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# Web Services and Applications Deployment Guide

# Starting and Testing Workspace Web Edition & Web Services

When the installation is complete, you must start the Workspace Web Edition & Web Services nodes in the following order:

1. Start the synchronization node. This is the node you configured in Step 2 of the [Modifying the Server Settings](#) procedure. For details about the syncNode option, see the description in the [General Configuration](#) options.
2. Start the remaining nodes.

Complete the following steps for each Workspace Web Edition & Web Services node.

## Start of Procedure

1. To start the Web Services node, enter the following command line:

```
[java dir]/java -Xmx4096m -Xms4096m -Djetty.port=[jetty port] -Djetty.logs=[jetty log dir]
-Dconfig.path=[config dir] -Djetty.home=[jetty dir] -Djava.io.tmpdir=/tmp
-Djava.net.preferIPv4Stack=true -jar [jetty dir]/start.jar
--pre=etc/jetty-logging.xml --daemon
```

- [java dir] — The home directory for Java. For example, /usr/bin/java.
- [jetty port] — The Jetty port. For example, 80.
- [jetty log dir] — The log directory for Jetty. For example, /var/log/jetty.
- [config dir] — The path to the Workspace Web Edition & Web Services config directory you created in Step 6 of the [Deploying the Web Application](#) procedure. For example, /opt/jetty/genconfig. Workspace Web Edition & Web Services reads a series of configuration files from the location that is defined by the config.path system property. To start the server, or at the server startup, the config.path is needed; otherwise, the server will not start.
- [jetty dir] — The home directory for Jetty. For example, /opt/jetty.

### Important

The memory allocation -Xmx4096m, -Xms4096m is mandatory for the web services node.

For example, your command line might look like the following:

```
/usr/bin/java -Xmx4096m -Xms4096m -Djetty.port=80 -Djetty.logs=/var/log/jetty
-Dconfig.path=/opt/jetty/genconfig -Djetty.home=/opt/jetty -Djava.io.tmpdir=/tmp
```

```
-Djava.net.preferIPv4Stack=true -jar /opt/jetty/start.jar --pre=etc/jetty-logging.xml --  
daemon
```

2. To verify that Workspace Web Edition & Web Services Server is up and running, type the following URL into a web browser:

```
http://[wnews_host]:[wnews_port]/api/v2/diagnostics/version
```

- [wnews\_host] — The host name or IP address for the Workspace Web Edition & Web Services node.
- [wnews\_port] — The port for the Workspace Web Edition & Web Services node.

For example, the URL might be `http://192.0.2.20:8080/api/v2/diagnostics/version`

If the request is successful, the version will be printed as shown below:

```
{  
  statusCode: 0  
  version: "gws-x.x.xxx.xx"  
}
```

### **End of Procedure**