

Installing Multiple Versions of ColdFusion Together

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Online ColdFusion Meetup
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Who Am I?

- ColdFusion Developer for 14 yrs
- Independent consultant for 10 yrs
- Currently a Web Developer for the Free Library of Philadelphia (freelibrary.org)
- Passion for Libraries

Installing Multiple Versions of ColdFusion Together

- Why and How?
- Requirements
- Things you need to know
- Installation Steps
- Configuration
- Managing your Services
- What else you can do

Why and How?

Why

- Try out the new version before committing
- Code in different versions for different projects

How

- ColdFusion has been built on top of Java since version 6
- The multi-server installation separates the Java engine from the ColdFusion server

Requirements

Three things required to run ColdFusion

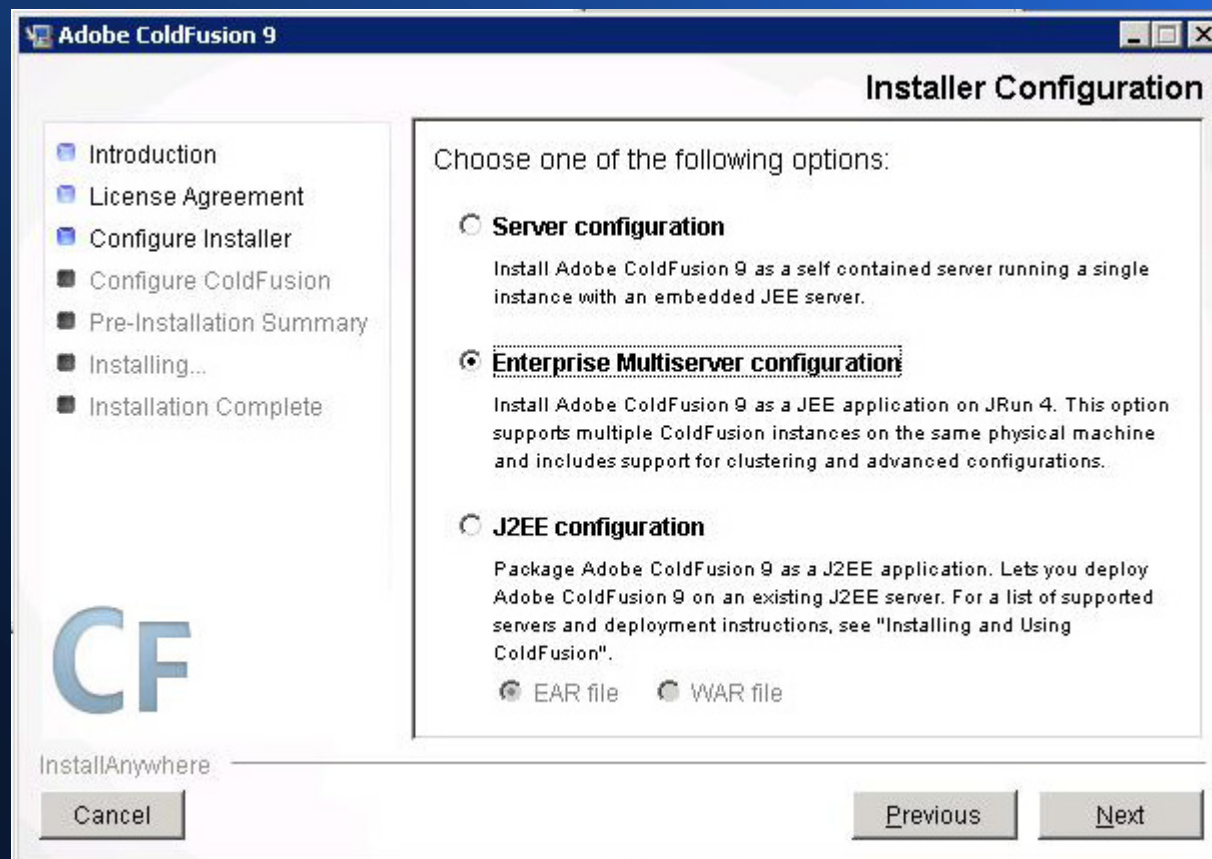
- Web Server (built-in, IIS, Apache)
- Java Engine (JRun, Tomcat, any J2EE engine)
- ColdFusion Instance (built-in, EAR/WAR file)

Things you need to know

- Install the newest version first
 - That way you have the most up to date version of the Java engine
- Older versions should work on the newest version of Java, but aren't guaranteed
- Consult the ColdFusion documentation
 - documentation can be *very* confusing

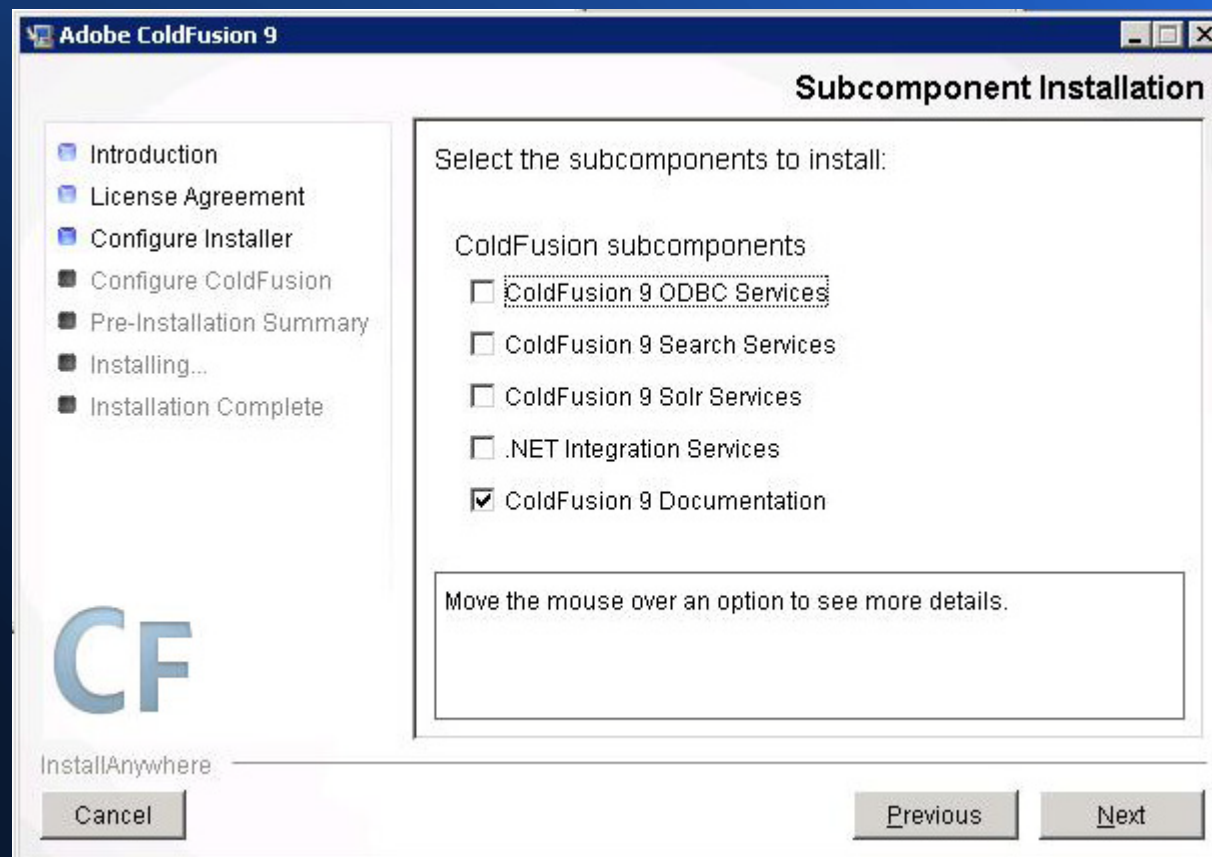
Installation Steps

Install CF9 as Multiserver



Installation Steps

Only install the services you need



Installation Steps

CF9 installation:

- Multiserver is installed under C:\JRun4
- Use the built-in web server.
- Enter an RDS password to connect from an IDE
(*CFBuilder, DW, etc.*)

Finish the installation by Launching the
Configuration Wizard into the CF Admin

Installation Steps

From the CF9 admin, find the Instance Manager

The screenshot shows the Adobe ColdFusion Administrator web interface. The left sidebar contains a navigation menu with categories like Font Management, Document, Settings Summary, DATA & SERVICES, DEBUGGING & LOGGING, SERVER MONITORING, EXTENSIONS, EVENT GATEWAYS, SECURITY, PACKAGING & DEPLOYMENT, and ENTERPRISE MANAGER. The ENTERPRISE MANAGER section is expanded, showing 'Instance Manager' and 'Cluster Manager'. The main content area is titled 'Instance Manager' and includes a description: 'ColdFusion Enterprise lets you create and manage new server instances. These can be created and run locally (on this machine) or they can be remote servers that you can register with clusters.' Below this are two buttons: 'Add New Instance' and 'Register Remote Instance'. A table titled 'Available Servers' displays a list of servers. The table has columns for Actions, Name, Server Directory, HTTP Port, Remote Port, Host, and Cluster. A single server named 'samples' is listed with its directory as 'C:\JRun4\servers\samples', HTTP Port as 8200, Remote Port as 2918, Host as localhost, and Cluster as none. A 'Filter by Cluster' dropdown is set to '<<ALL>>'. A 'Refresh' button is located below the table. The footer contains the copyright notice: 'Copyright © 1995-2009 Adobe Systems, Inc. All rights reserved. U.S. Patents Pending.'







ADOBE® COLDFUSION® ADMINISTRATOR

Font Management
Document
Settings Summary
DATA & SERVICES
Data Sources
ColdFusion Collections
Verity K2 Server
Solr Server
Migrate Verity Collections
Web Services
Flex Integration
DEBUGGING & LOGGING
SERVER MONITORING
EXTENSIONS
EVENT GATEWAYS
SECURITY
PACKAGING & DEPLOYMENT
ENTERPRISE MANAGER
Instance Manager
Cluster Manager

Instance Manager

ColdFusion Enterprise lets you create and manage new server instances. These can be created and run locally (on this machine) or they can be remote servers that you can register with clusters.

Add New Instance Register Remote Instance

Available Servers		Filter by Cluster		<<ALL>>		
Actions	Name	Server Directory	HTTP Port	Remote Port	Host	Cluster
     	samples	C:\JRun4\servers\samples	8200	2918	localhost	none

Refresh

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Installation Steps

Add a new CF9 instance

ColdFusion Enterprise lets you create and manage multiple ColdFusion servers on the same computer

Add New ColdFusion Server

Server Name

Server Directory

Browse Server

Create From EAR/WAR
(optional)

Browse Server

Create Windows Service ☒

Auto Restart Service ☐

Submit

Cancel

Installation Steps

CF9 is complete!

Instance Manager

ColdFusion Enterprise lets you create and manage new server instances. These can be created and run locally (on this machine) or they can be remote servers that you can register with clusters.













Add New Instance

Register Remote Instance

Available Servers

Filter by Cluster

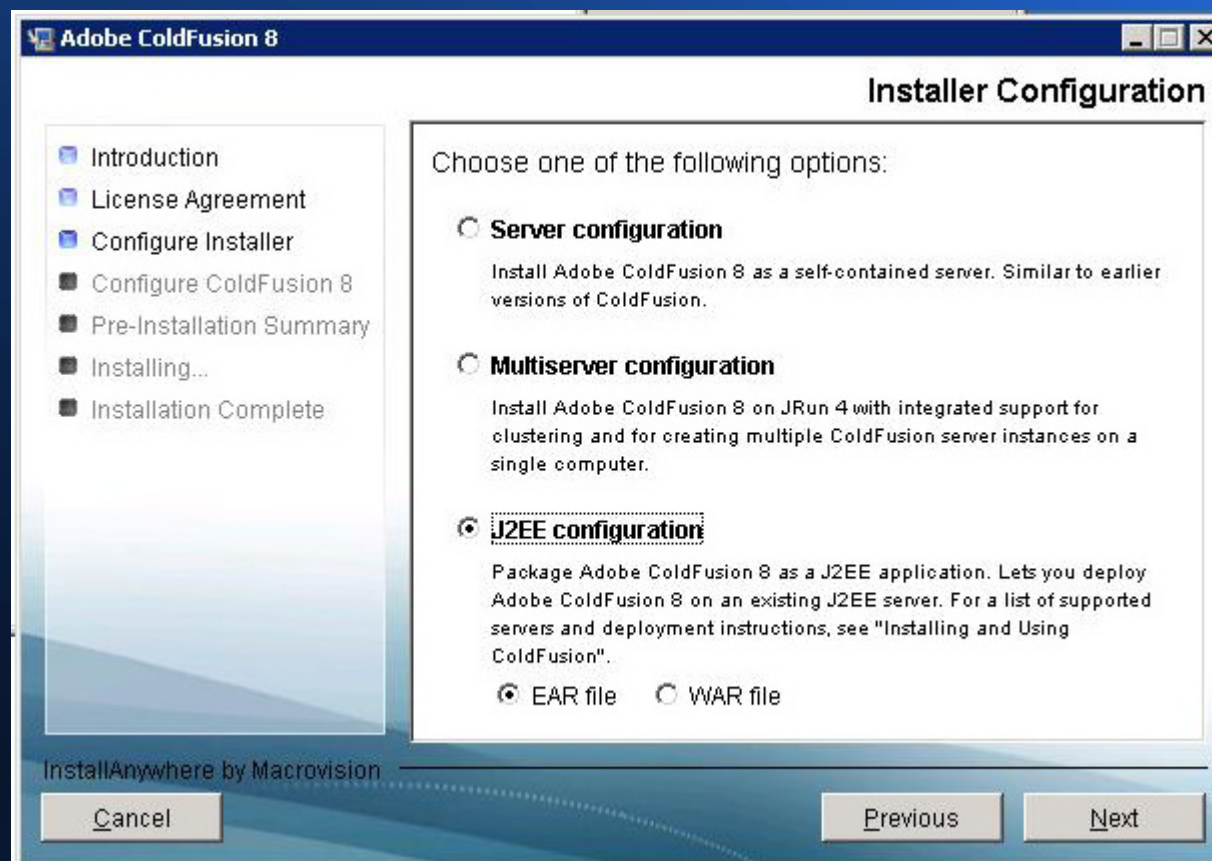
<<ALL>>

Actions	Name	Server Directory	HTTP Port	Remote Port	Host	Cluster
     	cf9	C:\JRun4\servers\cf9	8301	2908	localhost	none
     	samples	C:\JRun4\servers\samples	8200	2918	localhost	none

Refresh

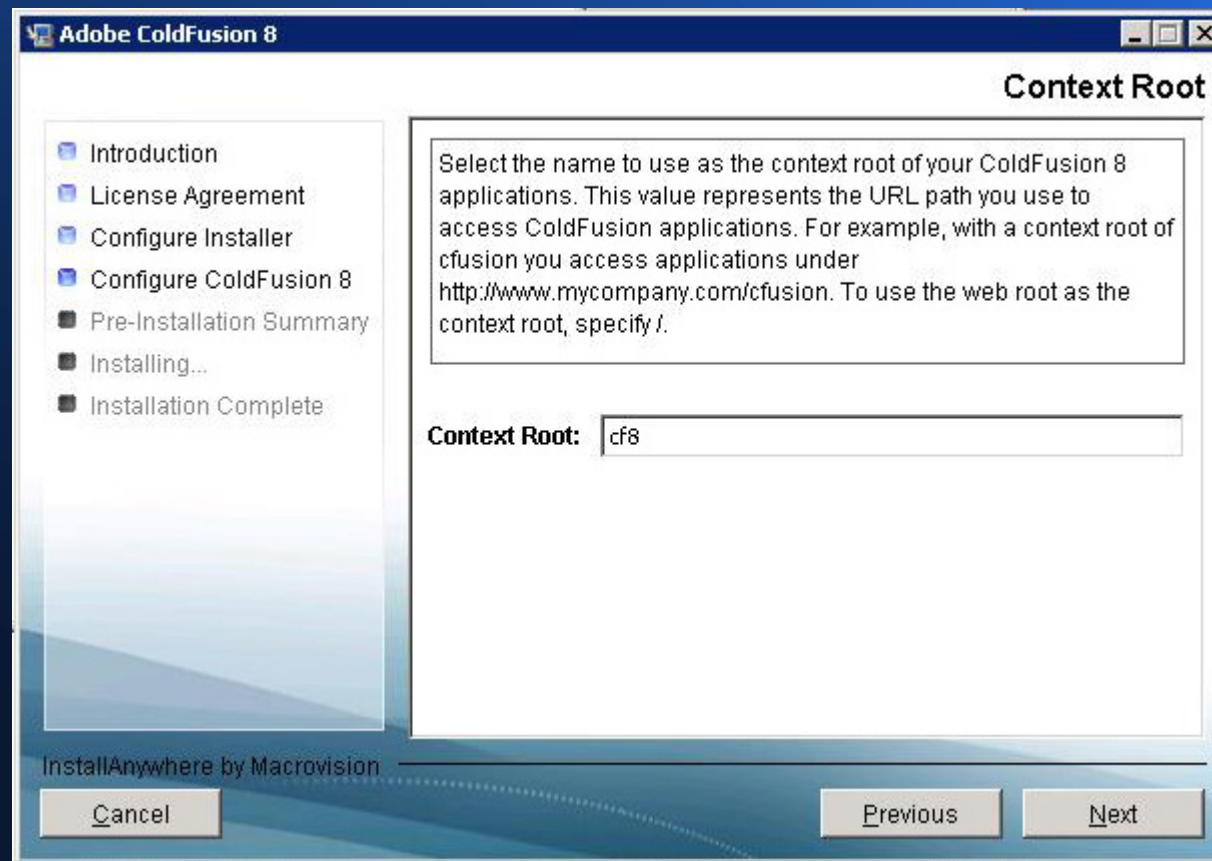
Installation Steps

Install CF8 *(and all other versions)* as a J2EE EAR



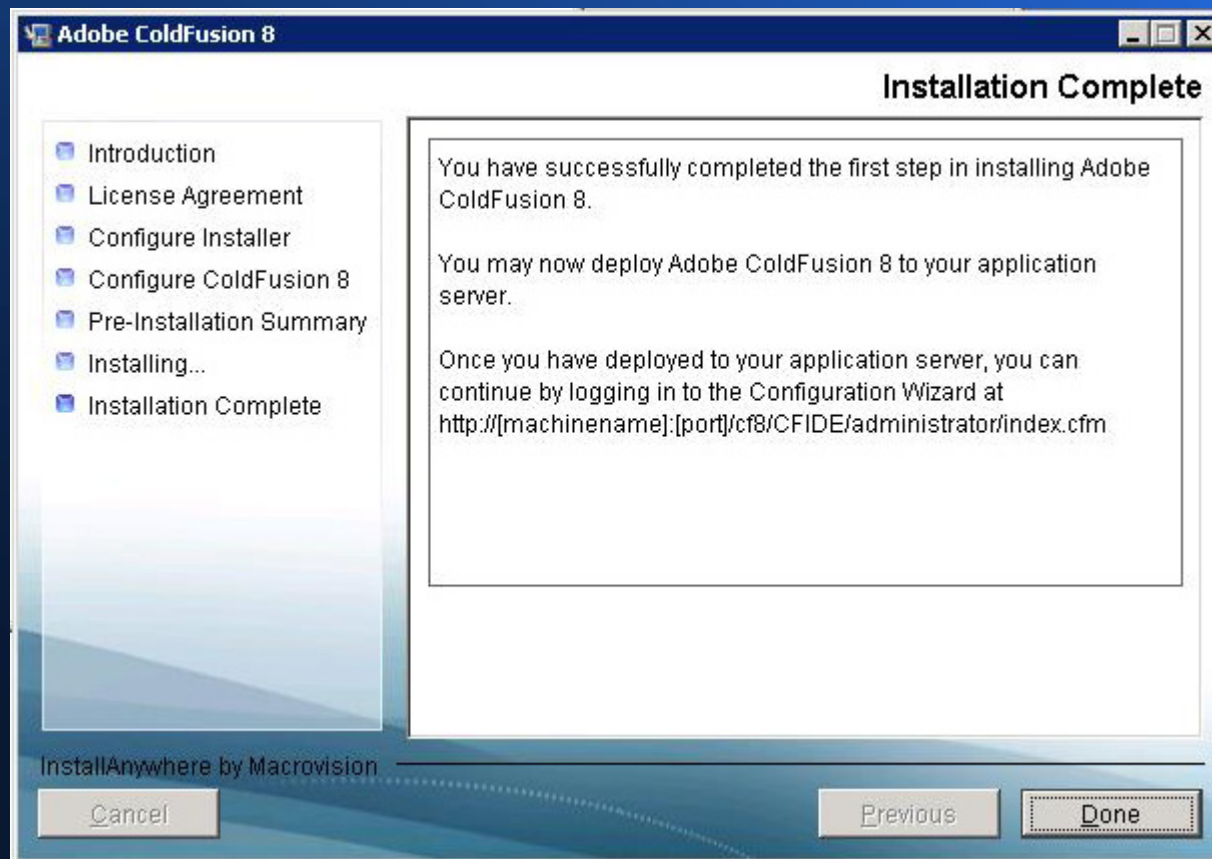
Installation Steps

Don't enter a context root, unless needed



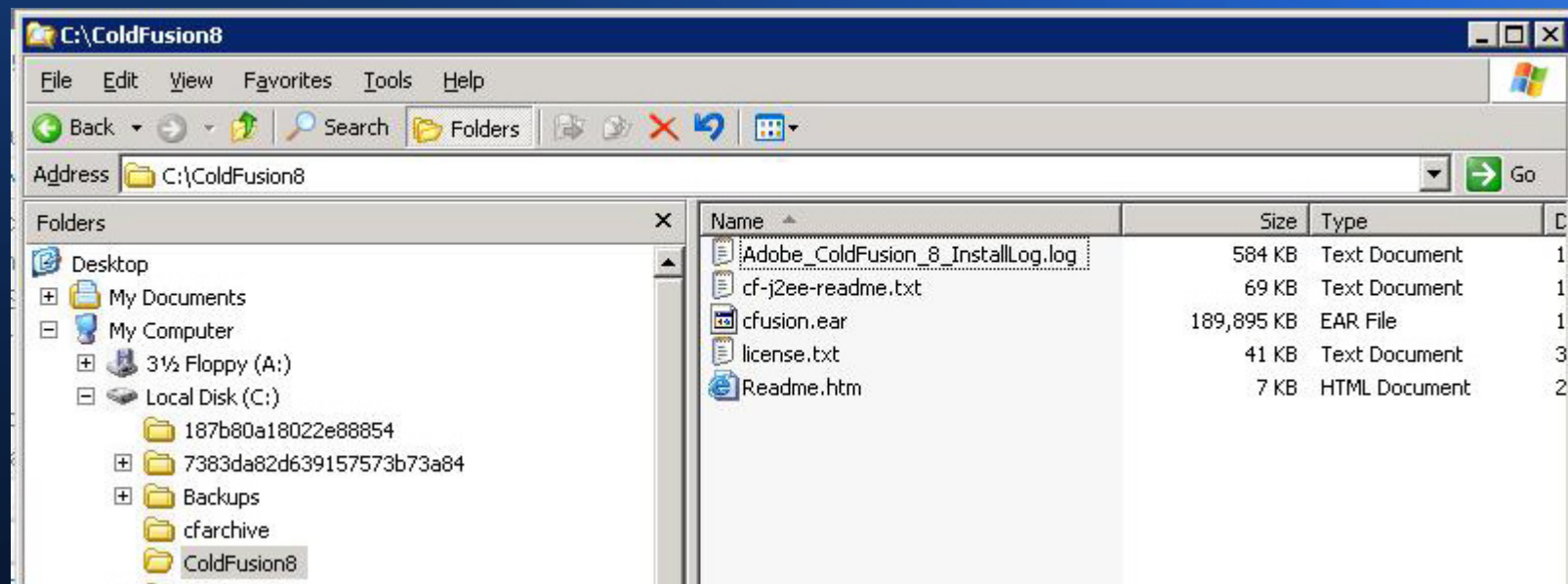
Installation Steps

Select the defaults for the remaining options



Installation Steps

CF8 EAR file is created in C:\ColdFusion8



Installation Steps

From the CF9 root admin, Add another Instance

ColdFusion Enterprise lets you create and manage multiple ColdFusion servers on the same computer

Add New ColdFusion Server

Server Name	<input type="text" value="cf8"/>	
Server Directory	<input type="text" value="C:\JRun4/servers/cf8"/>	<input type="button" value="Browse Server"/>
Create From EAR/WAR (optional)	<input type="text" value="C:\ColdFusion8\cfusion.ear"/>	<input type="button" value="Browse Server"/>
Create Windows Service	<input checked="" type="checkbox"/>	
Auto Restart Service	<input type="checkbox"/>	

Installation Steps

Presto!

Instance Manager

ColdFusion Enterprise lets you create and manage new server instances. These can be created and run locally (on this machine) or they can be remote servers that you can register with clusters.



















Add New Instance

Register Remote Instance

Available Servers

Filter by Cluster

<<ALL>>

Actions	Name	Server Directory	HTTP Port	Remote Port	Host	Cluster
     	cf8	C:\JRun4\servers\cf8	8302	2909	localhost	none
     	cf9	C:\JRun4\servers\cf9	8301	2908	localhost	none
     	samples	C:\JRun4\servers\samples	8200	2918	localhost	none

Refresh

Configuration

Each instance has its own CF admin

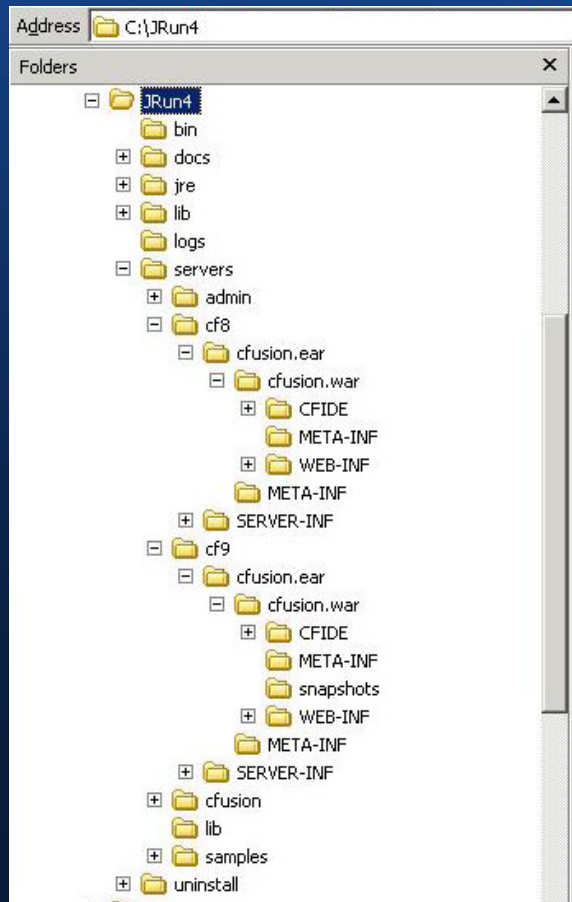
Root: <http://localhost:8300/cfide/administrator/>

CF9: <http://localhost:8301/cfide/administrator/>

CF8*: <http://localhost:8302/cfide/administrator/>

** Instances created from EAR/WAR files *may* have a context root
<http://localhost:8302/{context root}/cfide/administrator/>*

Configuration



- Web root directories are located under `c:\JRun4\servers\{instance name}\cfusion.ear\cfusion.war`

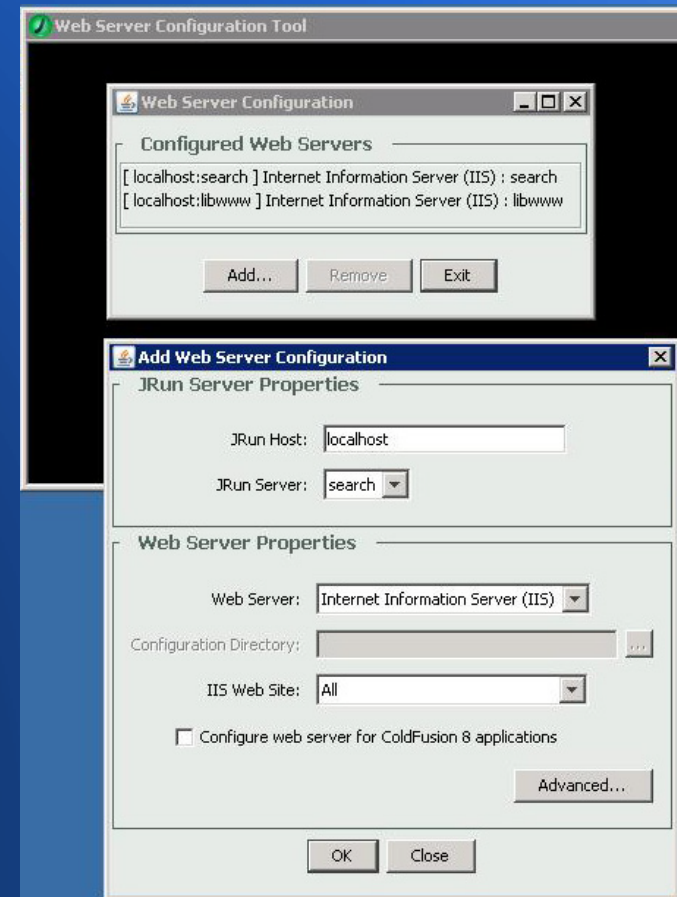
Configuration

Use the Web Server Configuration Tool* to connect the instances to the web server** of your choice.

(IIS, Apache, etc)

* *Read the documentation*

** *Research your server setup*







Managing your Services

Root services (CF9)

 Logical Disk Manager Administrative Service	Configures...		Manual
 Macromedia JRun Admin Server	Runs the a...	Started	Automatic
 Macromedia JRun CFusion Server	Runs the J...	Started	Automatic
 Messenger	Transmits ...		Disabled

Services for CF Instances

Name ▲	Description	Status	Startup Type
 .NET Runtime Optimization Service v2.0.50727_X86	Microsoft ...		Manual
 Adobe ColdFusion 9 AS cf8	J2EE Applic...	Started	Automatic
 Adobe ColdFusion 9 AS cf9	J2EE Applic...	Started	Automatic
 Alerter	Notifies sel...		Disabled

Managing your Services

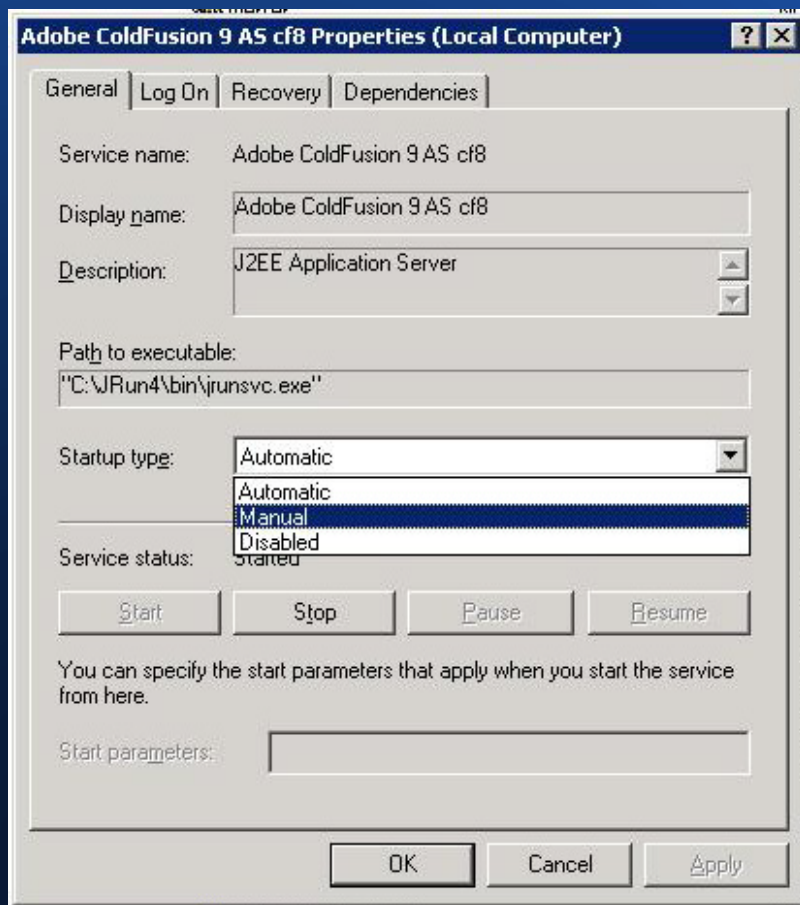
Possible Additional Services:

- ColdFusion # ODBC Agent (*MS Access*)
- ColdFusion # ODBC Server (*MS Access*)
- ColdFusion # Search Server (*Verity*)
- ColdFusion 9 Solr Service

** Verity & Solr can be installed independently at a later time*

<http://www.adobe.com/support/coldfusion/downloads.html>

Managing your Services



- Development:
Set the startup type to 'Manual' for all ColdFusion services
- Production:
Stop the cfusion and admin instances, set to 'Manual'

What else you can do

- Connect CFBuilder to the CF instances
- Install Railo and Open BD as CF instances
- Create WAR files with server configuration settings for rapid deployment
- Upgrade the JVM engine to get the most up to date Java patches
- Tune CF settings to optimize performance

Links

ColdFusion and J2EE application servers: <http://tinyurl.com/ye9jupx>

Using Multiple Server Instances: <http://tinyurl.com/yf7t3kn>

Mike Henke – Multiple ColdFusion Versions and Engines on Adobe ColdFusion with JRUN: <http://tinyurl.com/2bck74e>

Engines:

CF9: <http://www.adobe.com/cfusion/tdrc/index.cfm?product=coldfusion>

CF8: <http://www.adobe.com/cfusion/tdrc/index.cfm?product=coldfusion8>

CF7: <http://www.adobe.com/cfusion/tdrc/index.cfm?product=coldfusion7>

Railo: <http://www.getrailo.org/index.cfm/download/>

Open BlueDragon: <http://www.openbluedragon.org/download.cfm>