

#### Amtext techzone articles

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## Installing Tomcat 5.5 + OpenLaszlo + Red5 Flash Server on Windows XP

by Ruben Waitz, 7 november 2006

This article explains how to install and run OpenLaszlo Presentation Server, Red5 Flash Server on top of an Apache Tomcat server.

This article will quickly get you started according to the philosophy "experience first, understand later".

OK, let's get started!

Tomcat is a free, *open source* implementation of Java Servlet and JavaServer Pages (jsp) technologies.

OpenLaszlo is a free, *open source* platform for creating zero-install web applications with the user interface capabilities of desktop client software. In fact, it's a free Adobe® Flex Server.

Red5 is a free, *open source* Flash server that supports streaming and recording audio/video, live stream publishing and Flash remoting. Its commercial brother is Adobe® Flash Media Server.

Pick them up, shake them well and put it down. The result is T-O-R and the possibilities are truly amazing!

### Prerequisites

Download the following files:

- JDK 5.0 Update 'xx' (Java SE Development Kit (JDK)) from <http://java.sun.com/javase/downloads>
- tomcat 5.5 from <http://tomcat.apache.org>:
  - > Core (windows service installer)
  - > Administration Web Application
- openlaszlo dev kit (war file) from [www.openlaszlo.org](http://www.openlaszlo.org)
- red5 war file from [www.osflash.org/red5](http://www.osflash.org/red5)

On my system, I ended up with the following files:

```
jdk-1_5_0_09-windows-i586-p.exe  
apache-tomcat-5.5.20.exe  
apache-tomcat-5.5.20-admin.zip  
openlaszlo-3.3.3.war  
red5-0.6rc1.war
```

### Installing JRK + Tomcat 5.5

Estimated time to complete: 5 - 10 minutes

- Perform a standard installation of JDK (next, next... finish)
- Install Apache Tomcat (use the default server port 8080 and remember your admin login credentials)

Test the installation in your browser: <http://localhost:8080>

The last thing we've to do is installing the Admin Web Application for easy Tomcat administration.

- Stop the Tomcat Service (from taskbar)
- Open "apache-tomcat-5.5.20-admin.zip" and drop the folders "conf" and "server" into "C:\Program Files\Apache Software Foundation\Tomcat 5.5\". (Windows warns you about already existing folders, but that's OK. Simply ignore this)

- Start the Tomcat Service again

Test the installation again in your browser (<http://localhost:8080>) by clicking on “Tomcat Manager”.

Please enter your login credentials you’ve thought earlier.

You are logged in now.

Onward....!

## Installing OpenLaszlo

Estimated time to complete: 1 minute

We’re going to install OpenLaszlo from within the Admin Web Application.

Login (again) into the Admin Web Application and click on “Tomcat Manager”. Locate “WAR file to deploy” and use the buttons “Browse...” and “Deploy” to install “openlaszlo-3.3.3.war”.

Test your OpenLaszlo installation by accessing the following URL:

<http://localhost:8080/openlaszlo-3.3.3/>

All right!

Note: if you’re planning to use OpenLaszlo in a live environment use the servlet (openlaszlo-3.3.3-servlet.war) instead of the dev kit. The dev kit contains extras like examples and documentation.

## Installing Red5

Estimated time to complete: 1 minute

Next, we’re going to install Red5 in the same way.

Rename “red5-0.6rc1.war” into “red5.war” to get a nice deployment URL (context path) and deploy it.

Test your Red5 installation by accessing the following URL:

<http://localhost:8080/red5>

Also try this “real” demo: <http://localhost:8080/red5/flvdemo.html>

Done!

## What you’ve done

You’ve completed a successful installation of Tomcat, OpenLaszlo and Red5. The next step is writing an application which makes use of OpenLaszlo and Red5.

In my next article, we’ll create a Laszlo-Red5 application.

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### About Amtex internetdiensten

*Amtex internetdiensten is a hosting company from The Netherlands specialized in hosting ColdFusion applications and other niche technologies.*

*Amtex’ philosophy is to offer professional scalable services based on a mix of open source and commercial products to keep clients’ investments and operational costs low.*