

# Spring Boot: Efficient Development, Configuration, and Deployment

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LEVERAGING INITIALIZR AND DEVTOOLS FOR EFFICIENT DEVELOPMENT



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# Course Overview

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You know the basics of Spring Boot,  
now how can you be better at it?



**Faster**



**Smarter**



**Easier**



**“Cloudier”**

A large orange rectangle occupies the left side of the slide, serving as a decorative background element.

# Faster

- **Generate project scaffolding using Initializr and your IDE**
- **Spring Boot startup from 10 seconds to 2 during development**

# Smarter

- Learn how `@EnableAutoConfiguration` works
  - Tune or disable to your needs
  - Write your own

Easier

- Streamline the configuration of your application
  - Relaxed bindings
  - YAML
  - Eliminate casting using typesafe `@ConfigurationProperties`
  - Integrate with your IDE

## “Clouder”

- Deploy your Spring Boot apps to the cloud using Docker
- Monitor your app in the cloud or on your servers using built in Actuators
- Write your own custom monitoring Actuators
- Remote debug and development with auto restart

cURL - Download
https://curl.haxx.se/download.html

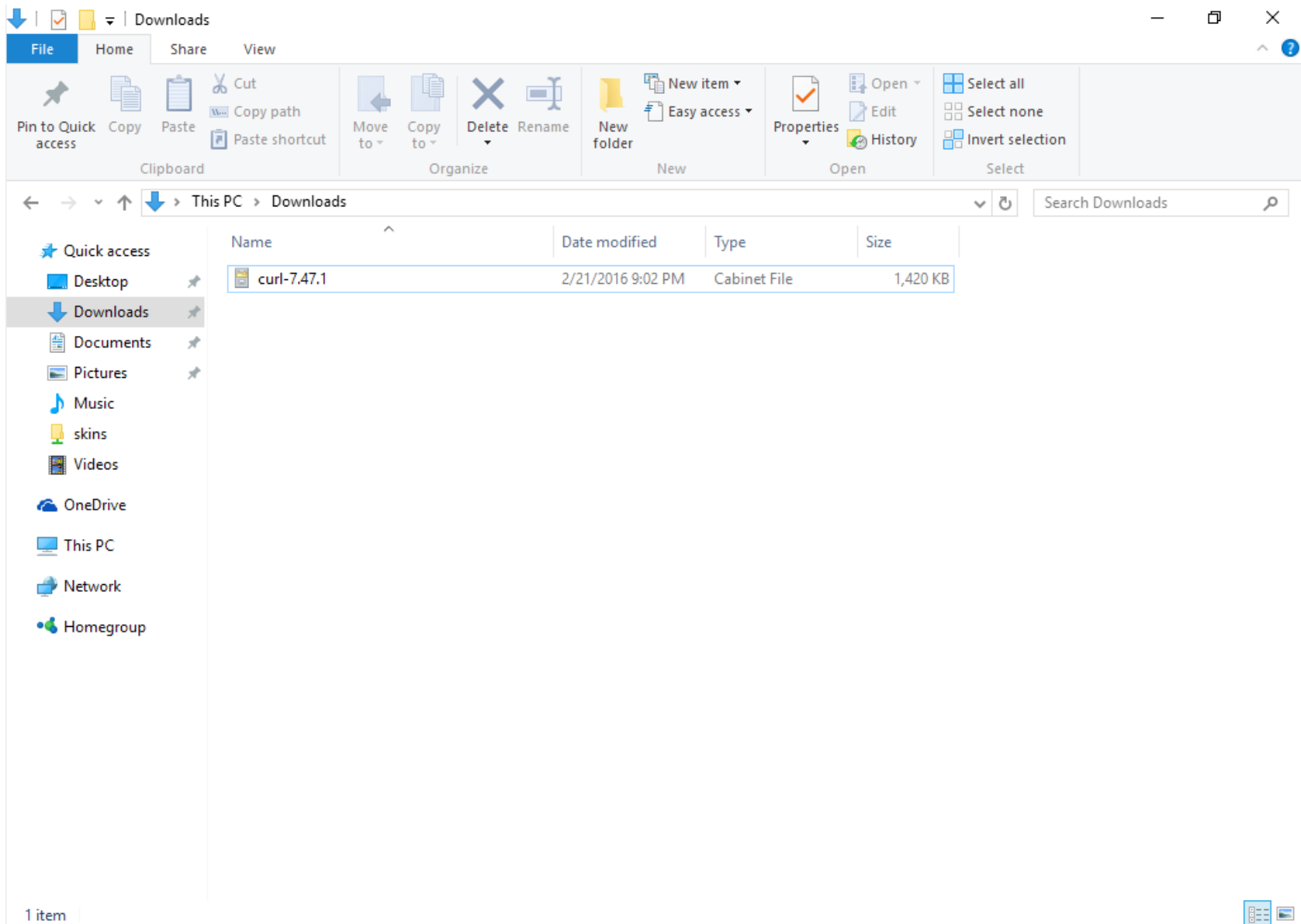
Win32 - cygwin						
cygwin	7.47.0	binary	SSL	Cygwin		272 KB
cygwin	7.47.0	libcurl	SSL	Cygwin		184 KB
Win64 - Generic						
Win64 ia64 zip	7.33.0	binary		Don Luchini		228 KB
Win64 ia64 zip	7.33.0	binary	SSL	Don Luchini		697 KB
Win64 ia64 CAB	7.47.1	binary	SSL	Stefan Kanthak		
Win64 x86_64 CAB	7.47.1	binary	SSL	Stefan Kanthak		
Win64 x86_64 7zip	7.47.1	binary	SSL	Darren Owen		
Win64 x86_64 7zip	7.47.1	binary	SSL SSH	Viktor Szakáts		1.82 MB
Win64 2000/XP x86_64 MSI	7.46.0	binary	SSL SSH	Edward LoPinto		
Win64 2000/XP x86_64 zip	7.46.0	binary	SSL SSH	Edward LoPinto		
Win64 - cygwin						
cygwin	7.47.0	binary	SSL	Cygwin		272 KB
cygwin	7.47.0	libcurl	SSL	Cygwin		175 KB
Win64 - MinGW64						
MinGW64	7.40.0	binary	SSL SSH	Günter Knauf		1.19 MB
MinGW64	7.40.0	devel	SSL SSH	Günter Knauf		2.21 MB
z/OS						
z/OS	7.16.1	binary	SSL	IBM		

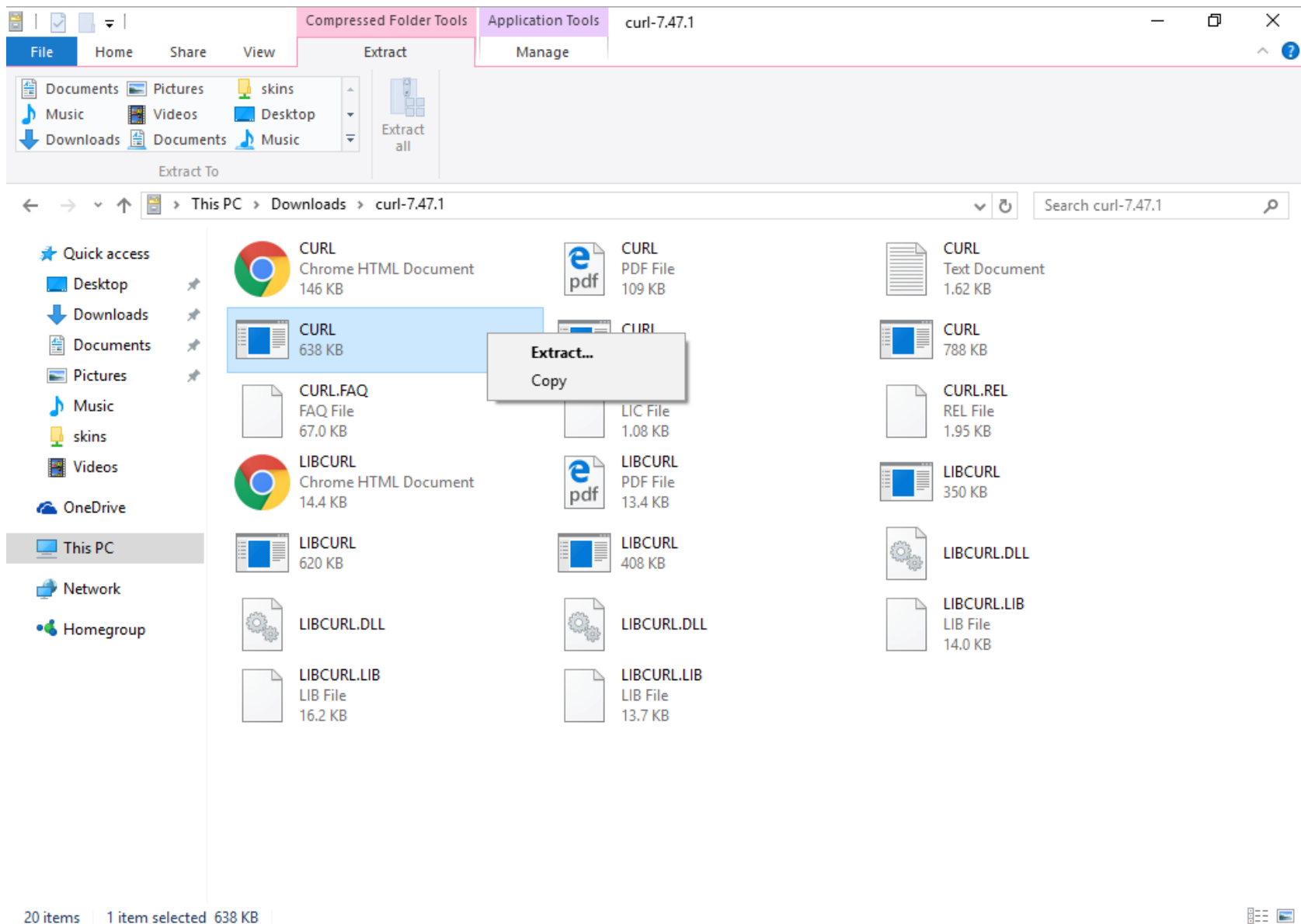
This colour means the packaged version is the latest stable version available (7.47.1)!

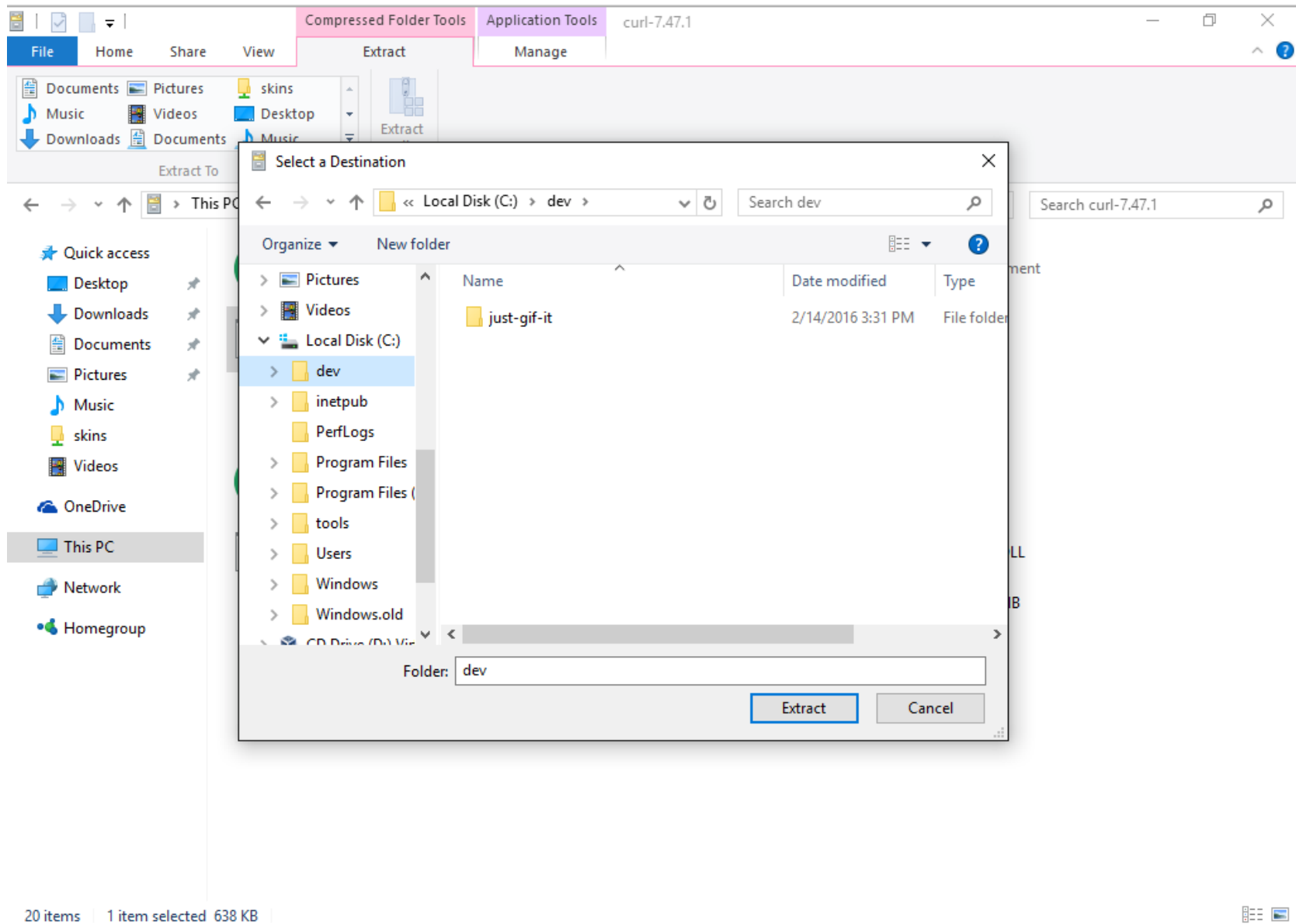
More information on [metalink](#) downloads is available from [www.metalinker.org](http://www.metalinker.org).

If you have newer archives or archives for platforms not already present in this table, we'd like to add them to this table with a pointer to your location. Mail [curl\\_release](mailto:curl_release@haxx.se) and tell us!









```
c:\dev>curl start.spring.io
```



```
:: Spring Initializr :: https://start.spring.io
```

This service generates quickstart projects that can be easily customized. Possible customizations include a project's dependencies, Java version, and build system or build structure. See below for further details.

The services uses a HAL based hypermedia format to expose a set of resources to interact with. If you access this root resource requesting application/json as media type the response will contain the following links:

Rel	Description
gradle-build	Generate a Gradle build file
gradle-project	Generate a Gradle based project archive
maven-build	Generate a Maven pom.xml
maven-project *	Generate a Maven based project archive

The URI templates take a set of parameters to customize the result of a request to the linked resource.

Parameter	Description	Default value
applicationName	application name	DemoApplication
artifactId	project coordinates (infer archive name)	demo
baseDir	base directory to create in the archive	no base dir
bootVersion	spring boot version	1.3.2.RELEASE
dependencies	dependency identifiers (comma-separated)	none
description	project description	Demo project for Spring Boot
groupId	project coordinates	com.example
javaVersion	language level	1.8
language	programming language	java
name	project name (infer application name)	demo

<http://github.com/dustinschultz/just-gif-it>

# Finishing Your Just Gif It Application

1. Extract on top of existing code
2. Run: `mvn clean install`

# Summarizing Our Learning

- **Intro to the demo application**
- **Spring Initializr**
- **Spring Boot support in the IDE**
- **Spring Boot Devtools**