ㅇ WildFly 10 is the latest release in a series of JBoss open-source application server offerings

ㅇ 다운로드 싸이트 ([wildfly.org/downloads](http://www.wildfly.org/downloads/))

* **wildfly-10.0.0.Final.zip**
* **wildfly-10.0.0.Final.tar.gz**

ㅇ 요구조권

Java SE 8 or later (we recommend that you use the latest update available)

ㅇ WildFly 10 Directory Structure

|  |  |
| --- | --- |
| **DIRECTORY** | **DESCRIPTION** |
| appclient | Configuration files, deployment content, and writable areas used by the application client container run from this installation. |
| bin | Start up scripts, start up configuration files and various command line utilities like Vault, add-user and Java diagnostic report   available for Unix and Windows environments |
| bin/client | Contains a client jar for use by non-maven based clients. |
| docs/schema | XML schema definition files |
| docs/examples/configs | Example configuration files representing specific use cases |
| domain | Configuration files, deployment content, and writable areas used by the domain mode processes run from this installation. |
| modules | WildFly 10 is based on a modular classloading architecture. The various modules used in the server are stored here. |
| standalone | Configuration files, deployment content, and writable areas used by the single standalone server run from this installation. |
| welcome-content | Default Welcome Page content |

ㅇ **Standalone Directory Structure (**WildFly 10 server instance is an independent process)

|  |  |
| --- | --- |
| **DIRECTORY** | **DESCRIPTION** |
| configuration | Configuration files for the standalone server that runs off of this installation. All configuration information for the running server is located here and is the single place for configuration modifications for the standalone server. |
| data | Persistent information written by the server to survive a restart of the server |
| deployments | End user deployment content can be placed in this directory for automatic detection and deployment of that content into the server's runtime.   NOTE: The server's management API is recommended for installing deployment content. File system based deployment scanning capabilities remain for developer convenience. |
| lib/ext | Location for installed library jars referenced by applications using the Extension-List mechanism |
| log | standalone server log files |
| tmp | location for temporary files written by the server |
| tmp/auth | Special location used to exchange authentication tokens with local clients so they can confirm that they are local to the running AS process |

ㅇ **Domain Directory Structure (**A collection of multiple servers are referred to as a "**domain**".)

|  |  |
| --- | --- |
| **DIRECTORY** | **DESCRIPTION** |
| configuration | Configuration files for the domain and for the Host Controller and any servers running off of this installation. All configuration information for the servers managed wtihin the domain is located here and is the single place for configuration information. |
| content | an internal working area for the Host Controller that controls this installation. This is where it internally stores deployment content. This directory is not meant to be manipulated by end users.  Note that "*domain*" mode does not support deploying content based on scanning a file system. |
| lib/ext | Location for installed library jars referenced by applications using the Extension-List mechanism |
| log | Location where the Host Controller process writes its logs. The Process Controller, a small lightweight process that actually spawns the other Host Controller process and any Application Server processes also writes a log here. |
| servers | Writable area used by each Application Server instance that runs from this installation. Each Application Server instance will have its own subdirectory, created when the server is first started. In each server's subdirectory there will be the following subdirectories:  data -- information written by the server that needs to survive a restart of the server  log -- the server's log files  tmp -- location for temporary files written by the server |
| tmp | location for temporary files written by the server |
| tmp/auth | Special location used to exchange authentication tokens with local clients so they can confirm that they are local to the running AS process. |

ㅇ **Standalone Server Configurations**

* standalone.xml (*default*)
  + Java Enterprise Edition 7 web profile certified configuration with the required technologies plus those noted in the table above.
* standalone-ha.xml
  + Java Enterprise Edition 7 web profile certified configuration with high availability
* standalone-full.xml
  + Java Enterprise Edition 7 full profile certified configuration including all the required EE 7 technologies
* standalone-full-ha.xml
  + Java Enterprise Edition 7 full profile certified configuration with high availability

ㅇ **Domain Server Configurations**

* domain.xml
  + Java Enterprise Edition 7 full and web profiles available with or without high availability

ㅇ **Starting WildFly 10 (standalone 또는 domain에 하나만 실행해야함)**

$JBOSS\_HOME/bin/standalone.sh & (ps –ef | grep jboss시 1개)

$JBOSS\_HOME/bin/standalone.sh --server-config=standalone-full-ha.xml (특정config로실행)

$JBOSS\_HOME/bin/domain.sh & (ps –ef | grep jboss시 5개)

$JBOSS\_HOME/bin /domain.sh --domain-config=my-domain-configuration.xml(특정config로실행)



ㅇ **Managing your WildFly 10**

* web-based Administration Console
* command-line interface

ㅇ **관리 사용자 추가**

[root@localhost bin]# ./add-user.sh

What type of user do you wish to add?

a) Management User (mgmt-users.properties)

b) Application User (application-users.properties)

**(a): a**

Enter the details of the new user to add.

Using realm 'ManagementRealm' as discovered from the existing property files.

Username : **cho**

Password recommendations are listed below. To modify these restrictions edit the add-user.properties configuration file.

- The password should be different from the username

- The password should not be one of the following restricted values {root, admin, administrator}

- The password should contain at least 8 characters, 1 alphabetic character(s), 1 digit(s), 1 non-alphanumeric symbol(s)

Password :

WFLYDM0099: Password should have at least 8 characters!

Are you sure you want to use the password entered yes/no? yes

Re-enter Password :

What groups do you want this user to belong to? (Please enter a comma separated list, or leave blank for none)[ ]:

About to add user 'cho' for realm 'ManagementRealm'

Is this correct yes/no? **yes**

Added user 'cho' to file '/usr/local/src/wildfly-10.0.0.Final/standalone/configuration/mgmt-users.properties'

Added user 'cho' to file '/usr/local/src/wildfly-10.0.0.Final/domain/configuration/mgmt-users.properties'

Added user 'cho' with groups to file '/usr/local/src/wildfly-10.0.0.Final/standalone/configuration/mgmt-groups.properties'

Added user 'cho' with groups to file '/usr/local/src/wildfly-10.0.0.Final/domain/configuration/mgmt-groups.properties'

Is this new user going to be used for one AS process to connect to another AS process?

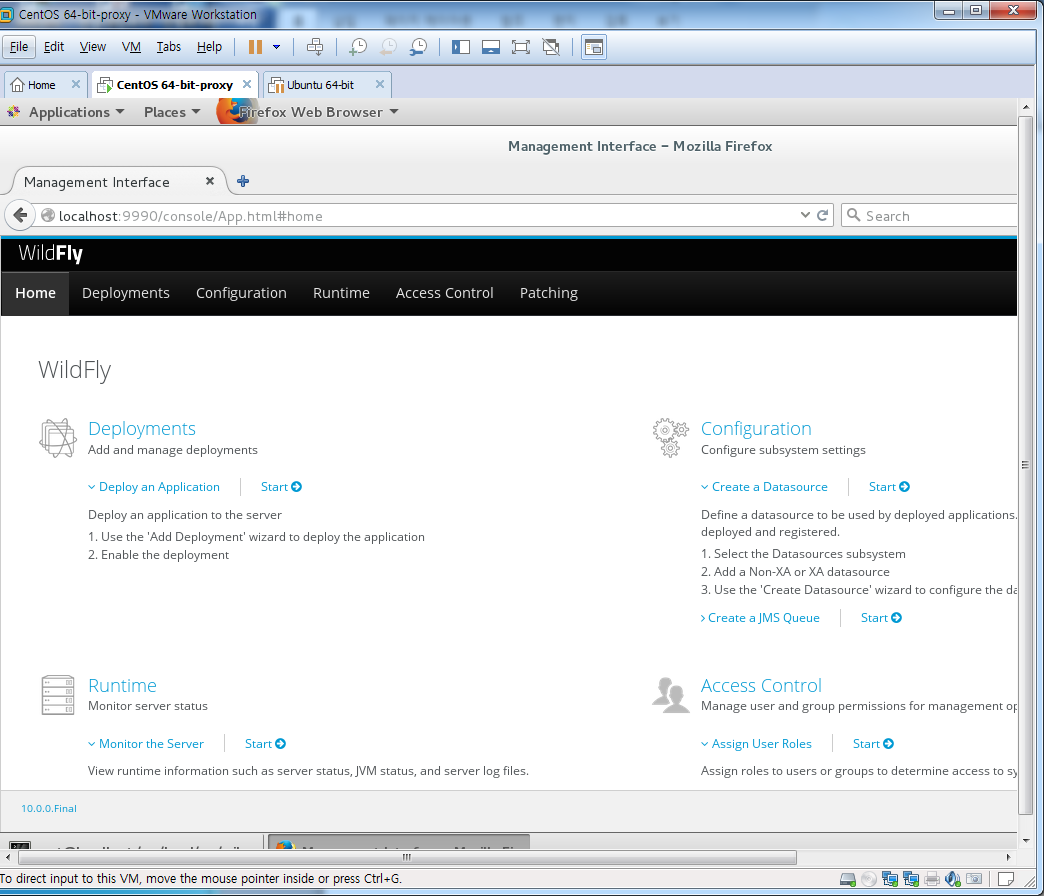
e.g. for a slave host controller connecting to the master or for a Remoting connection for server to server EJB calls.

yes/no? **yes**

To represent the user add the following to the server-identities definition <secret value="Y2hvMTIz" />

cat / cat mgmt-users.properties에 cho라는 관리사용자가 추가됨

ㅇ **관리 web 실행 (**[**http://localhost:9990**](http://localhost:9990)**)**



cat standalone.xml 파일에 관련 포트가 지정됨

<socket-binding name="management-http" interface="management" port="${jboss.management.http.port:9990}"/>

ㅇ **관리 console 실행 ($JBOSS\_HOME/bin/jboss-cli.sh --connect)**

[root@localhost bin]# ./jboss-cli.sh --connect

[standalone@localhost:9990 /] help

Usage:

jboss-cli.sh/jboss-cli.bat [--help] [--version] [--controller=host:port]

[--connect] [--file=file\_path]

[--commands=command\_or\_operation1,command\_or\_operation2...]

[--command=command\_or\_operation]

[--user=username --password=password]

[--no-local-auth]

[--error-on-interact]

[--timeout=timeout]

ㅇ **DataSource 확인**

cat module.xml

<module xmlns="urn:jboss:module:1.3" name="com.h2database.h2">

<resources>

<resource-root path="h2-1.3.173.jar"/>

</resources>

<dependencies>

<module name="javax.api"/>

<module name="javax.transaction.api"/>

<module name="javax.servlet.api" optional="true"/>

</dependencies>

ㅇ **서버 기동에 관한 server.log확인**

tail –f /usr/local/src/wildfly-10.0.0.Final/standalone/log/server.log