

Pivotal Development Tools

Our portfolio is oriented to present technical products created by Grupo Lanka specifically for Pivotal systems. Video-demo showcases are available to show some of the most interesting features that will dramatically improve the development time and user experience of Pivotal systems.

Grupo Lanka's Pivotal Development tools are integrated by the follow individual products:

- Pivotal Active Directory Synchronization service
- Pivotal Instrumentation Module
- Pivotal Integration Module: DBConnection
- Pivotal Data Visualization Module
- Pivotal Templates for Visual Studio
- Pivotal MonitoringIT

Pivotal Active Directory Synchronization Service

This service keeps a Pivotal system synchronized with the Active Directory. Currently, although Pivotal security relies on Active Directory for user authentication, this requires System Administrators (IT) to manually create users in Pivotal, add users to security groups, assign licenses, etc. This service will monitor the Active Directory for a particular security group, and will make any changes to the Pivotal security according to changes made in the Active Directory.

These changes are configurable and can include the following:

- Creation of the user in Pivotal
- Groups membership users administration
- Assignment/un-assignment of licenses
- Creation of employee records

Suitable for: Pivotal 5.9, Pivotal 6.x (CMS o PCM)

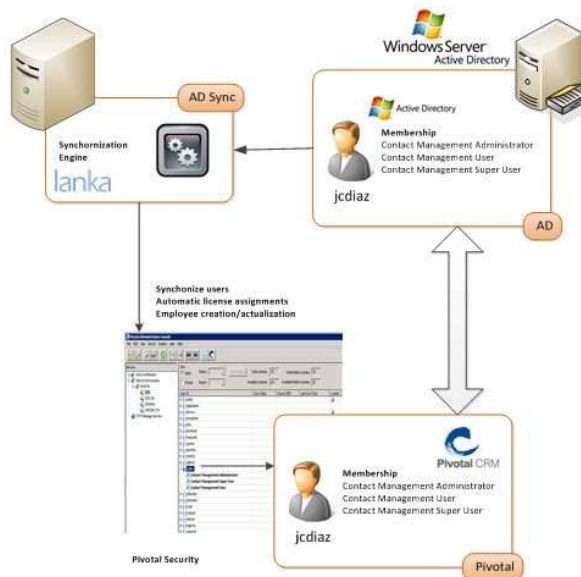
Price: \$2,200

Pivotal Active Directory Synchronization service video-demo

Shows an example of how the Pivotal Active Directory Synchronization works. The video-demo shows how an IT administrator creates a new user in AD and how the user is automatically created in Pivotal, with an employee record associated and a license assigned. It also shows how the group membership is made from AD and how membership is synchronized automatically.

Link: <http://vimeopro.com/grupolanka/pivotalshowcase/video/52167842>

Pivotal Active Directory Synchronization service flowchart



Pivotal Instrumentation Module

Out of the box, Pivotal provides basic instrumentation tools for administrators and developers. Almost every Pivotal project requires some kind of instrumentation, especially when in production, to control what's going on with the system. This ability is often a requirement asked by IT Administrators. Developers also need some way to instrument the code written and often need to develop instrumentation code for every project.

Pivotal Instrumentation Module is created to provide the system instrumentation that both IT Administrators and Developers need. All this instrumentation can be configured and turned off or on in real time with minimal impact on the system. Developers rely on a platform that will provide logs, performance counters and real time tracing.

Main features:

- Performance counters for the Transition Point operations (Load/Save/Add/New/Delete) on server tasks
- Tracing capabilities to different trace listeners (event viewer, Pivotal table, text/xml/csv file)
- Level tracing (with levels such as Information/Verbose/Error/Warning/Critical...)
- Online configuration (no need to shut down the system to get the changes)
- Automatic measure of operations registering start/stop times
- Automatic warning in case data operations exceeds a configurable threshold (eg. a DataAccess.GetDataTable takes more than 500ms. to execute). These warnings will allow to find difficult to spot performance bottlenecks
- Emission of EWT events to be monitored by specialized tools such as MS PerfView

Suitable for: Pivotal 6.0.9 or higher (PCM 6.0.8 HF1)

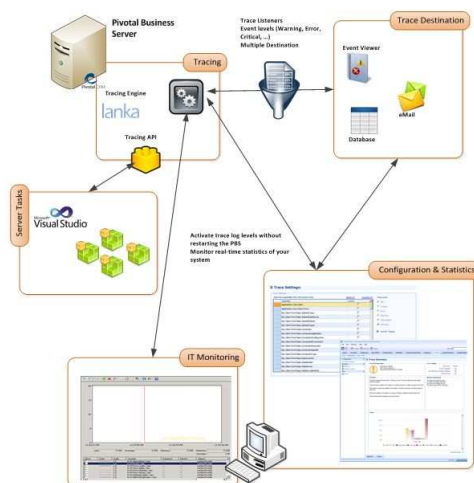
Price: \$4,500

Pivotal Instrumentation Module video-demo

Shows an example of how the Pivotal Active Directory Synchronization works. The video-demo shows how an IT administrator creates a new user in AD and how the user is automatically created in Pivotal, with an employee record associated and a license assigned. It also shows how the group membership is made from AD and how membership is synchronized automatically.

Link: <http://vimeopro.com/grupolanka/pivotalshowcase/video/52686041>

Pivotal Instrumentation Module flowchart



Pivotal Integration Module: DBConnection

The DBConnection will allow Pivotal systems to integrate with any external datasource that provides ADO.Net or WebService (SOAP) access. Pivotal projects usually require some kind of data integration with third party or legacy data sources. DBConnection provides the basis to establish on-line connections to these data sources. As a result, developers will not need to implement or develop the connection and mapping logic. They will just focus in the business logic while DBConnection takes care of managing the external connection details including the mapping logic between heterogeneous data models.

Main features:

- Connection to any ADO.Net or WebService (SOAP) datasource
- Declarative configuration of external connections and mappings using the Pivotal Client
- Configuration of tracing, logging, transaction management as part of the integration platform
- Automatic mapping of Pivotal entities (tables with secondaries and foreign keys) to external entities
- Provides a cache policy management to improve performance
- Provides a comprehensive API to be used on Pivotal Client/Server tasks
- Developers will always work with an ADO.Net DataSource (even if the external data is exposed through a web service)

Suitable for: Pivotal 6.0.8 or higher (CMS 6.0.5 o PCM 6.0.8 HF1)

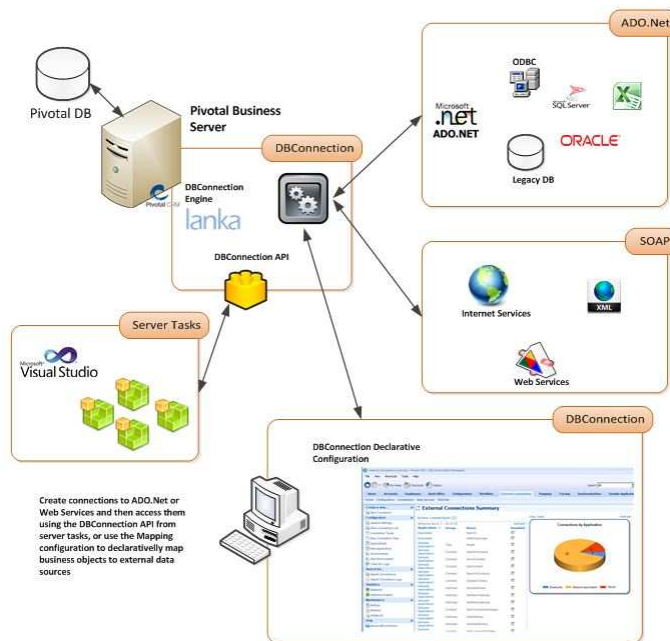
Price: \$8,100

Pivotal Integration Module: DBConnection video-demo

Shows an example of how the DBConnection works. The video shows a simple case where an external database is synchronized on-line with Pivotal.

Link: <http://vimeopro.com/grupolanka/pivotalshowcase/video/52836626>

Pivotal Integration Module: DBConnection flowchart



Pivotal Data Visualization Module

The Data Visualization Module allows creating HTML documents containing tabular data or graphical assents such as pie and bar charts. These HTML documents can be used in Client Forms containing a browser control. The main feature of the data visualization module is that it doesn't require for the data to be saved on the DB in order to display a graph or table. The data is passed as an ADO.Net DataTable (in-memory structure) and rendered in memory. There is no need to create temporary tables such as in the of SharePoint Pivotal webparts. This data visualization feature comes very handy when displaying information that is relevant to the current context only or to the current user.

Main features:

- Creation of pie and bar charts
- Creation of HTML tables
- Consumes ADO.Net DataTables as the input structure
- Based on jQuery and Flot javascript libraries

Suitable for: Pivotal 6.0.9 or higher (PCM 6.0.8 HF1)

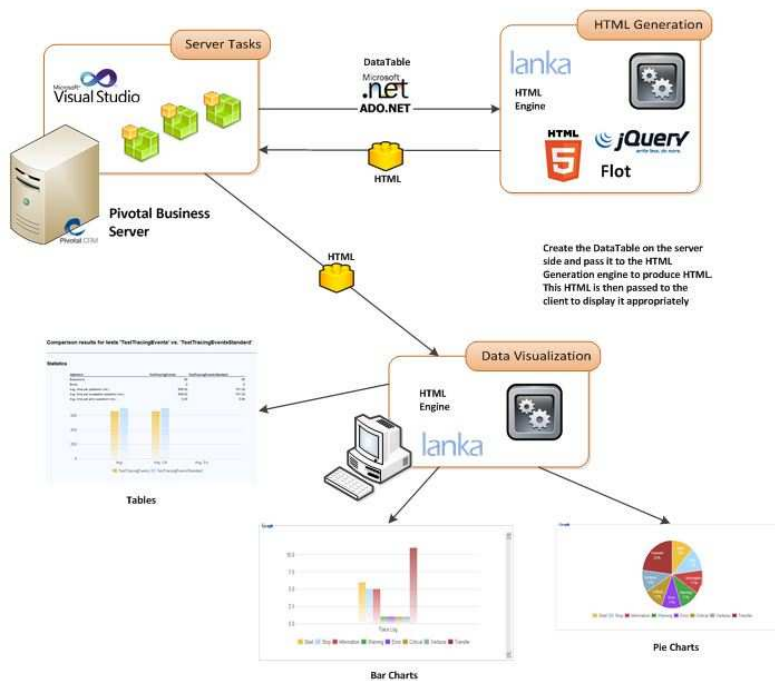
Price: \$3,400

Pivotal Data Visualization Module video-demo

This video-demo shows how to use data visualization enhancements to improve the user experience. Includes a simple example of how to format data with little customization and without having to create auxiliary tables.

Link: <http://vimeo.com/grupolanka/pivotalshowcase/video/52681791>

Pivotal Data Visualization Module flowchart



Pivotal Templates for Visual Studio

Templates for Visual Studio will accelerate Pivotal development by providing a proven methodology along with boilerplate code that will speed up development time. The templates are powered by a wizard that will create the metadata and boilerplate code based on the chosen Pivotal system. These templates will provide facilities for the creation of the following types of projects and project items.

Projects

- Form Server Task
- Service Tasks
- Client Tasks
- Metadata
- Global Client
- Common (classes that can be used both on the client and server side)

Project Items

- For the client side logic
 - Command Handlers
 - Events
 - Client Forms
 - Notification handlers
- For the metadata: automatic creation of the metadata for the following objects
 - Tables (with fields, forms, queries, choices, etc.)
 - LD Groups (and its LD Strings)
 - Server Tasks (with its methods)
- For the server side logic
 - Server Form/Service TaskExecute methods

Suitable for: Pivotal 6.0.9 or higher (PCM 6.0.8 HF1)

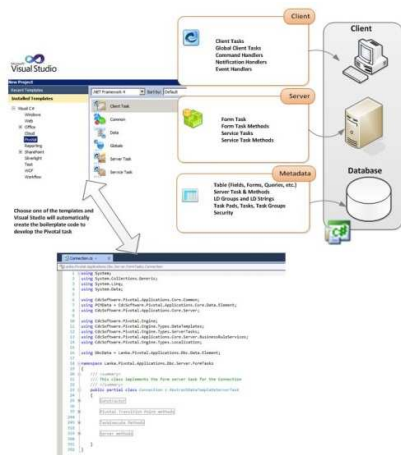
Price: \$2,720

Pivotal Templates for Visual Studio video-demo

This video-demo shows the enhancements made to the Visual Studio templates for Pivotal. Also, how to automatically build the metadata for Pivotal objects such as tables, ld groups and code files.

Link: <http://vimeo.com/grupolanka/pivotalshowcase/video/52687016>

Pivotal Templates for Visual Studio flowchart



Pivotal MonitoringIT Module

Pivotal MonitoringIT gives to IT Departments involved in Pivotal CRM Systems administration a simple and effective way to monitor infrastructure components, processes and services.

Pivotal MonitoringIT is a Windows application specifically designed for monitoring IT infrastructure components. It has been mainly developed to monitor Pivotal CRM suite components like the Lifecycle Server, the License Manager, the Integration Connector, the Active Notification Manager and others.

These services are configurable and can include the following:

- Monitor LCS, ANM, PLM and almost any other Pivotal CRM service.
- Receive e-mail notifications on the occurrence of failures on the monitored processes.
- Store detailed information of failures in a Microsoft SQL Database.
- Flexibility to create and plug in your own monitoring modules.

Software Requirements

- Windows 2003 Server with Service Pack 2 or higher.
- .Net Frameworks 3.5.
- Microsoft SQL Server 2008 Express
- Microsoft Exchange Server or any other SNMP compliant e-mail server.
- Optional: *Lanka Password Manager* (for encrypting passwords on configuration files)

Suitable for: Pivotal 5.9, Pivotal 6.x

Price: \$7,140

Pivotal MonitoringIT video-demo

The videos shows some case scenarios showing how the Pivotal MonitoringIT helps to solve problems related with the administration of a server farm and multiple systems. The cases show how an IT department receives alerts, notifying that there is something wrong with one of the Pivotal servers and walks through some of the steps that will help the IT administrator to solve the error.

Link: <http://vimeo.com/grupolanka/review/54512559/60a9b42a4c>

Pivotal MonitoringIT flowchart

