RAD Server

Delivering Enterprise data via REST in minutes

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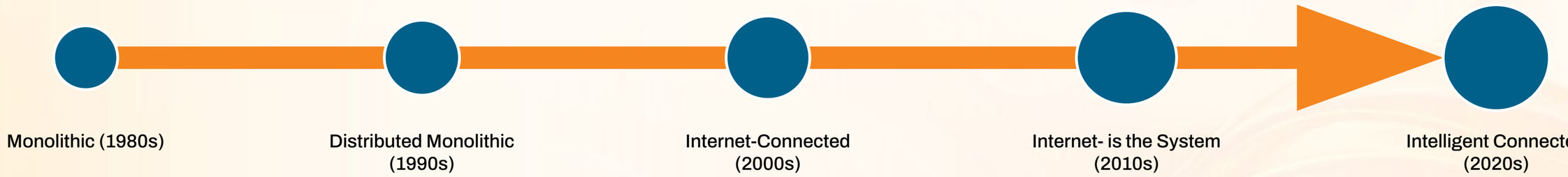
Agenda 🕐

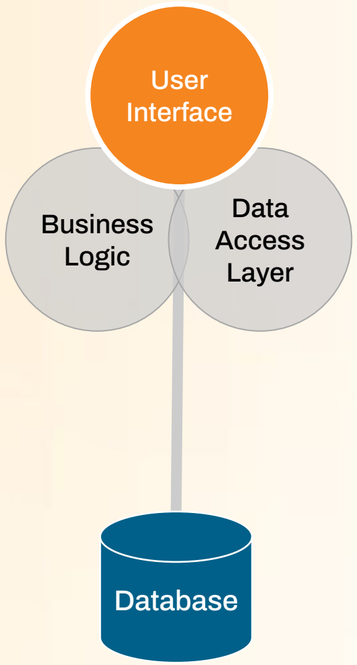
1. System Architecture Evolution
2. What is REST API?
3. RAD Server Overview
4. Demonstrations
5. More Information
6. Q&A

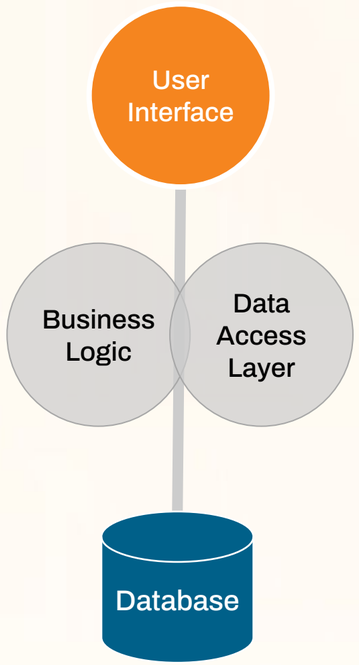
System Evolutions

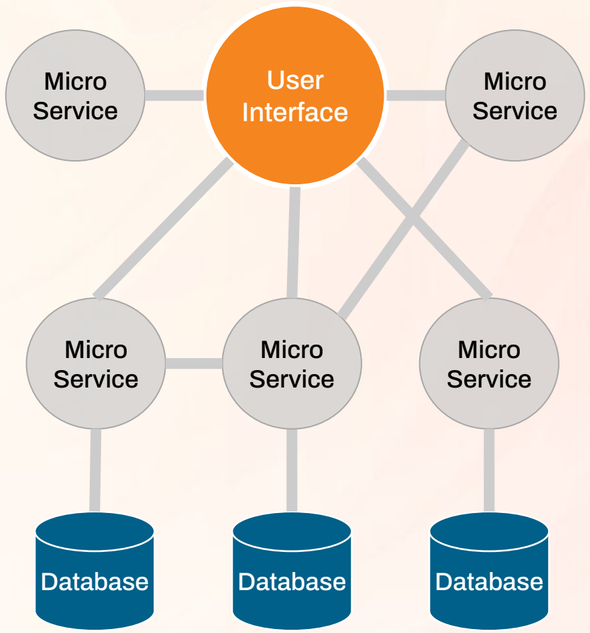
Architecture Innovations

System Architecture Evolution









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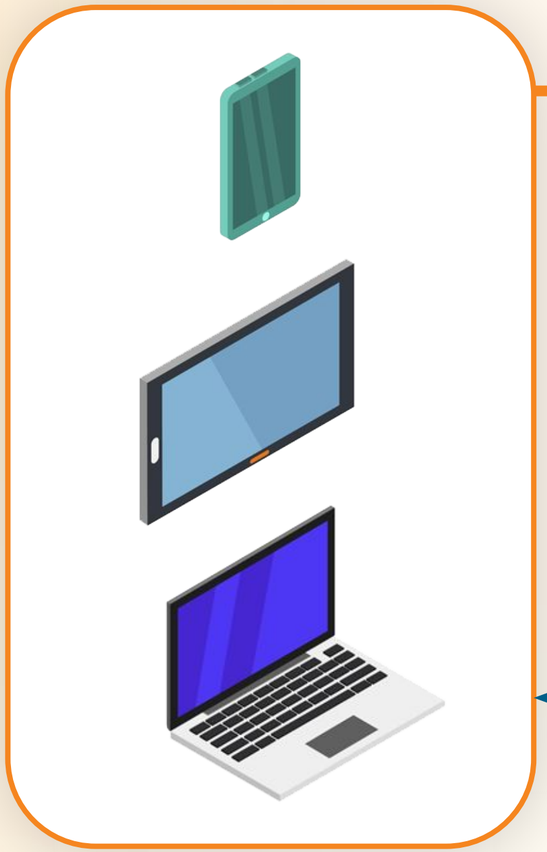
What is REST API Architecture?

Consumer (Client)



HTTP Request

Message exchange
JSON or XML
GET,POST,PUT,DELETE

HTTP Response

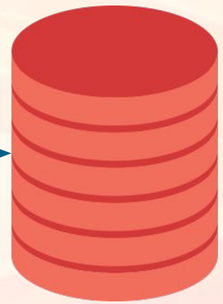
Service provider (server)

web services

authentication

static files

Database



3rd party services

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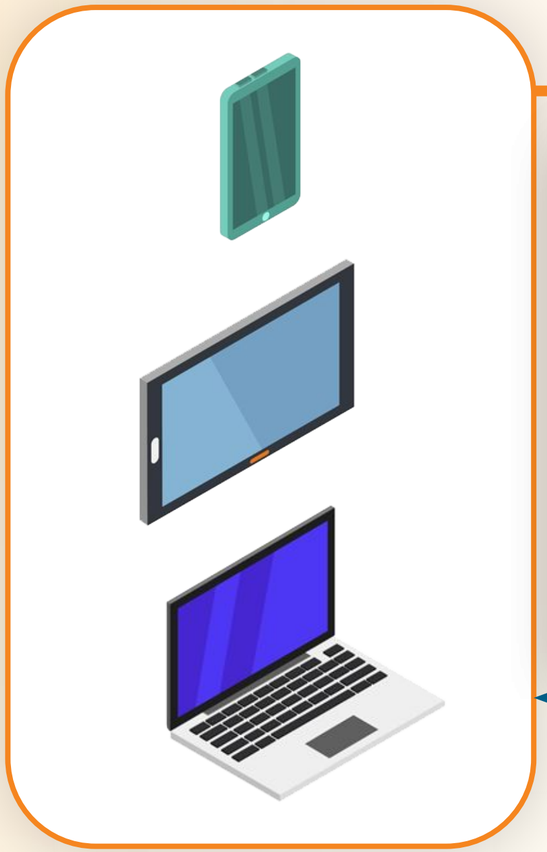
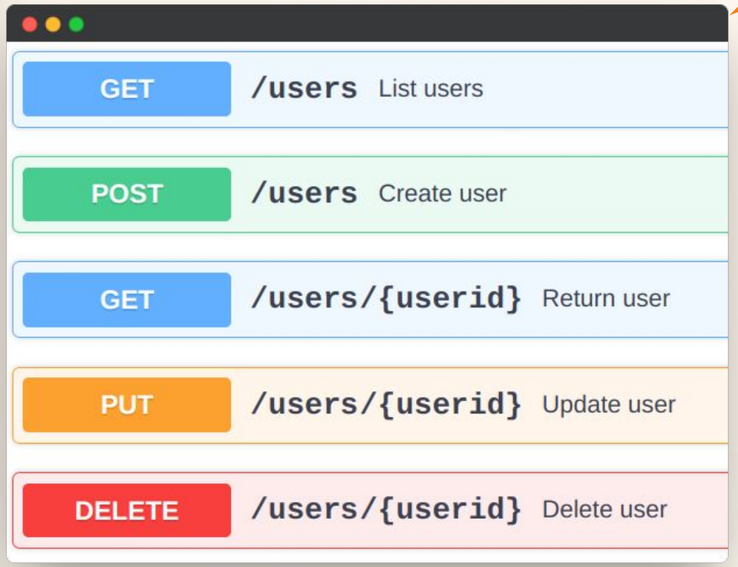


HTTP Request



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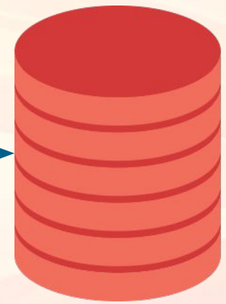

3rd party services

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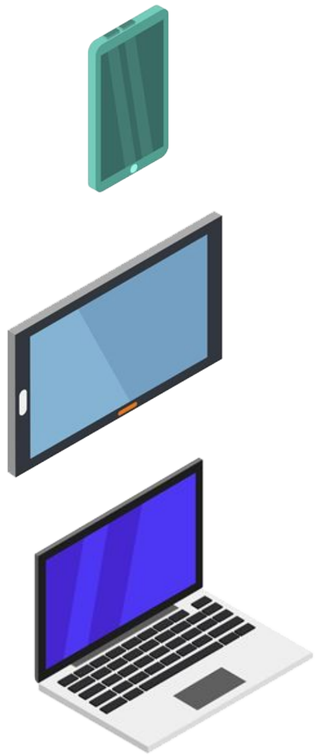


HTTP Request

```
{
  "user_id": 5433,
  "name": "John Doe",
  "email": "john.doe@test.com",
  "created_at": "2023-05-09T12:01:23.787Z",
  "email_verified": false,
  "hobbies": ["videogames", "cooking", "gardening"],
  "addresses": [
    {
      "street": "95 Netherpark Crescent",
      "postalCode": "PE35 3UF",
      "city": "Sandringham"
    },
    {
      "street": "64 Ramsgate Rd",
      "postalCode": "EX15 0DL",
      "city": "Willand"
    }
  ]
}
```

HTTP Response

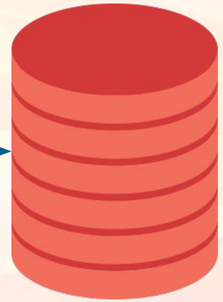
Service provider (server)

web services

authentication

static files

Database



3rd party services

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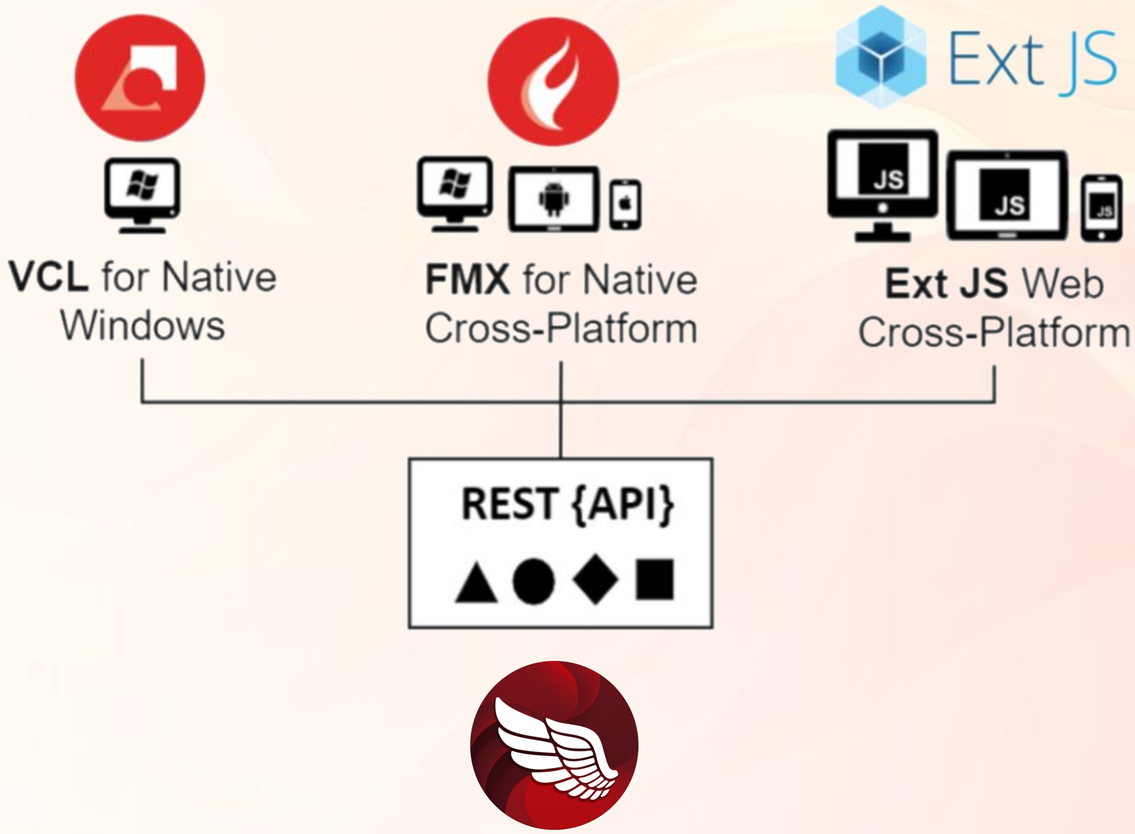
What is RAD Server (in one slide)?

A fully powered M.E.A.P. (Mobile Enterprise Application Platform)

- The engine for multi-tier applications
  - Deploy on premise on in the cloud
  - Comes with tons of ready-to-use features
- Migrate your data access logic to a web service
- Build flexible and thin Windows VCL clients, multi-device clients for desktop and mobile, Web + JavaScript clients or micro services
- Works on Windows (IIS), Linux (Apache) and Docker



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RAD Server - Multi-tier Made Easy!

Finally... a backend solution as easy as Delphi

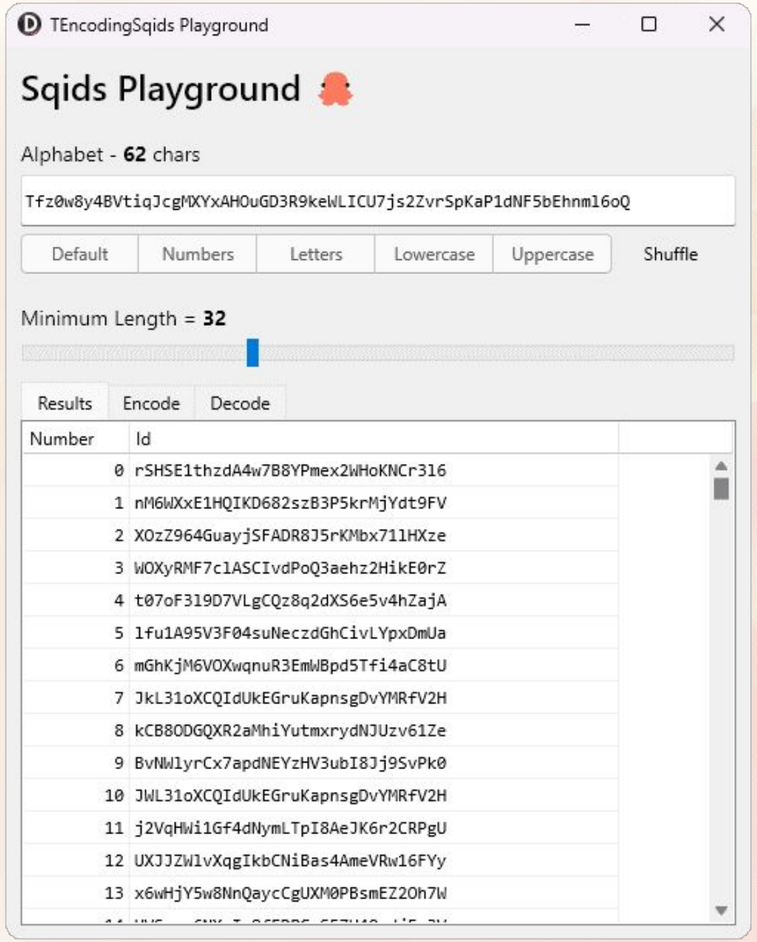
- LITE DEPLOYMENT
- NO CODE INSTANT API
- BaaS
- ACCESS CONTROL
- MULTI-TENANCY SUPPORT
- STATIC FILES PROVIDER
- CUSTOMIZED CRUD
- API ANALYTICS
- WINDOWS & LINUX
- SQIDS SUPPORT
- BUILT-IN SECURE DATASTORE
- SWAGGER OPEN API
- DOCKER SUPPORT
- AUTH TOKEN
- SYSADMIN API
- PUSH NOTIFICATIONS
- USER LOCATION PROXIMITY
- ENTERPRISE DATA
- ACTIVE DIRECTORY SUPPORT
- CUSTOM AUTHENTICATION

Demo

GitHub demo

RAD Server y Sqids

- Sqids is an improved version of Hashids: sqids.org
- Replace physical IDs in a URL with a string (YT style)
- `/customers/12345` ➜ `/customers/tyyksole`
- Fully integrated and ready-to-use in RAD Server
- Available as a standalone class **`TSqidsEncoding`**



Blog Post

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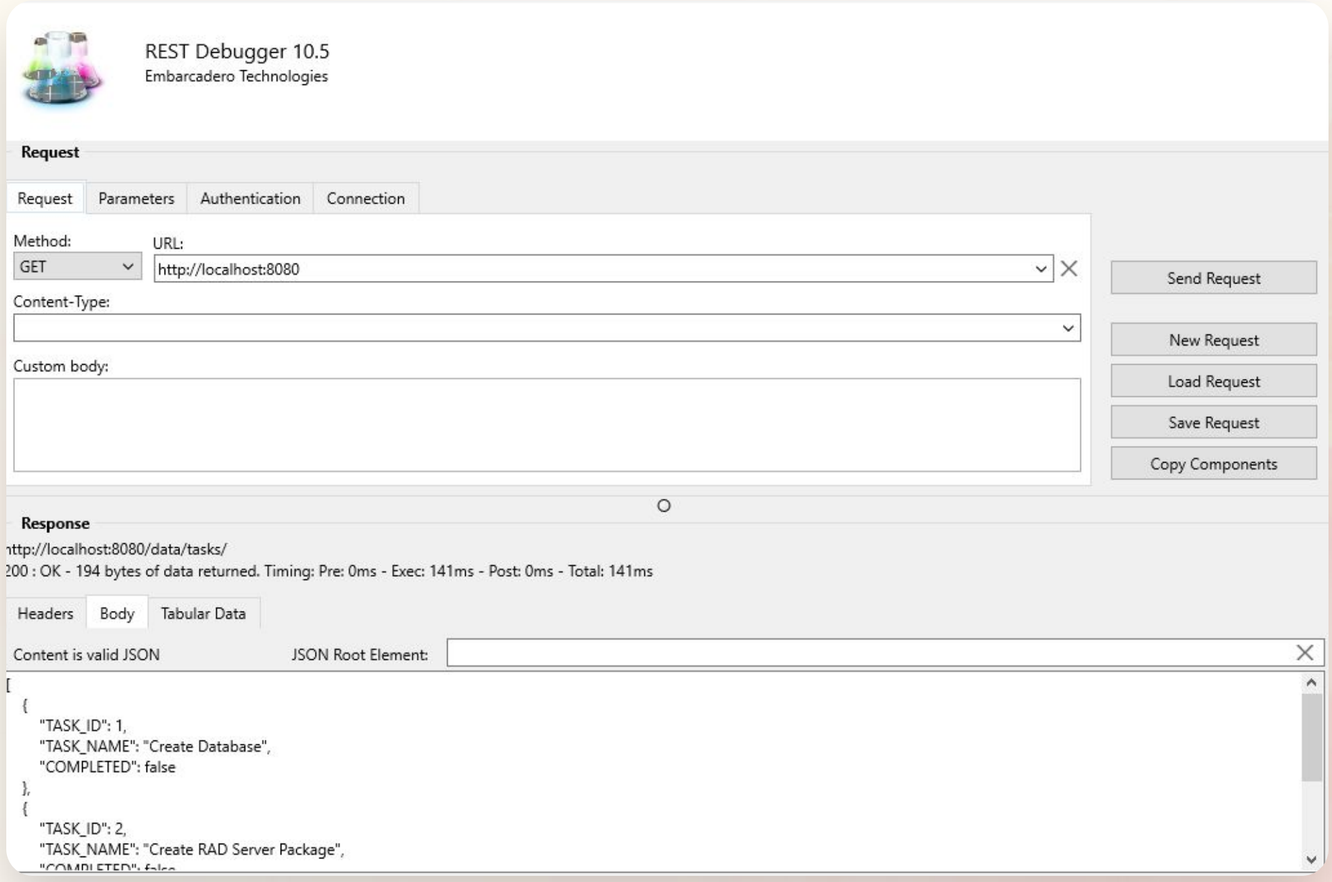
REST Debugger

- Test your own or 3rd party APIs
- Multiple authentication methods
- See results in JSON or tabular data
- Copy components to RAD Studio



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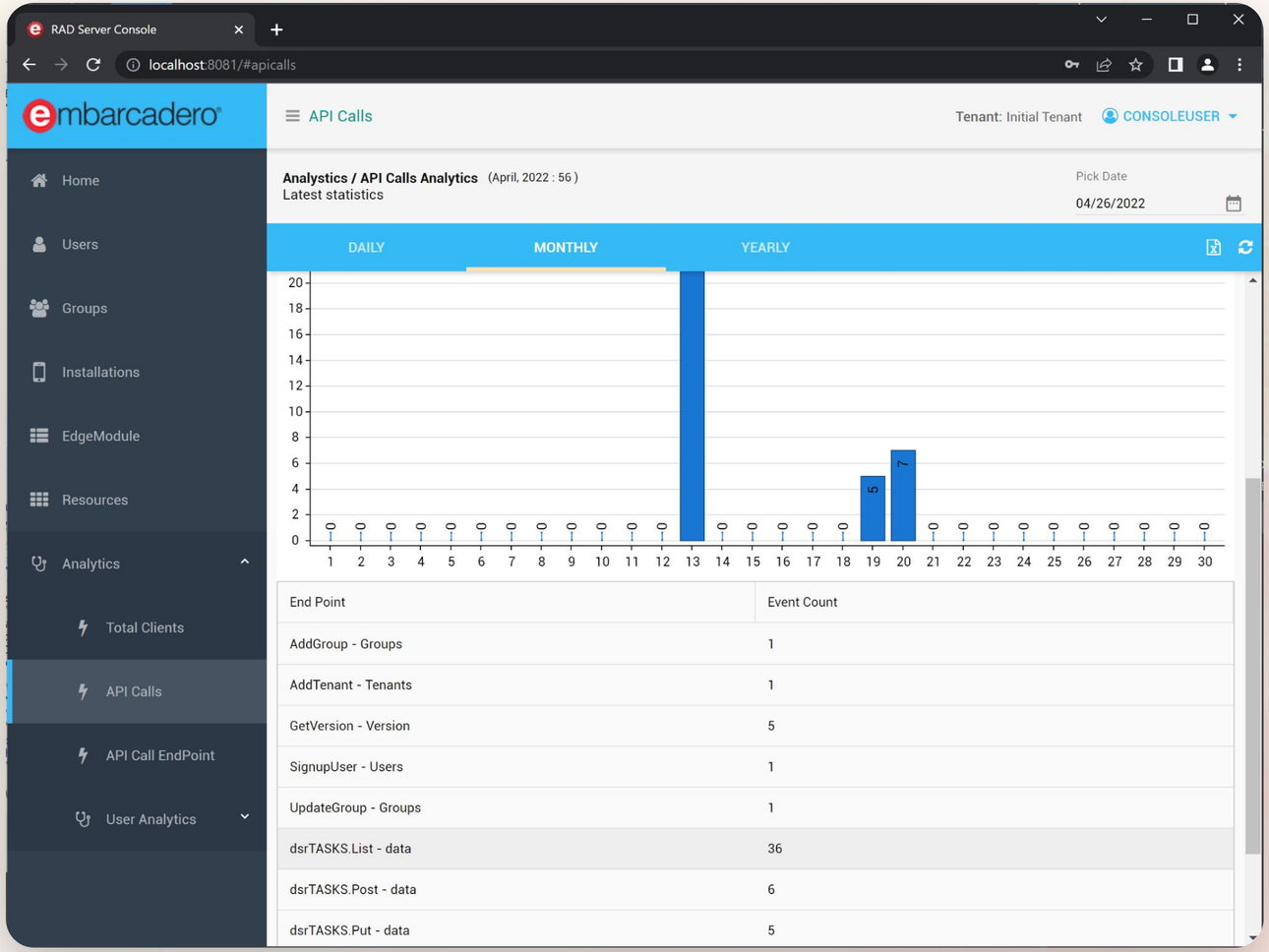
Analytics

- Advanced and granular analytics
- Verify most and least used endpoints
- User based analytics
- Multi-tenancy statistics
- Drill down into specific details



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Licensing RAD Server

MULTI-SITE

SINGLE-SITE

LITE

Features Included	SAME FEATURES INCLUDED WITH ALL EDITIONS		
Description	Multiple locations on prem or cloud	Single location on prem or cloud	Multiple locations as standalone app
Scalability	Unlimited Multi Node (Load Balancer)	Unlimited Multi Node (Load Balancer)	Single node
Supported Platforms	Windows/Linux/Docker	Windows/Linux/Docker	Windows/Linux (executable)
Deployment Model	Multi physical sites	Single site	Multi physical sites
Included With	Architect	Enterprise	Architect/Enterprise
Security	Based on selected backend	Based on selected backend	No HTTPS Support (Reverse Proxy)
InterBase	InterBase Server	InterBase Server	IBToGo (copy & paste)
License Management	License for each deployment	License for each deployment	Free to deploy

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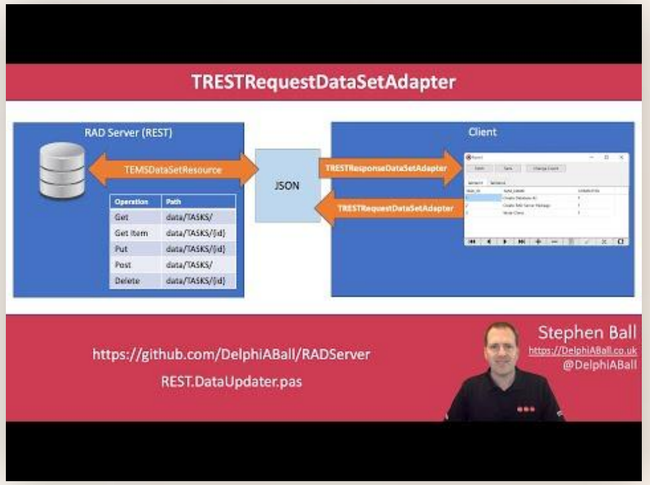
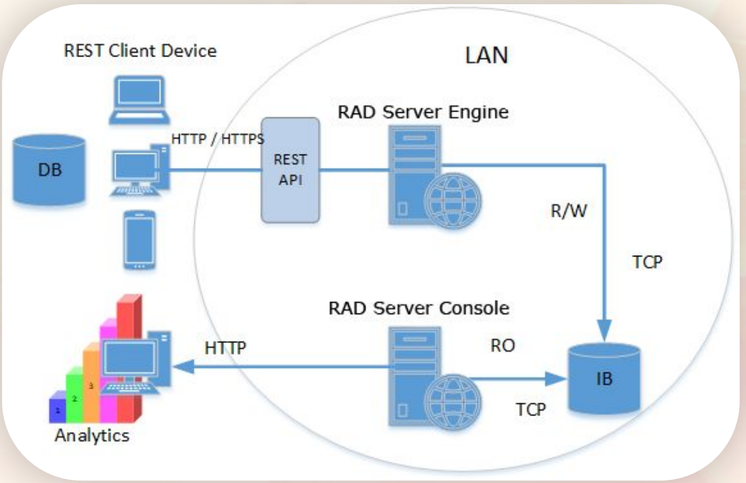
More information





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Q&A

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RAD Server Info