

The Power of a Well-Designed Build Process

Build Process Automation



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Agenda

- What is the build process?
- Why is it important?
- What are the goals?
- What are the benefits?
- How can it be done?

What is the Build Process?

The build process is the sequence of steps involved in the processes and procedures required to turn development versions of your product into a shippable version

Web

Results 1 - 10 of about 51,700,000 for **build process**. (0.41 seconds)

[Automate your build process using Java and Ant](#)

... A **build process** alone will speed the migration of software from ... tool that lets you construct your **build** scripts in much the same fashion as the "make" tool in ...
[www.javaworld.com/javaworld/jw-10-2000/jw-1020-ant.html](#) - [Similar pages](#)

[Apache Maven Simplifies the Java Build Process—Even More Than ...](#)

... Kodo's JDO byte-code enhancer (Kodo is a JDO implementation that post-processes class files to make them persistence-capable). Table 1: Daily **Build** Functions I ...
[www.devx.com/java/Article/17204](#) - [77k](#) - [16 Feb 2005](#) - [Cached](#) - [Similar pages](#)

[Visual Basic Build Process.](#)

... The first step in controlling the **build process** for your project, is to control the changes that team members can make to the project's source code. ...
[www.visibleprogress.com/vb_build_process.htm](#) - [23k](#) - [Cached](#) - [Similar pages](#)

[Adding a build process- ADTmag.com](#)

... neglected. But by adding them as part of an automated **process** that runs continuously, they can't be ignored. Make Ant part of your **build**. ...
[www.adtmag.com/article.asp?id=8111](#) - [45k](#) - [Cached](#) - [Similar pages](#)

[Compiling Apache for Microsoft Windows - Apache HTTP Server](#)

... BuildBin target project (or the command line _apacher or _apached target) prior to exporting the make files. Many files are autogenerated in the **build process**. ...
[httpd.apache.org/docs-2.0/platform/win_compiling.html](#) - [22k](#) - [Cached](#) - [Similar pages](#)

[The Build Process \(Building Distributed Applications\)](#)

... of the **build** coordinator, who should be informed by developers when new projects are added. All developers must be familiar with this **process**, so make sure ...
[msdn.microsoft.com/library/en-us/dhbdia/html/tdlg_ch5.asp](#) - [33k](#) - [16 Feb 2005](#) - [Cached](#) - [Similar pages](#)

[The Windows CE Build Process](#)

... The Windows CE **Build Process**. I've been working recently with some customers who have had to make some tweaks to our **build** system and they had a heck of a time ...
[blogs.msdn.com/cenet/archive/2005/01/06/348052.aspx](#) - [21k](#) - [Cached](#) - [Similar pages](#)

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[Lotus Advisor :: The Power of a Well-Designed Build Process for ...](#)

... LOTUS ADVISOR MAGAZINE APPLICATION DEVELOPMENT The Power of a Well-Designed **Build Process** for Lotus Notes and **Domino** A solid, well-documented **build process** can ...
lotus.advisor.com/doc/14430/ - [Similar pages](#)

[Build custom portlets for Domino: Portlet Builder for Domino ...](#)

... portlets can be a time-consuming **process**. With Portlet Builder for **Domino**, WebSphere users now have a new no-code option: using a portlet to **build** more portlets ...
www-106.ibm.com/developerworks/edu/i-dw-ls-prtlbldr-i.html?S_TACT=104AHW18&S_CMP=EDU - 17k - [Cached](#) - [Similar pages](#)

[Building Lotus Domino Portlets: Bowstreet Portlet Factory for ...](#)

... **Building Lotus Domino** Portlets: Bowstreet Portlet Factory for WebSphere streamlines the **process**. Level: Introductory Carl Kriger, IBM Nicole Carrier, Bowstreet. ...
www-106.ibm.com/developerworks/edu/i-dw-ls-bowstreet-i.html - 17k - [Cached](#) - [Similar pages](#)
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[Domino HowTo](#)

... workers.properties - A file that describes the host(s) and port(s) used by the workers (Tomcat **processes**). ... Now you should **build** via make. ...
jakarta.apache.org/tomcat/connectors-doc-archive/jk2/jk/domhowto.html - 35k - [Cached](#) - [Similar pages](#)

[Jakarta Tomcat Connector - Domino HowTo](#)

... the host(s) and port(s) used by the workers (Tomcat **processes**). ... If you're **building** the redirector from the source you may not need to make any changes ...
jakarta.apache.org/tomcat/connectors-doc/howto/domino.html - 24k - [Cached](#) - [Similar pages](#)
[\[More results from jakarta.apache.org \]](#)

[The History of Notes and Domino](#)

... of the software vendors **building** applications on ... an integrated manner, and make them available ... directory assistance, Administration **Process** enhancements, new ...
www-10.lotus.com/ldd/whatis/notes - 70k - [Cached](#) - [Similar pages](#)

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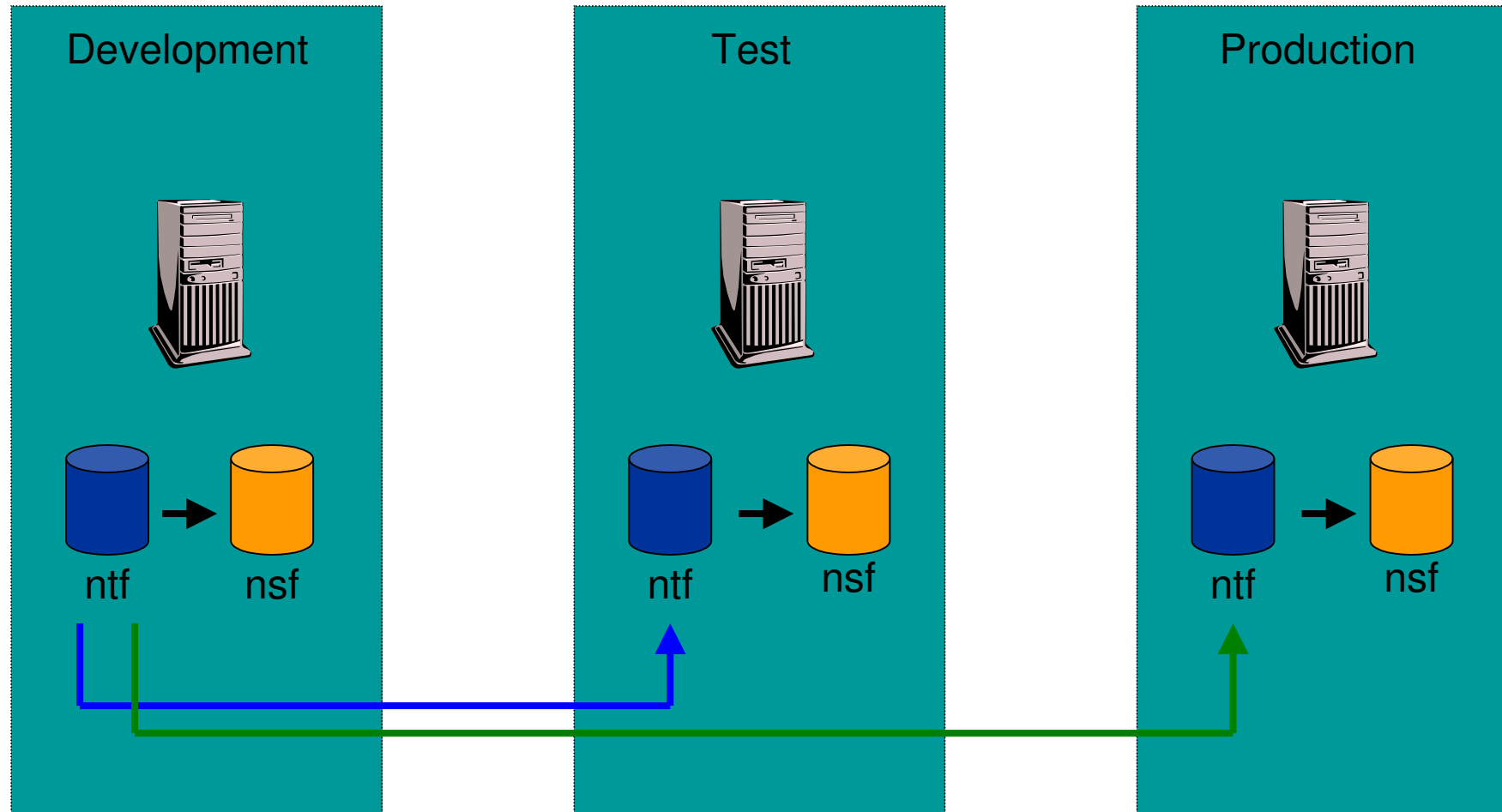
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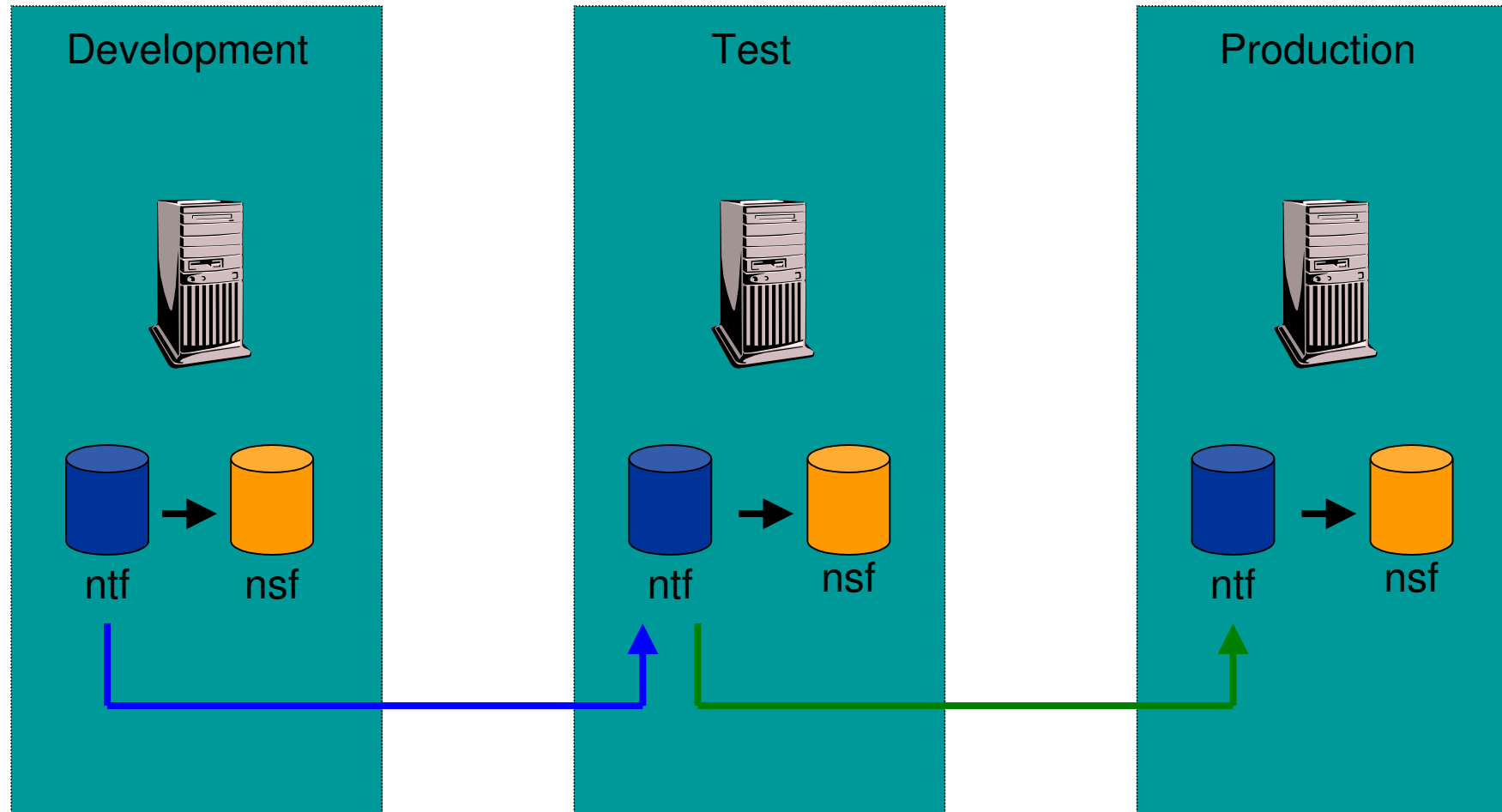
What is the Build Process?

- Database Elevation
- Agent Signing
- ACL Manipulation
- Version Numbering
- Refreshing Designs
- Database Properties Manipulation
- Notification and Audit Trail
- And so on . . .

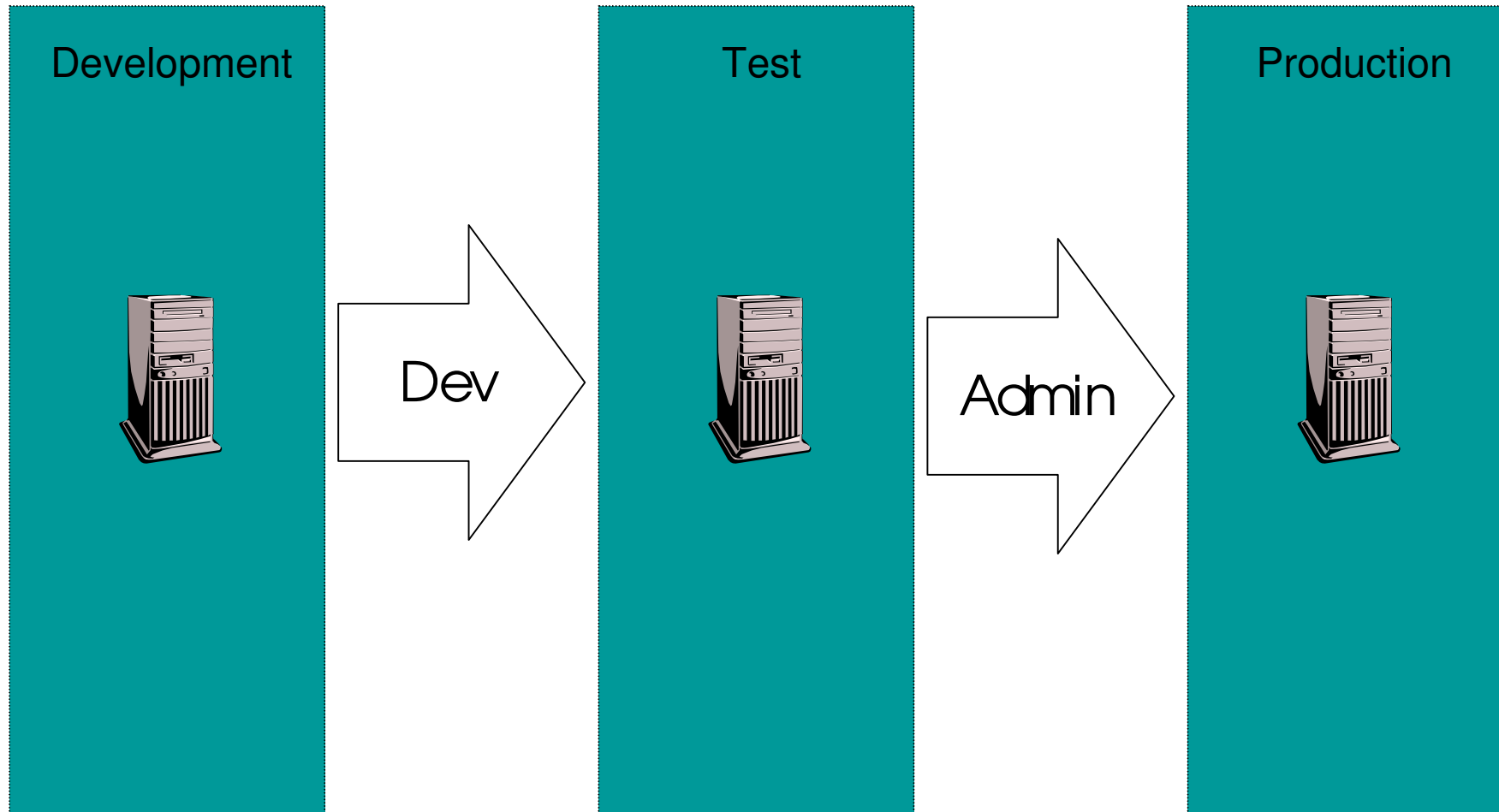
What is the Build Process?



What is the Build Process?



What is the Build Process?



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Why is it Important?

- Provide Order
- Provide Process
- Provide Security
- Provide Audit Trail
- Save Time & Money

Why is it Important?

Pertinent Quote:

Those that don't establish a dependable build cycle will find that entropy begins to take over.

Joe Marasco, Senior Vice President, Rational Software

Why is it Important?

Entropy:

A measure of the disorder of a system. Systems tend to go from a state of order to a state of maximum disorder.

On-line Dictionary of Computing

Why is it Important?

Murphy's Law:

If there are two or more ways to do something, and one of those ways can result in catastrophe, then someone will do it.

Edward A Murphy Jr

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What are the Goals?

- Create a Repeatable Process
- Create an Auditable Process
- Create Automated Process
- Attain User Independence
- Save Time & Money

What are the Goals?

The main function of an automated build process is to provide a way to generate system builds in a repeatable and consistent manner

Microsoft

What are the Goals?

Meskimen's Law:

There's never time to do it right,
but always time to do it again.

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What are the Benefits?

- Fewer Errors in Production
- Decreased Server Downtime
- More Frequent Builds
- Increased Productivity
- Save Time and Money

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How can it be Done?

- Define Process Requirements
- Identify Needed Skills
- Secure Required Resources
- Automate Each Step
- Test, Test and Test Again

Or . . .

Use Teamstudio Build Manager



teamstudio build manager

Teamstudio Build Manager

- Automated
- Self-Documenting
- User Independent
- Auditable

Teamstudio Build Manager

- Promotion
- Signing
- ACL Manipulation
- Design Audit
- Design Refresh
- Logging & Notification



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