Cloud Strategies with RAD Server

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Agenda

Two words on 10.3.3

What is RAD Server?

RAD Server, Docker, Cloud
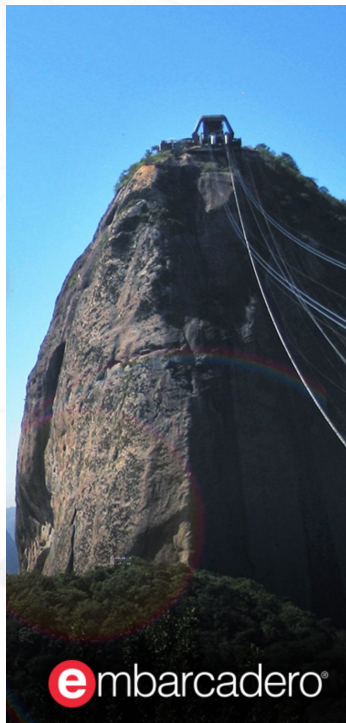
What's New in 10.3.3

*

- Delphi Android 64-bit support
- macOS Catalina (Delphi) and iOS 13 support
- RAD Server Docker support
- AppTethering improvements
- C++ Clang compiler quality
- Continuous IDE improvements

RAD Studio
RX
10.3.3 Rio

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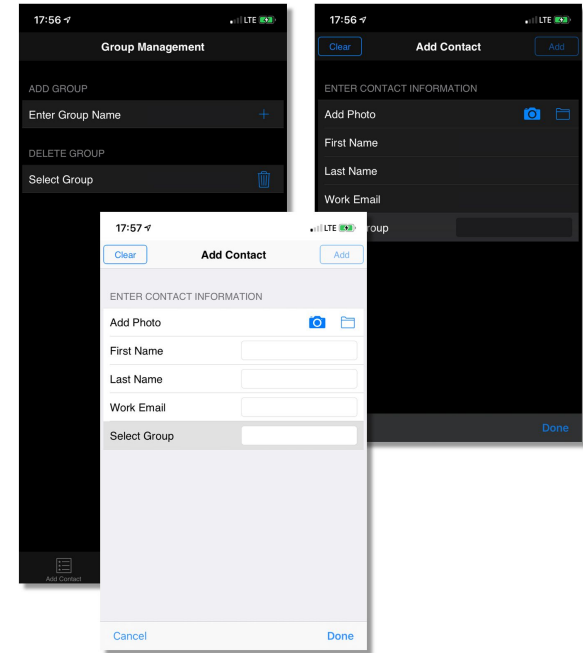# Android 64-bit application support for Delphi

Support the Google Play Store and address new 64-bit requirement

- Build Google Play Store ready Android 64-bit applications
  - Includes Android App Bundle support
- New Delphi compiler for the Android 64-bit platform, based on the LLVM compiler infrastructure
  - Still ARC enabled, to reduce migration effort
  - Extensive RTL support
- Complete support for the FireMonkey library and all FireMonkey controls previously available on the Android 64-bit platform
- Support for the database RTL and the FireDAC client access library
  - InterBase support for Delphi Android 64-bit
- Quality Improvements in Android FMX support for both 32-bit and 64-bit

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macOS 64-bit Catalina & iOS 13 support

Target the Apple App Store and latest macOS & iOS versions

- Build App Store ready iOS 13 mobile applications, complete with Dark Theme support (Delphi & C++Builder)
- Target the macOS App Store with 64-bit macOS Catalina apps, complete with notarization support (Delphi only)

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10.3.3 Key Quality Enhancements

- App Tethering quality for Wifi and Bluetooth connectivity (VCL and FireMonkey)
- C++ quality in the STL, RTL, and compiler, especially for Windows 64-bit
- IDE Font and Font Size Setting support, Welcome Page enhancements; editor tabs show modified status; and more
- Delphi Compiler and Runtime Library quality
- iOS: improved support for editing, virtual keyboard, push notifications
- Android: support for Android 10, fixes for the Camera component and related action
- macOS: improvements in notarization support
- FireDAC & Database enhancements
- Web Clients improvements in HTTP Client library

10.3.3 addresses ~ 180 publicly reported quality issues

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What's RAD Server?

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What is RAD Server in One Slide

The engine for multi-tier applications

  Deploy on premise on in the cloud

  Comes with tons of ready-to-use features: users and groups management, multi-tenancy, detailed analytics, push notifications support, swagger documentation support, beacon fencing…

Migrate your data access logic to a web service

Build flexible and thin Windows VCL clients, multi-device clients for desktop and mobile or Web + JavaScript clients

Works on Windows and Linux, IIS and Apache (standalone not recommended beyond development), Delphi and C++Builder (Windows only)

Extended URL mapping in 10.3

Mapping goes beyond URL

    EndpointProduce: MIME types for GET

    Depends on Accept HTTP request header

    EndpointConsume: MIME type for PUT/POST

    Depends on Content-Type HTTP request header

Mapping to custom method names

    Using attribute [EndpointMethod]

Delegate to class implementing IEMSEndpointPublisher

    Generally requires [ResourceSuffix] declaration, filtering operations

Ready to Use Components

TEMSFileResource

    Maps to folder

    PathTemplate property indicates a path with {var} markers

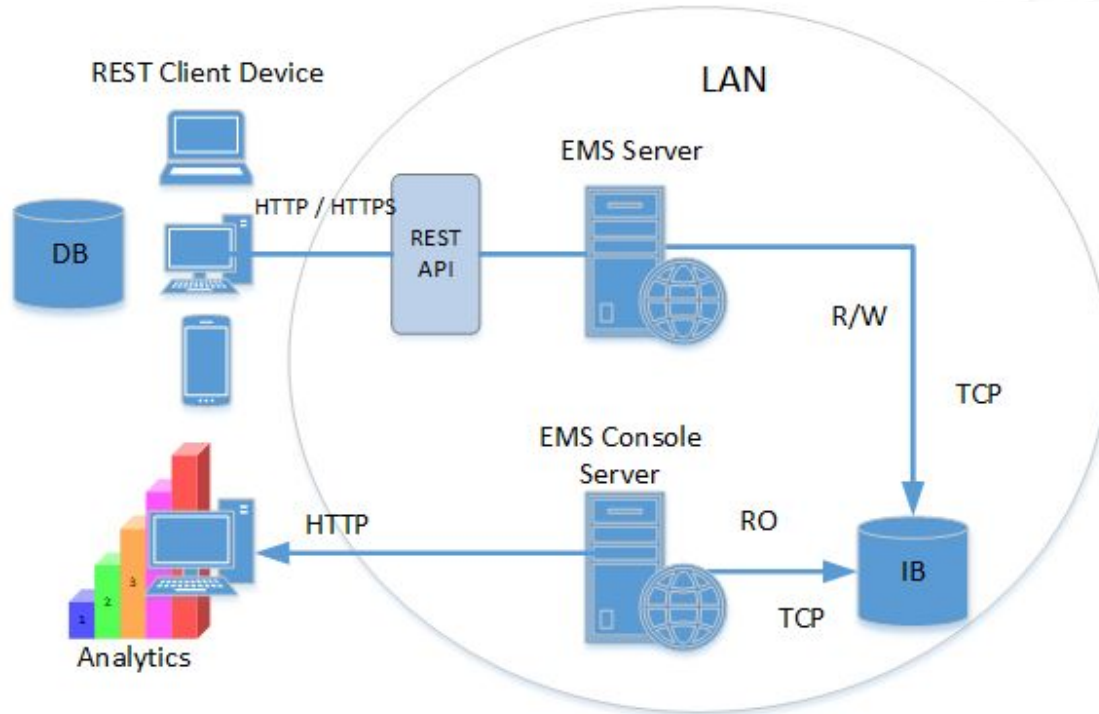   Expanded using request params

TEMSDataSetResource

    Maps to a dataset

    Offers GET/POST/PUT/DELETE operations

    LIST (Get /) including paging and sorting

    Customize parameters to Keys mapping

RAD SERVER ARCHITECTURE

RAD Server, Docker, Cloud

RAD Server Deployment Improvements

Much easier configuration and deployment for RAD Server multi-tier

- RAD Server Docker deployment and configuration support through ready-to-use scripts
  - 3 Docker scripts will be shared on GitHub Embarcadero account
- Ready-to-use Docker Image
  - Pre-built Docker image for RAD Server on Linux, hosted on Docker Hub, greatly simplifying the deployment of RAD Server to production in Docker

Docker Pull Command

```
docker pull radstudio/pa-radserver-i
```

10.3.3 RAD Server Docker Support

Much easier configuration, deployment and management for RAD Server multi-tier

- Support for docker containers on Linux
  - Docker scripts on GitHub
  - Plain Linux apps
  - RAD Server without DB
  - RAD Server with DB
- Docker Hub ready images
  - For the 3 scenarios

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Questions?

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