

Empezando con DataSnap para Windows y Linux 64 bits

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AGENDA

- Arquitectura Multicapa
- DataSnap
 - Conceptos Generales
 - Modelos Soportados
 - Estándar REST/JSON
- Demos

Presentation tier

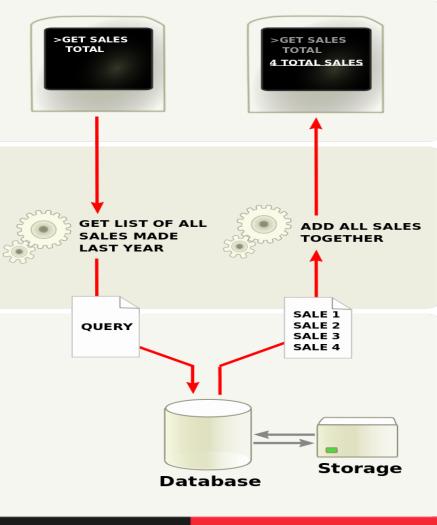
The top-most level of the application is the user interface. The main function of the interface is to translate tasks and results to something the user can understand.

Logic tier

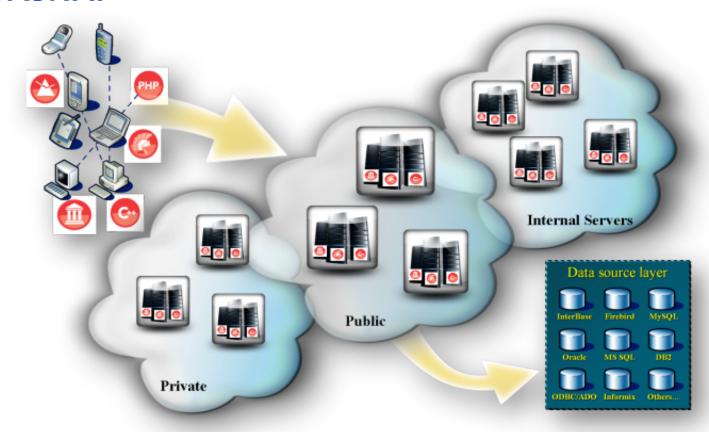
This layer coordinates the application, processes commands, makes logical decisions and evaluations, and performs calculations. It also moves and processes data between the two surrounding layers.

Data tier

Here information is stored and retrieved from a database or file system. The information is then passed back to the logic tier for processing, and then eventually back to the user.



DATASNAP



CONCEPTOS GENERALES

- Inicialmente conocido como MIDAS
- Aplicación Server
 - Delphi e C++ Builder
- Aplicación Cliente
 - Delphi, C++ Builder
 - Cualquier plataforma de acuerdo con el protocolo elegido
- Diferentes arquitecturas y protocolos a través del tiempo
 - COM/DCOM, TCP/IP (Socket), HTTP/HTTPs, REST/JSON

MODELOS SOPORTADOS

- MIDAS (IAppServer)
 - COM/DCOM
 - SOCKET (TCP/IP)
- SQLConnection (TSQLConnection)
 - TCP/IP
 - HTTP, HTTPs
- RestConnection (TDSRestConnection)
 - HTTP, HTTPs

ESTÁNDAR REST/JSON

- Arquitectura (no es un protocolo)
- Representational State Transfer
- Consolidado y soportado por todas las plataformas modernas
 - Desktop, Mobile e WEB
- Un protocolo cliente/servidor sin estado: cada mensaje HTTP contiene toda la información necesaria para comprender la solicitud
- Un conjunto de operaciones bien definidas
 - POST, GET, PUT e DELETE

ESTÁNDAR REST/JSON

- Cada recurso (o método) REST tiene su propio identificador
 - GET http://jsonplaceholder.typicode.com/posts/1
- Notación JSON (JavaScript Object Notation)
 - Más sencillo y ligero en comparación con XML

```
/* will return
{
   id: 1
   title: 'foo',
   body: 'quia et suscipit [...]',
   userId: 1
}
*/
```

DEMOS

Recursos Adicionales

Documentación

- http://docwiki.embarcadero.com/RADStudio/Seattle/en/DataSnap_Overview and Architecture
- http://docwiki.embarcadero.com/RADStudio/Berlin/en/Developing_Dat aSnap_Applications
- http://docwiki.embarcadero.com/RADStudio/Seattle/en/Tutorial: Using a DataSnap Server with an Application
- http://docwiki.embarcadero.com/RADStudio/Seattle/en/Tutorial: Using a REST DataSnap Server with an Application
- http://docwiki.embarcadero.com/RADStudio/Berlin/en/Tutorial: Using
 a REST_DataSnap_Server_with_an_Application_and_FireDAC

Recursos Adicionales

Blogs e Tutoriales

- https://pt.wikipedia.org/wiki/Arquitetura_multicamada
- http://www.slideshare.net/hburakcetinkaya/rest-res-tful-web-services
- http://etutorials.org/Programming/mastering+delphi+7/Part+III+Delphi +Database Oriented+Architectures/Chapter+16+Multitier+DataSnap+Applications/
- http://www.slideshare.net/kmerlotti/datasnap-avanado-respostaspara-um-sistema-robusto-embarcadero-conference-2015
- https://www.embarcadero.com/rad-in-action/datasnap-xe
- https://www.embarcadero.com/rad-in-action/delphi-labs
- https://www.embarcadero.com/rad-in-action/datasnap-rest

Recursos Adicionales

- Configuración Ubuntu y RedHat
 - http://chapmanworld.com/2016/12/29/configure-delphiand-redhat-or-ubuntu-for-linux-development/
- Configuración Interbase Linux 64
 - https://community.embarcadero.com/blogs/entry/installing-interbase-xe7-on-linux

GRACIAS!

Preguntas?

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