Laboratórios de Desenvolvimento de Software - LEI Application Deployment

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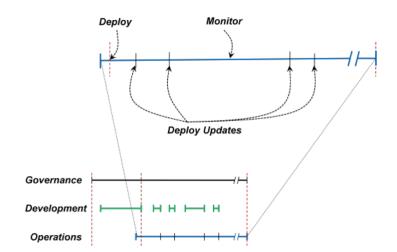
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Application Deployment

- Deployment consists of the activities related with the making application available for use;
- Includes:
 - the release and retirement of the product;
 - installation and uninstallation of the application;
 - updates and version tracking;
 - ...

Operations



Chappell, D., "What is Application Lifecycle Management?". White Paper, 2008.

VS Application Deployment

- Visual Studio provides two mechanisms for the deployment of desktop applications:
 - Windows Installer;
 - ClickOnce.
- Has also support for the deployment of web applications.

Windows Installer

- Created through a new Setup Project;
- Compiles to a .msi installation file;
- Project is configured to determine included files, requirements, application meta-data (to appear in the "Add/Remove Programs");
- Produces a setup.exe that checks requirements before running the msi;

Windows Installer

- Advanced customizations can be applied:
 - Define where in the file system the resources are installed;
 - Add keys to the registry;
 - File types of the application;
 - Custom actions (code to be executed).

Installing Web Services

- Installing web services is done through the same mechanism;
- However, the service must be registered after installation;
- Done through the ServiceInstaller and ServiceProcessInstaller components.

ClickOnce

- Once an application is released, handling updates is an arduous task;
- ClickOnce was developed to ease the update of applications;
- Creates self-updatable windows applications.

ClickOnce: Publish

- Applications are published online;
- They can be installed from a disc or from a remote location;
- If installed from a remote location, it can either be or not available offline.

ClickOnce: Update

- Updates may now be release by publishing new versions:
 - Managed at the Project Properties;
 - Also customizes how the application should be updated (frequency, minimal required version, ...).

Bibliography

