

Apache Ant Advance Training

Curriculum 5 Day

Day - 1	Day - 2
• Introduction	Testing with JUnit
 What is Ant? What makes Ant so special? When to use Ant When not to use Ant Alternatives to Ant A First Ant build Defining the first project Step zero: creating the project directory 	 What is testing, and why do it? Introducing the application How to test a program Introducing JUnit The JUnit task: Generating HTML test reports Advanced techniques Best practices
 Step one: verifying the tools are in place Step two: writing your first Ant build file Step three: running your first build Step four: imposing structure Step five: running our program Ant command-line options Examining the final build file Running the build under an IDE 	 Packaging Projects Working with files Introducing mappers Modifying files as you go Preparing to package Creating JAR files

• Understanding Ant Datatypes and Properties

- Preliminaries
- o Introducing datatypes and properties with
- o Paths
- o Filesets
- Selectors
- Additional Ant datatypes
- Properties
- Controlling Ant with properties
- Managing library dependencies
- o Resources: Ants secret data model
- Best practices

- Testing with JAR files
- Creating Zip files
- Packaging for UNIX
- Working with resources

• Executing Programs

- o Running programs under Ant? An introduction
- Running native programs
- Advanced and
- Bulk operations with
- Best practices

Day - 3	Day - 4
Distributing an Application	Beyond Ant? s Core Tasks
 Preparing for distribution 	 The many different categories of Ant tasks
 FTP-based distribution of a packaged application 	 Installing optional tasks
 Email-based distribution of a packaged application 	 Optional tasks in action
 Secure distribution with SSH and SCP 	 Software configuration management under Ant
 HTTP download 	 Using third-party tasks
 Distribution over multiple channels 	 The Ant-contrib tasks
	 Code auditing with Check style
Putting It All Together	
 How to write good build files 	Working with Big Projects
 Building the diary library 	 Master builds: managing large projects
o Adopting Ant	 Controlling child project builds
 Building an existing project under Ant 	 Advanced delegation
	 Inheriting build files through
	o Applying
	 Ant?s macro facilities
	 Writing macros with

Day - 5

• Managing Dependencies

- Introducing Ivy
- Installing Ivy
- o Resolving, reporting, and retrieving
- Working across projects with Ivy

Developing for the Web

- o Developing a web application
- o Building the WAR file
- o Deployment
- What You Can Expect