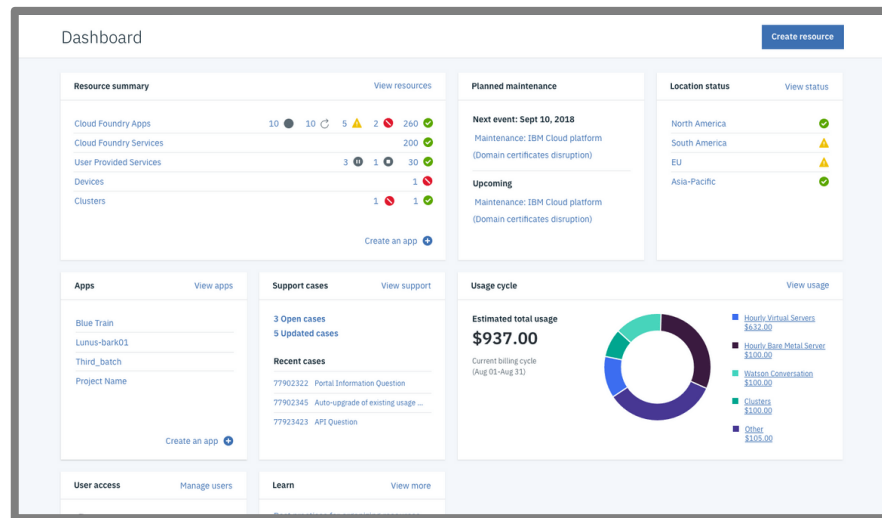
Option	Identifiant EIM ↑	Source	Cible	Description	Droits spéciaux
⓪ / ✎ / 🗑	Angela Merkel	A.MERKEL	AMERKEL2	Chancelier fédéral d'Allemagne	
⓪ / ✎ / 🗑	Boris Johnson	B.JOHNSON	BJOH	Premier ministre du Royaume-Uni	
⓪ / ✎ / 🗑	Domi	DOMINIQUE	DGAYTE		*ALLOBJ
⓪ / ✎ / 🗑	Donald Trump	DONALD.TRUMP	DTRUMP	Président des États-Unis	
⓪ / ✎ / 🗑	Double	M.RUTTE	EIRUPO	Pour doublons	
⓪ / ✎ / 🗑	Elio Di Rupo	E.DI_RUPO	EIRUPO	Ministre-président du gouvernement wallon	
⓪ / ✎ / 🗑	Hery Rajaonarimampianina	H.RAJAONARIMAMPINANIN	HRAJAO	Président Madagascar	
⓪ / ✎ / 🗑	Justin Trudeau	J.TRUDEAU	JTRUDEAU	Premier ministre du Canada	
⓪ / ✎ / 🗑	Laurent test	LRT	LROUILLOT	Granit conseils	*ALLOBJ
⓪ / ✎ / 🗑	Mahamadou Issoufou	M.ISSOUFOU	MISSOUFOU	Président de la République du Niger	

Identifiants par page: 10 1-10 sur 19

AUMERIAL SAS - 2024

Use case: New application

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



Front-end



Example:

POC AUMERIAL/IBM

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

VIRTUALISATION ET INFRASTRU... | vhm2.showbc.ibm.com | Hard... | CONCERT400 | CONCERT400

Non sécurisé 9.128.137.182:5020/tickets

CONCERT400 laurent.mermet@ibm.com

Mes Réservations

Friday, 07 June 2024 Le Sucre

Nuits électroniques Lyon

Billets réservés:

bill starck	Scanné le 07/16/2024	QR	✗
patate frite	Scanné le 07/16/2024	QR	✗
mucho truc	Scanné le 07/16/2024	QR	✗
paul chapman	Scanné le 07/16/2024	QR	✗

Sunday, 30 June 2024 Espace Evènements Georges Frêche

Mende au rythme de la musette

Billets réservés:

paul chapman	Scanné le 07/16/2024	QR	✗
ghfk hgfhgfk	Disponible	QR	✗
laurent mermet	Scanné le 07/16/2024	QR	✗
paul chapman	Disponible	QR	✗
laurent mermet	Disponible	QR	✗

Mise à jour

09:41

9.128.137.69:5201

CONCERT400 SCANNER

Billet valide pour chapman paul

Billet déjà scanné

The image shows a mobile application interface for scanning concert tickets. At the top, there's a status bar with signal strength, Wi-Fi, and battery icons, along with the time 09:41. Below that is a browser-like address bar showing the URL 9.128.137.69:5201. The main header reads 'CONCERT400 SCANNER'. A green notification bubble with a checkmark says 'Billet valide pour chapman paul'. Below it, a red notification bubble with an exclamation mark says 'Billet déjà scanné'. The background shows a camera view of several QR codes on tickets, with some partially obscured by the notifications. At the bottom, there's a navigation bar with back, forward, and home icons, and a tab indicator showing '1'.

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

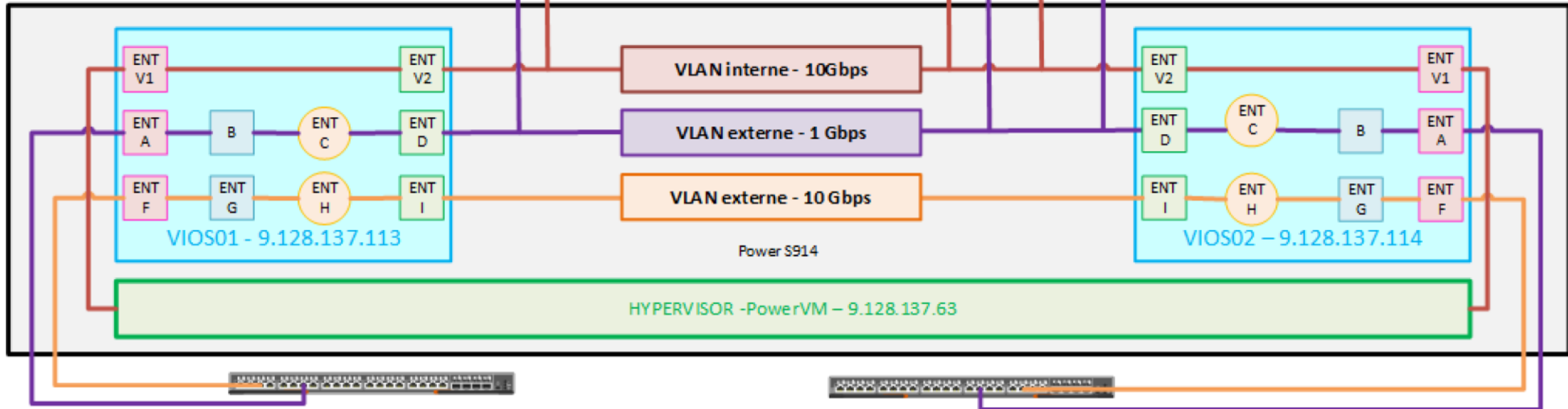


LMELNXRCKDEMO1
9.128.137.69
10.0.0.69

LMELNXRCKDEMO2
9.128.137.182
10.0.0.182

PPSIBMIMERL1
9.128.137.104
10.0.0.104

IBM i



ENT0 interface physique

ENT4 interface virtuelle

ENT6 SEA

ENTS Interface Client

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@umerial.com

DACH - PL

Tomasz AFELTOWICZ-SCHULTZ

+49 179 421 6006

tafs@umerial.com