

Corticon Server:
Web Console Guide

Notices

Copyright agreement

© 2016 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

These materials and all Progress® software products are copyrighted and all rights are reserved by Progress Software Corporation. The information in these materials is subject to change without notice, and Progress Software Corporation assumes no responsibility for any errors that may appear therein. The references in these materials to specific platforms supported are subject to change.

Business Making Progress, Corticon, DataDirect (and design), DataDirect Cloud, DataDirect Connect, DataDirect Connect64, DataDirect XML Converters, DataDirect XQuery, Deliver More Than Expected, Icenium, Kendo UI, Making Software Work Together, NativeScript, OpenEdge, Powered by Progress, Progress, Progress Software Business Making Progress, Progress Software Developers Network, Rollbase, RulesCloud, RulesWorld, SequeLink, Sitefinity (and Design), SpeedScript, Stylus Studio, TeamPulse, Telerik, Telerik (and Design), Test Studio, and WebSpeed are registered trademarks of Progress Software Corporation or one of its affiliates or subsidiaries in the U.S. and/or other countries. AccelEvent, AppsAlive, AppServer, BravePoint, BusinessEdge, DataDirect Spy, DataDirect SupportLink, Future Proof, High Performance Integration, OpenAccess, ProDataSet, Progress Arcade, Progress Profiles, Progress Results, Progress RFID, Progress Software, ProVision, PSE Pro, SectorAlliance, Sitefinity, SmartBrowser, SmartComponent, SmartDataBrowser, SmartDataObjects, SmartDataView, SmartDialog, SmartFolder, SmartFrame, SmartObjects, SmartPanel, SmartQuery, SmartViewer, SmartWindow, WebClient, and Who Makes Progress are trademarks or service marks of Progress Software Corporation and/or its subsidiaries or affiliates in the U.S. and other countries. Java is a registered trademark of Oracle and/or its affiliates. Any other marks contained herein may be trademarks of their respective owners.

Please refer to the Release Notes applicable to the particular Progress product release for any third-party acknowledgements required to be provided in the documentation associated with the Progress product.

Table of Contents

Chapter 1: About Corticon's Web Console.....	7
Chapter 2: User's Guide.....	9
Working with components.....	11
Adding new components.....	11
Navigating component features.....	15
Servers groups and Servers.....	17
Edit Server groups and Servers.....	20
Managing in-process servers.....	21
Decision Services on a Server.....	23
Execution Metrics.....	24
Server Statistics.....	25
Properties.....	26
Environment.....	26
License.....	26
View log.....	27
Download log.....	27
Applications and Decision Services.....	28
Application Details.....	31
Decision Service Details.....	32
Test Execution.....	34
WSDL.....	35
Viewing the Activity Log.....	35
Participating in the Web Console Customer Experience Improvement Program.....	37
Chapter 3: Administrator's Guide.....	39
User management.....	41
Configuring the Activity Log.....	42
Configuring auto logout.....	43
Resetting the administrator password.....	43
Appendix A: Access to Corticon knowledge resources.....	45

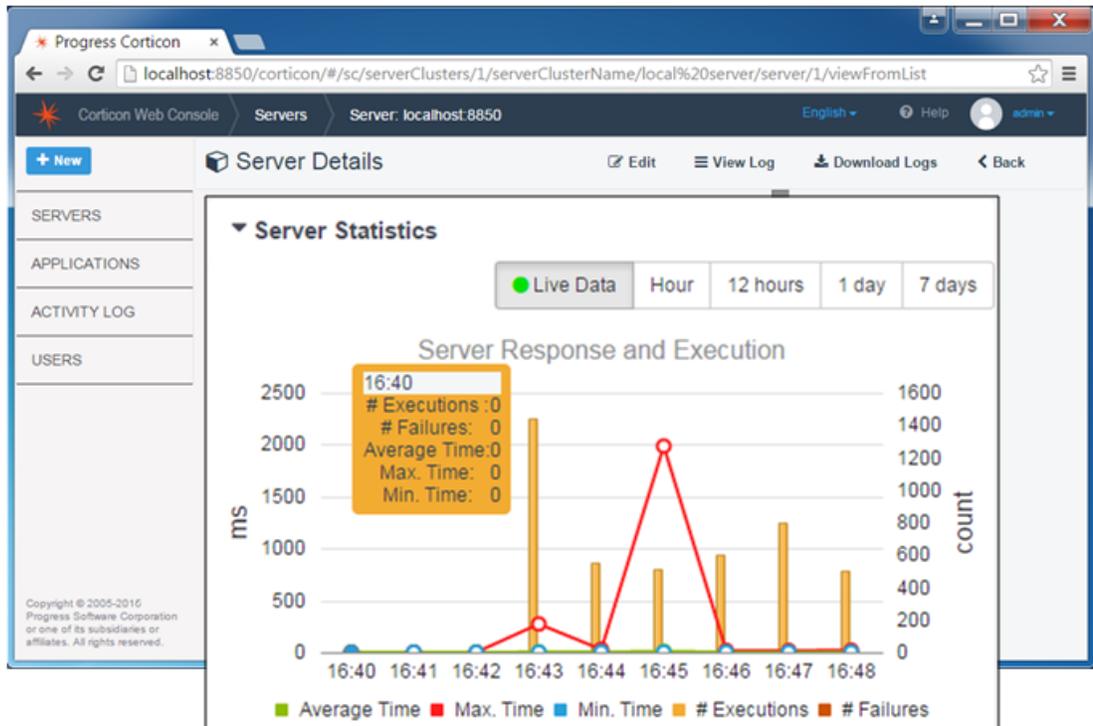
About Corticon's Web Console

Corticon's Web Console provides a central point for administering and monitoring your Java and .NET Corticon Decision Services. Through the console, you can easily deploy an Application (one or more related Decision Services) to a single Corticon server or group of Corticon servers. Once deployed, you can easily monitor the performance of the Decision Services and Corticon servers and view both individual and aggregated metrics. Actions on an Application associated with a Server Group are automatically applied to each server member of the group that is running. For example, if you have a Decision Service managed by an Application which is deployed to a Server Group and add another server to the group, the Decision Service will be automatically deployed to the new server. This helps you scale up or scale down the servers in a deployment to meet demand.

The Web Console is a web application that can be installed in the same application server as the Corticon server for single-server environments or installed separately for multiple-server environments. The choice is yours, depending on the nature of your Corticon deployment. The Web Console maintains configuration information and historical metrics in a local data store. The historical metrics let you see changes in the performance of your Decision Services and Corticon Servers over time.

Corticon's Windows **Start** menu provides a shortcut to **Start Corticon Server**. When the Web Console is installed standalone, this starts just the Web Console. When the Web Console is installed together with the Corticon Server, this commands starts both of them. Then, the shortcut launches your default browser into the Web Console.

What's being monitored and managed? Here is a view of a Server Group with a graph of the responses and executions over a span of a several minutes:



This guide includes a user guide to the features and functions of the Web Console interface, followed by an administrator's guide that goes in depth with architectural features and management functions.

User's Guide

This guide shows you how your browser connects to a running Web Console Server and how you navigate through the user interface to do your tasks. The following topics show the screen basics, creation of new components, and then the features and functions of each component.

Note: If you have not yet installed Corticon 5.5.2 Server with the Web Console component on any network-accessible machine, refer to the *Corticon Installation Guide* for more information.

To connect to a running Web Console Server:

- On any device, in a supported browser, enter the hostname where Web Console is running followed by the port value (typically 8850) and then `/corticon`. For example:

```
http://webconsolehost:8850/corticon
```

- When you are on the machine that hosts the Web Console installation, simply choose **Start > Progress > Corticon 5.5 > Corticon Web Console**

Logging in to the Web Console

Enter your user credentials in the Web Console login page. There are two user roles in the Web Console: User and Administrator. The basic administrative user is `admin` with the default password `admin`. If you are the administrator, you should change the default password soon after you log in. If you are a user, obtain your user credentials from your Web Console administrator.

Screen Tips

When you log in for the first time, you see on screen tips that provide an overview of the Web Console interface.

Press **Esc** or click **Ok...** to close the tips.

Navigation

The general navigation elements of Web Console pages are:

- **Title bar:**
 - The navigation path to the current panel in the Web Console.
 - **English:** The default language is shown. Choose your preferred available language from its drop-down list to view text in that language as well as localized formatting of dates and numbers.
 - **Help:**
 - **Help Contents:** Opens a new tab linked to the online version of this document within the complete Corticon documentation set at <https://documentation.progress.com/output/ua/Corticon>. The online help provides Google Translate that lets you choose to view the text of the documentation in any of dozens of languages. To use this setting, click the 'globe' icon in the documentation website's toolbar, select your preferred language, and click **Translate**.
 - **About:** Version information about the connected Web Console Server.
 - **Community:** Opens a new tab linked to the Progress Corticon community site.
 - **On Screen Tips:** On several panels, this option overlays tips.
- **admin**(the User Name that enabled log in)
 - **Profile:** Lets the user change their password, full name, and email address.
 - **Preferences:** Lets the user maintain their options.
 - **Logout:** Closes the session and logs the user off the Web Console Server.
- **+New** button at the top left enables you to create new Servers, Server Groups, Applications, and -- for Administrators -- new Users.
- **Function pane** on the left takes you to **SERVER** and **APPLICATION** pages where you can add new components or edit existing components. The **ACTIVITY LOG** shows the history of user actions and system events in the Web Console. Administrators also see **USERS** so that they can maintain user records as well as control the auto-logout time for all users on the connected Web Console Server.

Note: Automatic logout - A user gets logged out of their Web Console session when they are inactive for a period of time specified by the Web Console administrator. A warning message is issued several seconds before the Web Console logs out with the opportunity to click **OK** to reset the inactive timeout period.

For details, see the following topics:

- [Working with components](#)
- [Servers groups and Servers](#)
- [Applications and Decision Services](#)
- [Viewing the Activity Log](#)
- [Participating in the Web Console Customer Experience Improvement Program](#)

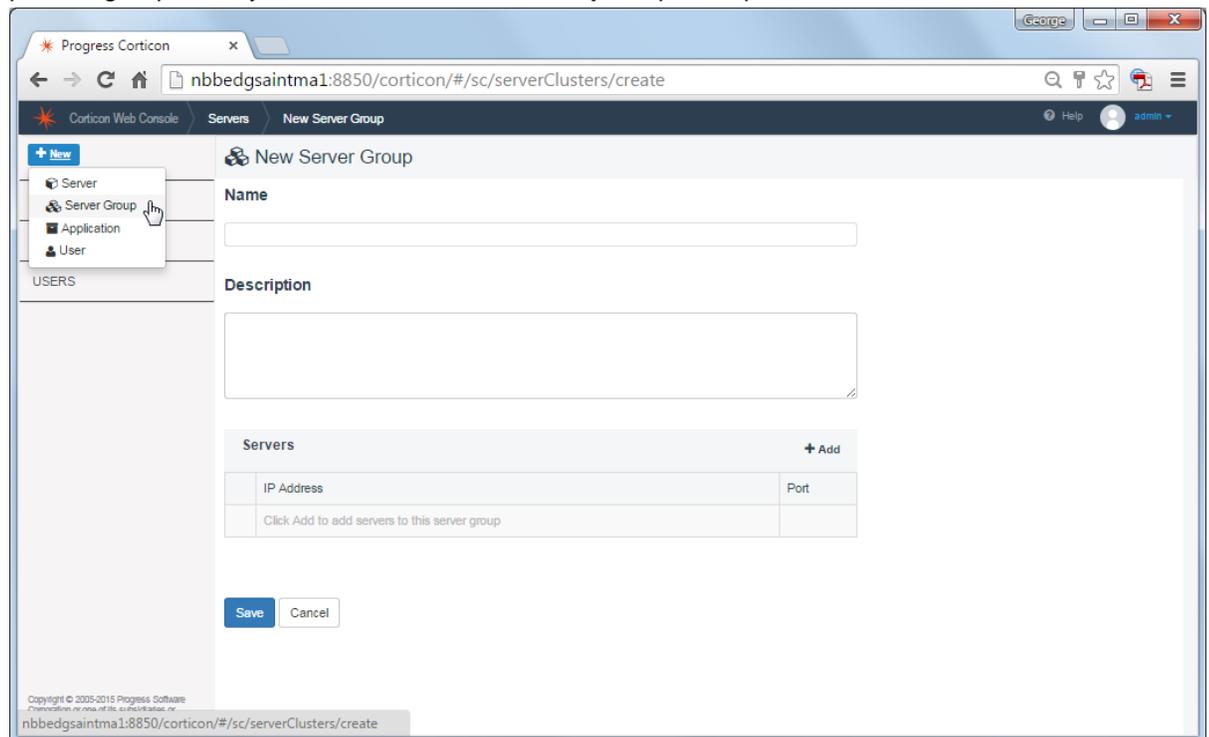
Working with components

The components that you work with in the Web Console are:

- **Server Groups** - A set of licensed physical installations of Corticon Server for Java or Corticon Server for .NET that will have common deployments and monitoring. The members of the group are not typically also defined as individual servers.
- **Servers** - Individual licensed physical installations of Corticon Server for Java or Corticon Server for .NET that will be managed outside a group.
- **Applications** - Collections of Decision Services under common management.
- **Users** - Structure of user credentials that enable access to features of the Web Console.

Adding new components

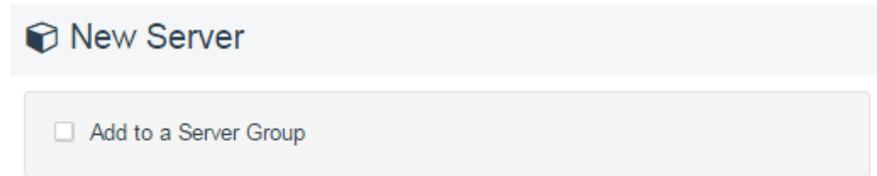
Server groups let you deploy Decision Services defined in Applications, then monitor and configure them, and undeploy them. Server Groups also enable getting and setting server properties on the several servers in the group. As with Servers, each server's hostname or IP address, the port on which it is receiving connections, and its context URL are essential; the group name is required to provide group identity. Click **+New > Server Group** to open its panel:



It is good practice to define Server Groups even for individual servers because a Server resides permanently in a group; it cannot move into or out of a group. When the new Server Group is defined, click **Save**.

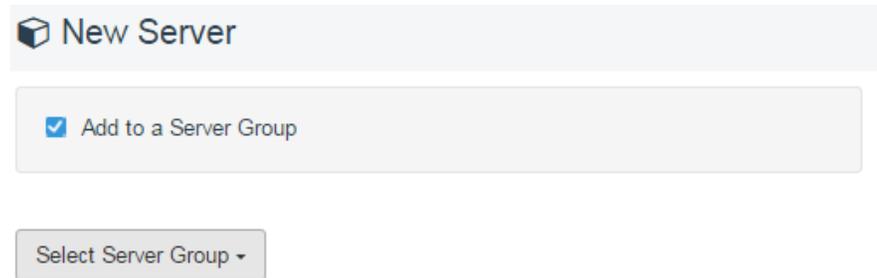
Servers are added through Web Console to enable deployment and monitoring of Decision Services on a single server, and to monitor its performance. Click **+New > Server** to open its panel.

While a standalone server has a name and a description, it does not have a description when it is in a group. Once one or more server groups have been established, the new server dialog offers to add the new server to a group, as shown:



The screenshot shows a dialog box titled "New Server" with a server icon. Below the title bar, there is a checkbox labeled "Add to a Server Group" which is currently unchecked.

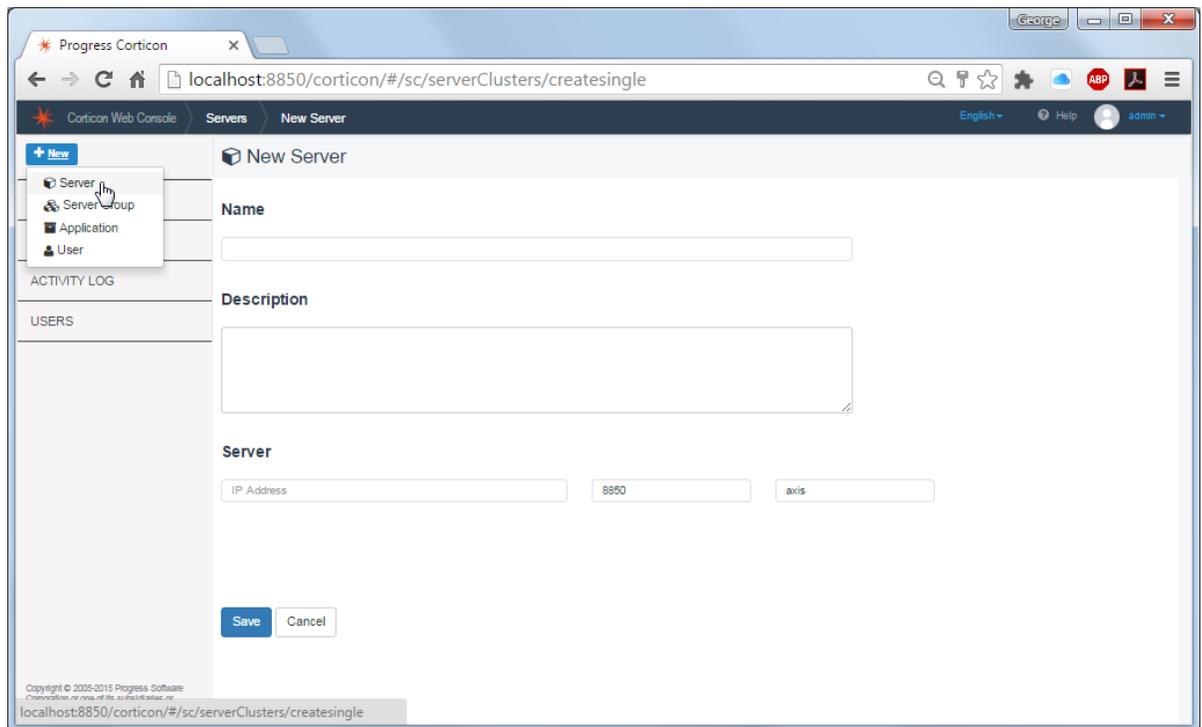
If you choose that option, the **Description** area is removed, and a dropdown list lets you choose the preferred group for the new server.



The screenshot shows the "New Server" dialog with the "Add to a Server Group" checkbox checked. Below this, there is a dropdown menu labeled "Select Server Group" with a downward arrow.

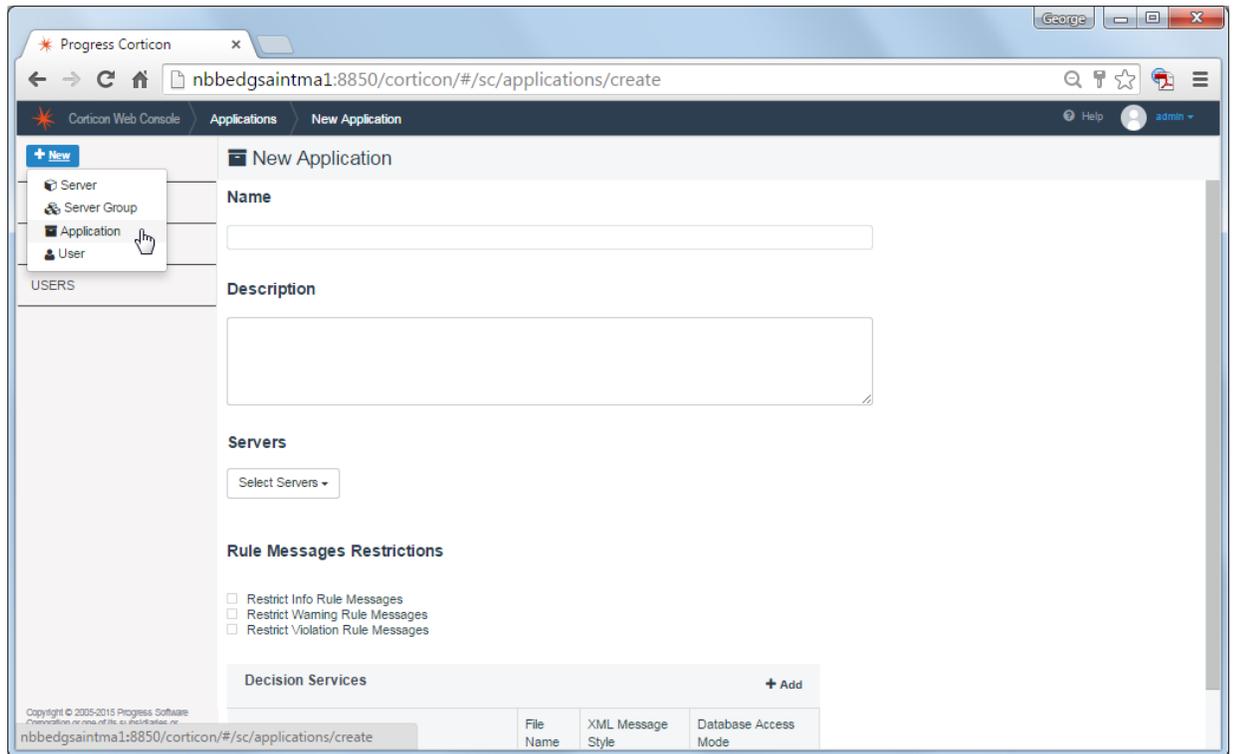
Note: Adding a server -- individually or within a group -- as `localhost` might seem practical during evaluation and testing, but when you access Web Console from a remote machine that has a server installation that you want to add, you might find that references to `localhost` are distracting as it is not *this* localhost. It is a good practice to always use DNS-resolvable hostnames or static IP addresses.

The **Server** entry areas let you enter the hostname and the port where the default port, **8850**, is assumed. In addition, the default context URL, **axis**, can be replaced with a preferred context URL, such as **CorticonProduction**. This functionality -- renaming a default `axis.war` file to a preferred `.war` name -- enables multiple server deployments to use the same host port and supporting resources.



The server's hostname or IP address, the port on which it is receiving connections, and its context URL are required. When the new Server is defined, click **Save**.

Applications are how Decision Services are grouped, and then deployed to servers that are participating in the Application. See [Applications and Decision Services](#) on page 28 for more information. Click **+New > Application** to open its panel.



Note: User management is an administrative function. See [User management](#) on page 41 for more information.

Navigating component features

The Web Console lets you access and maintain each component's information. The following series of screens shows navigation around servers. When you click **SERVERS** in the left panel, the servers and server groups are listed in card view. The preview pane on the right displays a summary of all the servers managed by the Web Console. In this example, there are two Server Groups and one independent Server:

The screenshot shows the 'Servers' page in Card View. The left sidebar has a '+ New' button and a menu with 'SERVERS', 'APPLICATIONS', 'ACTIVITY LOG', and 'USERS'. The main content area has '+ New Server' and '+ New Server Group' buttons. Three server group cards are displayed, each with a description, average time, execution count, and a checkbox. The right sidebar shows a 'Total' summary with icons for Server Group (2) and Server (1), and a 'Recent Activity' section with three entries: 'Server Group "Dev Integration Tests" successfully modified', 'Connection to "localhost:9850/axis" established', and 'Server Group "Dev Integration Tests" successfully modified'.

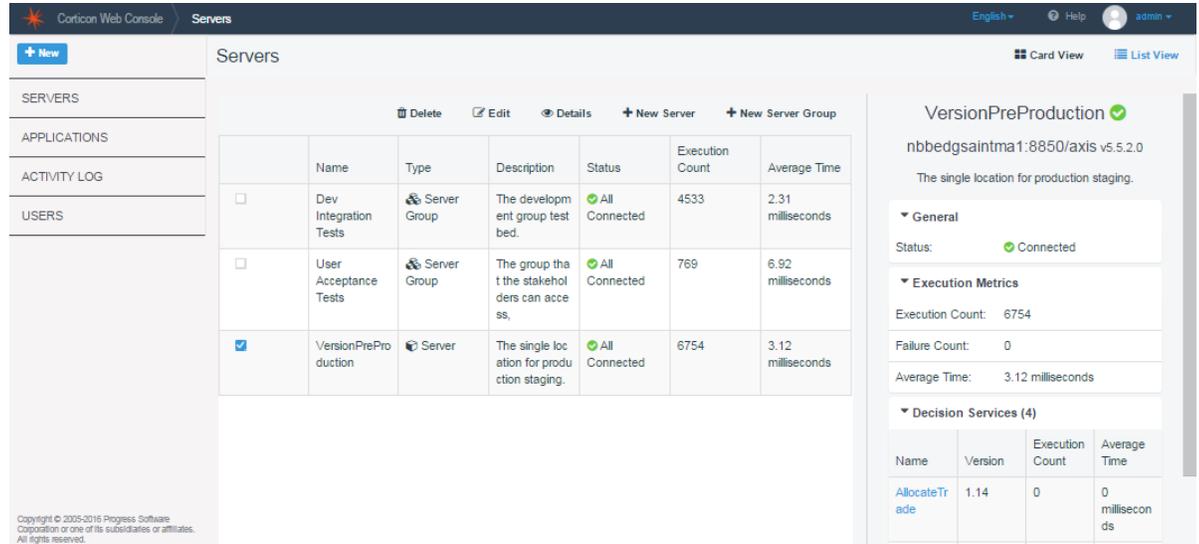
Clicking on a server or server group selects it, showing a blue checkbox. The preview pane is now populated with information about that component, and the component navigation options show that, for a server group, you can delete it, edit it, or show its details.

The screenshot shows the 'Servers' page with 'Dev Integration Tests' selected. The main area has '+ Delete', '+ Edit', and '+ Details' buttons. The 'Dev Integration Tests' card has a blue checkbox. The right sidebar shows the 'Dev Integration Tests' details page. The 'General' section shows 'Status: All Connected'. The 'Execution Metrics' section shows 'Execution Count: 4533', 'Failure Count: 0', and 'Average Time: 2.31 milliseconds'. The 'Servers' section shows a table with 4 columns: IP Address, Port, Context URL, and Status.

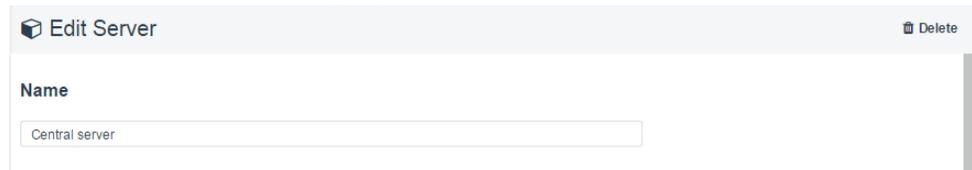
IP Address	Port	Context URL	Status
localhost	8850	axis	Connected
localhost	9850	axis	Connected

Double-click on a card (or a row in the list view) opens the component's Details page. Use Ctrl-click to select multiple cards (or rows in the list view.)

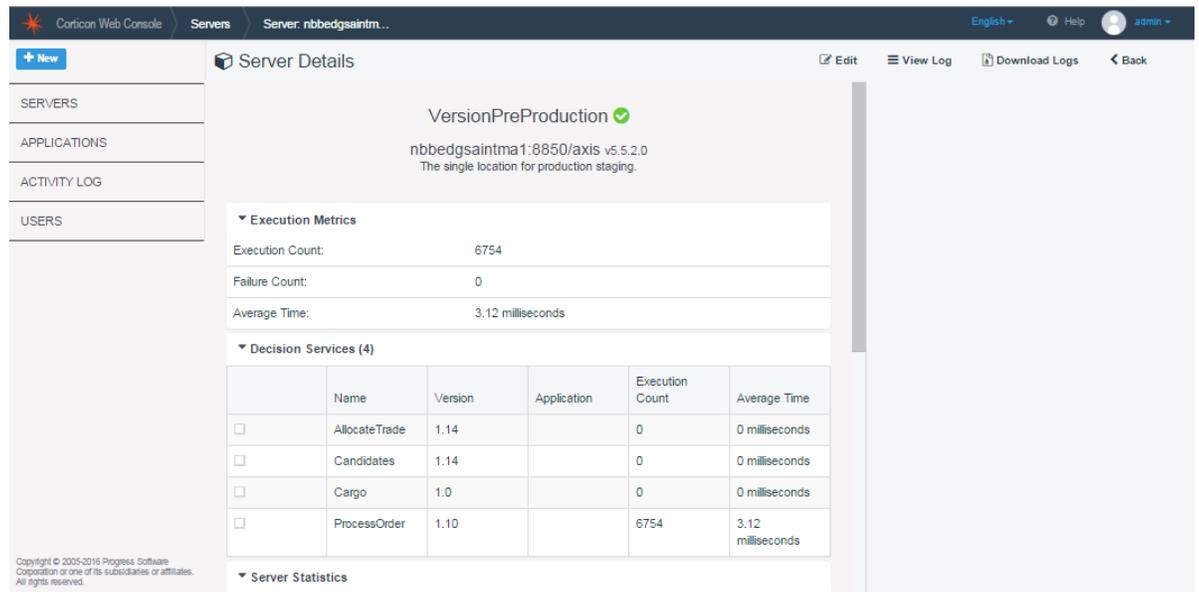
Clicking **List View** changes the layout to a table rather than cards:



Clicking **Edit** opens the edit dialog where you can make changes, save them, or cancel. You can delete the server or server group from here:



Save or close the edit dialog, and then click **Details** to display the deployment and operational information about the selected component.



For a Server, you can also choose to **View Log**, or **Download Logs** to retrieve the logging data from the server location:

Servers groups and Servers

The Web Console allows you to manage and monitor accessible Corticon servers. The servers can be managed individually or in groups. Server Groups allow you to monitor an aggregate information from all members of a group of servers. Every Web Console Application must be associated with a server or a Server group. This concept enables a new server installation, when added to a server group on a Web Console server, to have the group's Decision Services deployed in exactly the same version as its peers.

Independent Servers offer information for just the single server:

Server Details Edit View Log Download Logs Back

VersionPreProduction ✓

nbbedgsaintma1:8850/axis v5.5.2.0
The single location for production staging.

Execution Metrics

Execution Count:	10208
Failure Count:	0
Average Time:	3.23 milliseconds

Decision Services (5)

	Name	Version	Application	Execution Count	Average Time
<input type="checkbox"/>	AllocateTrade	1.14		0	0 milliseconds
<input type="checkbox"/>	Candidates	1.14		0	0 milliseconds
<input type="checkbox"/>	Cargo	1.0		0	0 milliseconds
<input type="checkbox"/>	iSample_policy_pricing	0.41	Life Insurance	3453	3.44 milliseconds
<input type="checkbox"/>	ProcessOrder	1.10		6755	3.13 milliseconds

Server Statistics

Properties

Environment

License

You can access the server's Properties, Environment, and License information.

On a server group, metrics and statistics on a server group are an aggregate of the information from all servers in the group. This view shows a server group and its categories of information:

 Server Group Details

Dev Integration Tests 

The development group testbed.

▼ Servers

	IP Address	Port	Context URL	Status
<input type="checkbox"/>	localhost	8850	axis	 Connected
<input type="checkbox"/>	localhost	9850	axis	 Connected
<input type="checkbox"/>	nbbedgsaintma1	9850	axis	 Connected

▼ Execution Metrics

Execution Count:	11832
Failure Count:	0
Average Time:	2.41 milliseconds

▼ Decision Services (5)

Name	Version	Execution Count	Average Time	Deployed on
ProcessOrder	1.10	10707	2.40 ms	localhost/axis:8850 localhost/axis:9850 nbbedgsaintma1/axis:9850
Candidates	1.14	0	0 ms	localhost/axis:8850 localhost/axis:9850 nbbedgsaintma1/axis:9850
Cargo	1.0	0	0 ms	localhost/axis:8850 localhost/axis:9850 nbbedgsaintma1/axis:9850
AllocateTrade	1.14	0	0 ms	localhost/axis:8850 localhost/axis:9850 nbbedgsaintma1/axis:9850
iSample_policy_pricing	0.41	1125	2.46 ms	localhost/axis:8850 localhost/axis:9850

► Server Group Statistics

Independent Servers offer similar information for just the single server:

The screenshot displays the 'Server Details' interface for a server named 'VersionPreProduction'. At the top, there are navigation options: 'Edit', 'View Log', 'Download Logs', and 'Back'. Below the server name, the version 'nbbdgsaintma1:8850/axis v5.5.2.0' is shown, along with a description: 'The single location for production staging.' The main content area is divided into several sections:

- Execution Metrics:** A table showing 'Execution Count: 10208', 'Failure Count: 0', and 'Average Time: 3.23 milliseconds'.
- Decision Services (5):** A table listing services with columns for Name, Version, Application, Execution Count, and Average Time.
- Server Statistics:** A section with a right-pointing arrow.
- Properties:** A section with a right-pointing arrow.
- Environment:** A section with a right-pointing arrow.
- License:** A section with a right-pointing arrow.

	Name	Version	Application	Execution Count	Average Time
<input type="checkbox"/>	AllocateTrade	1.14		0	0 milliseconds
<input type="checkbox"/>	Candidates	1.14		0	0 milliseconds
<input type="checkbox"/>	Cargo	1.0		0	0 milliseconds
<input type="checkbox"/>	iSample_policy_pricing	0.41	Life Insurance	3453	3.44 milliseconds
<input type="checkbox"/>	ProcessOrder	1.10		6755	3.13 milliseconds

You can drill down to each member server to configure that server's Properties, Environment, and License. The next topics cover each of these.

Edit Server groups and Servers

After adding a Server, when you select Edit, you can change its characteristics:

What you can edit on a Server record:

- **Name**
- **Description**
- **Server** hostname/IP address, port, and context URL
- **Log level** - The log level on the selected server. The default level is INFO. When you change the level and save the edits, it is immediately applied to that server without stopping and restarting the server. The logs promptly reflect the changed level of detail.

Log Level

- **Monitoring** - Determines whether the statistics from this server are gathered by the Web Console and stored for later analysis.
- **License File** - Copies the selected `CcLicense.jar` (or its preferred name) from the machine where the browser is connected to the Web Console (or a network-accessible location) to the `CcServerSandbox` on the machine hosting this server.

Managing in-process servers

You can manage in-process deployments of Corticon Servers to view performance metrics and manage Decision Services that are running in an in-process Corticon Server. By default, in-process Corticon Servers cannot be managed by the Web Console. To enable this you need to modify your code where you instantiate the Corticon Server as follows:

```
CcServerFactory.getCcServer(true)
```

Specifying `true` instructs Corticon that the `CcServer` is to allow a Web Console to connect to it.

The default port and logging values are read from the `CcServer` properties file, and can be overridden by adding lines to a Java server's `brms.properties` with your preferred values:

```
com.corticon.server.embed.managementPort=9850  
com.corticon.server.embed.managementWebLogDirectory=%CORTICON_WORK_DIR%/logs  
com.corticon.server.embed.managementWebLogLevel=FINE
```

or by editing a .NET server's `[CORTICON_HOME]\Server.NET\samples\conf\CcServer.properties` file.

Try it!

The following examples let you experience the management feature as implemented in our samples.

- In a Java server installation, launch the Java in-process server test script, `[CORTICON_HOME]/Server/bin/testServer.bat`.
- In a .NET server installation, launch the .NET in-process test executable, `[CORTICON_HOME]\Server.NET\samples\bin\Corticon-API-Inprocess-Test.exe`
- Connect your browser to a Web Console, and then create a Server Group that includes the in-process server on port 9850. When you click refresh, the in-process server shows that it is managed through the port you specified, as shown:

Server Group Details

In-Process Servers ✔

Demonstration of managing a Corticon in-process server.

▼ Servers

	IP Address	Port	Context URL	Status
<input type="checkbox"/>	localhost	9850	axis	✔ Connected

▼ Execution Metrics

Execution Count:	10453
Failure Count:	0
Average Time:	2.38 milliseconds

▼ Decision Services (4)

Name	Version	Execution Count	Average Time	Deployed on
ProcessOrder	1.10	10453	2.38 ms	localhost/axis:9850
Candidates	1.14	0	0 ms	localhost/axis:9850
Cargo	1.0	0	0 ms	localhost/axis:9850
AllocateTrade	1.14	0	0 ms	localhost/axis:9850

▼ Server Group Statistics

● Live Data Hour 12 hours 1 day 7 days

Servers Response and Execution

Time	Average Time (ms)	Max. Time (ms)	Min. Time (ms)	# Executions	# Failures
9:13	~450	~700	~0	~2000	0
9:14	~380	~0	~0	~2000	0
9:15	2	30	1	3912	0
9:16	~350	~0	~0	~2000	0

Decision Services on a Server

The Server page displays a list of Decision Services that are deployed on it. This includes:

- Managed Decision Services that are defined in Applications in the Web Console and then deployed to the Server. These Decision Services provide a link to the Application as shown in the image below. Deploying Decision Services through Applications is discussed in the topic: [Applications and Decision Services](#) on page 28.
- Unmanaged Decision Services that are deployed through a CDD file.

When you select a Decision Service on this page, you can view its information in the preview pane on the right and perform the following operations on it:

- [Decision Service Details](#) on page 32
- [Application Details](#) on page 31
- [Test Execution](#) on page 34
- [WSDL](#) on page 35

Additionally, you can undeploy Decision Services by selecting the Decision Service and clicking **Undeploy**. Performing this operation on a managed Decision Service takes you to the Application details page, which has options to remove individual Decision Services or undeploy the Application altogether.

Note: In the Web Console, you cannot undeploy a Decision Service that was deployed using a CDD file.

▼ Decision Services (5)

	Name	Version	Application	Execution Count	Average Time
<input type="checkbox"/>	AllocateTrade	1.14		0	0 milliseconds
<input type="checkbox"/>	Candidates	1.14		0	0 milliseconds
<input type="checkbox"/>	Cargo	1.0		0	0 milliseconds
<input type="checkbox"/>	iSample_policy_pricing	0.41	Life Insurance	3453	3.44 milliseconds
<input type="checkbox"/>	ProcessOrder	1.10		6755	3.13 milliseconds

For a Server Group, the Web Console does not allow the same server actions yet it does enable links to servers where each Decision Service is deployed:

▼ Decision Services (5)				
Name	Version	Execution Count	Average Time	Deployed on
ProcessOrder	1.10	748	3.77 ms	localhost/axis:8850 localhost/axis:9850
Candidates	1.14	0	0 ms	localhost/axis:8850 localhost/axis:9850
Cargo	1.0	0	0 ms	localhost/axis:8850 localhost/axis:9850
AllocateTrade	1.14	0	0 ms	localhost/axis:8850 localhost/axis:9850
iSample_policy_pricing	0.41	548	2.08 ms	localhost/axis:8850 localhost/axis:9850

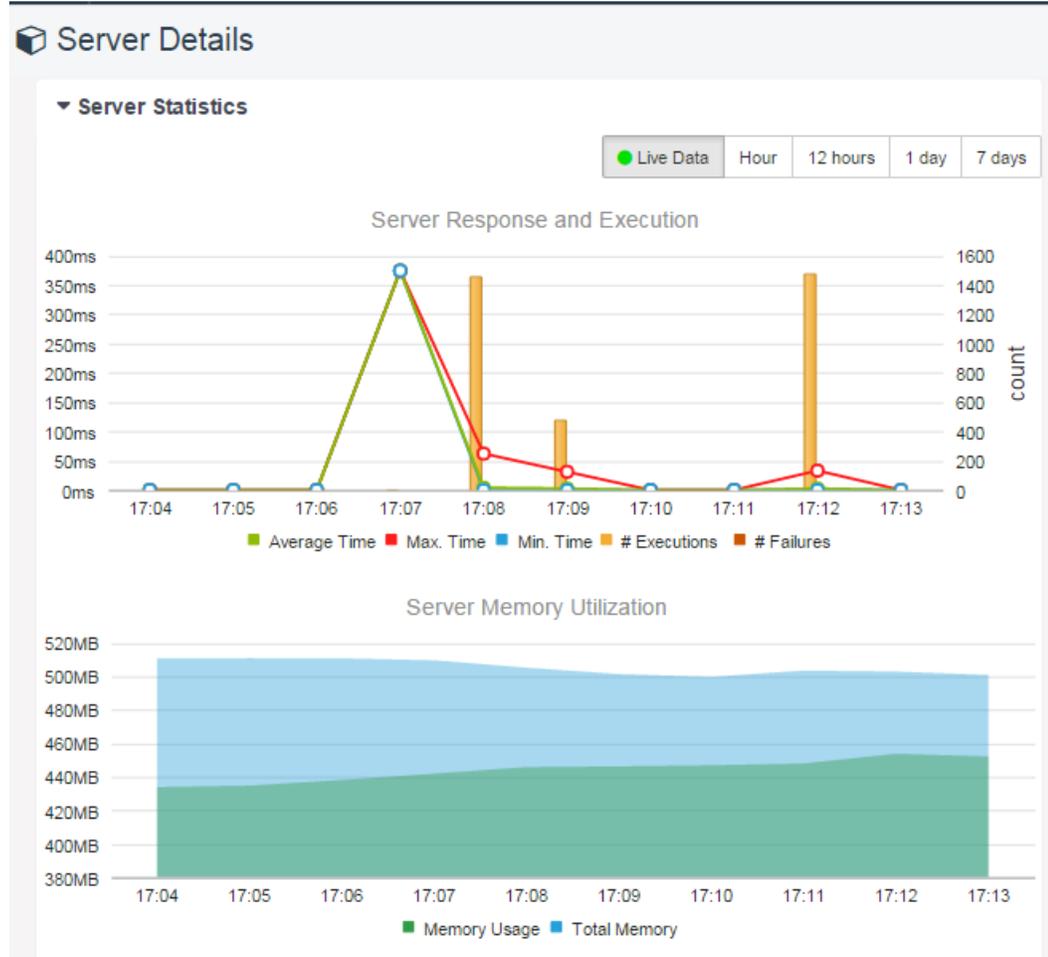
Execution Metrics

Execution metrics are a simple table of the count of all request executions on the selected server, the count of failures, and the average execution time. The average time is average execution time for execution of all the Decision Services on this server.

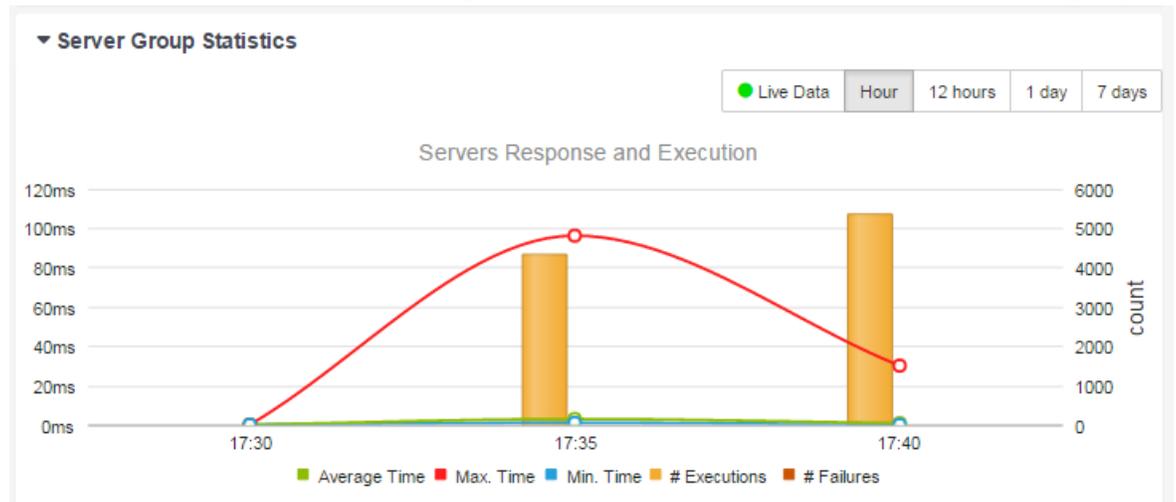
▼ Execution Metrics	
Execution Count:	13115
Failure Count:	0
Average Time:	2.15 ms

Server Statistics

For the selected Server, shows live or historical data for executions and memory utilization:



When the current selection is a server group, the data is compiled for all the servers in the group:



Properties

A Server's Properties lists several key properties of the server, from its point-of-view:

▼ Properties	
Maintenance Service Enabled	Yes
Maintenance Service Interval	30000
Monitoring Service Enabled	Yes
Autoload Directory	C:/_55x_install_dir/work_dir/Server/cdd
Sandbox Directory	C:/_55x_install_dir/work_dir/Server/SER/CcServerSandbox

Environment

A Server's Environment lists several key properties of the machine that is running the server:

▼ Environment	
Java Version	1.7.0_05
Java Vendor	Oracle Corporation
Operating System	Windows 7
Operating System Version	6.1
Architecture	amd64
Number Of Cores	4
Maximum Memory	1002 MB
Total Memory	509 MB
Free Memory	141 MB

License

License information shows the location of the Corticon license that the server is using, as well as essential information about that license:

▼ License	
License Path	C:/_55x_install_dir/work_dir/Server/pas/server/webapps/axis/WEB-INF/lib/CcLicense.jar!/CcLicense.lic
Licensed To	Evaluation
License Deactivation Date	Sep 1, 2016
License Database Access	No

The license file that enabled the server to run is typically updated only when a new license has been provided that changes the expiration and enabled features for that server.

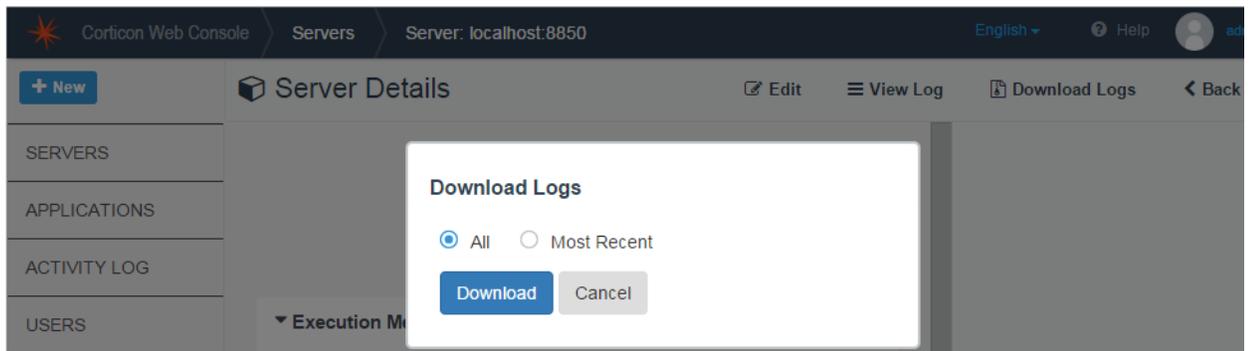
View log

Servers lets you access the tail of the current `CcServer.log` file that the server is using:

Log nbbedsaintma1:8850/axis				
Timestamp	Level	Logger	Marker	Message
Jan 21, 2016 1:07:59 PM	INFO	Cc	DIAGNOSTIC	id=1453399679787,ds=iSample_policy_pricing.0.41,ec=3453,aex=3.4422241529105126,awt=0.2953953084274544,fc=0
Jan 21, 2016 1:07:59 PM	INFO	Cc	DIAGNOSTIC	id=1453399679787,ds=Cargo.1.0,ec=0,aex=0.0,awt=0.0,fc=0
Jan 21, 2016 1:07:59 PM	INFO	Cc	DIAGNOSTIC	id=1453399679787,ds=ProcessOrder.1.10,ec=6755,aex=3.1268689859363437,awt=0.22427831236121393,fc=0
Jan 21, 2016 1:07:59 PM	INFO	Cc	DIAGNOSTIC	id=1453399679787,shp=509.5625,shp=370.14383697509766,sex=0,seq=0,sec=10208,sfc=0,saex=3.2335423197492164,sawt=0.2483346394984326
Jan 21, 2016 1:07:59 PM	INFO	Cc	DIAGNOSTIC	id=1453399679787,ds=AllocateTrade.1.14,ec=0,aex=0.0,awt=0.0,fc=0
Jan 21, 2016 1:07:59 PM	INFO	Cc	DIAGNOSTIC	id=1453399679787,ds=Candidates.1.14,ec=0,aex=0.0,awt=0.0,fc=0
Jan 21, 2016 1:07:29 PM	INFO	Cc	DIAGNOSTIC	id=1453399649785,ds=AllocateTrade.1.14,ec=0,aex=0.0,awt=0.0,fc=0
Jan 21, 2016 1:07:29 PM	INFO	Cc	DIAGNOSTIC	id=1453399649785,ds=ProcessOrder.1.10,ec=6755,aex=3.1268689859363437,awt=0.22427831236121393,fc=0
Jan 21, 2016 1:07:29 PM	INFO	Cc	DIAGNOSTIC	id=1453399649785,ds=iSample_policy_pricing.0.41,ec=3453,aex=3.4422241529105126,awt=0.2953953084274544,fc=0
Jan 21, 2016 1:07:29 PM	INFO	Cc	DIAGNOSTIC	id=1453399649785,ds=Candidates.1.14,ec=0,aex=0.0,awt=0.0,fc=0
Jan 21, 2016 1:07:29 PM	INFO	Cc	DIAGNOSTIC	id=1453399649785,ds=Cargo.1.0,ec=0,aex=0.0,awt=0.0,fc=0
Jan 21, 2016 1:07:29 PM	INFO	Cc	DIAGNOSTIC	id=1453399649785,shp=509.5,shp=375.4496536254883,sex=0,seq=0,sec=10208,sfc=0,saex=3.2335423197492164,sawt=0.2483346394984326
Jan 21, 2016 1:06:59 PM	INFO	Cc	DIAGNOSTIC	id=1453399619783,shp=509.5,shp=320.00040435791016,sex=0,seq=0,sec=10208,sfc=0,saex=3.2335423197492164,sawt=0.2483346394984326
Jan 21, 2016 1:06:59 PM	INFO	Cc	DIAGNOSTIC	id=1453399619783,ds=Cargo.1.0,ec=0,aex=0.0,awt=0.0,fc=0
Jan 21, 2016 1:06:59 PM	INFO	Cc	DIAGNOSTIC	id=1453399619783,ds=iSample_policy_pricing.0.41,ec=3453,aex=3.4422241529105126,awt=0.2953953084274544,fc=0
Jan 21, 2016 1:06:59 PM	INFO	Cc	DIAGNOSTIC	id=1453399619783,ds=AllocateTrade.1.14,ec=0,aex=0.0,awt=0.0,fc=0

Download log

Corticon Web Console enables you to download and view Server log files. This is especially useful when you need to locally examine a remote Server's log files to identify the source of a problem. To download a Server's log files, ensure that the Server is started and that the Web Console is connected to it. Then, click **Download Logs** in the Server page. This opens a dialog box where you can choose to download **All** log files or only the **Most Recent**. If you choose **All**, all log files that have been retained since installation will be downloaded. If you choose **Most Recent**, you will get all log files that have been modified by the Server in the last 24 hours. Select the appropriate option and click **Download**. This downloads a ZIP file named `CcServerLog.zip` that contains the Server log files.



To know more about troubleshooting a problem by examining Server logs, see *Troubleshooting Corticon Server problems in the Corticon Server: Integration & Deployment Guide*.

Applications and Decision Services

An Application is a group of Decision Services that you can deploy to a Server or Server Group. When you deploy an Application to a Server Group, all Decision Services in the Application are deployed to each of the Corticon Servers in the Server Group. Further, if a new server is added to the Server Group, the Web Console automatically deploys the Application to it. An Application is therefore, a unit of deployment. It enables you to manage a set of related Decision Services more easily.

In order to add a Decision Service to an Application, you need to have a Decision Service file (.eds) that was packaged from a Ruleflow. There are several toolsets that perform this task, as discussed in the section *"Packaging and deploying Decision Services" in the Integration and Deployment Guide*.

A feature of Corticon Studio, as described in *"Deploying Decision Services into Web Console Applications from Studio" in the Integration and Deployment Guide*, enables you to select Ruleflows in a project to deploy as Decision Services that are sent to a new or existing Application in a Server Group managed in a Web Console. As a result, the Decision Services are immediately deployed (or redeployed) to all active servers in the Server Group.

The following procedures show to create an Application within a Web Console session, and then add packaged Decision Services into it.

Creating an Application

Follow these steps to create an Application:

- Click **New > Application**.
- On the **New Application** page, enter a name and optionally, a description for the Application, as shown in the image below.
- In the **Servers** drop-down, select the Server or Server Group that you want to deploy the Application to.
- In the **Rule Messages Restrictions** section, select the appropriate option.

New Application

Name

Actuarial tests

Description

Tests various beneficiary and applicant factor expectations.

Servers

User Acceptance Tests ▾

Rule Messages Restrictions

- Restrict Info Rule Messages
- Restrict Warning Rule Messages
- Restrict Violation Rule Messages

Decision Services + Add				
	Name	File Name	XML Message Style	Database Access Mode
	Click Add to add decision services to this application			

Adding Decision Services to the Application

The **Decision Services** section of the **New Application** page enables you to add and remove Decision Services from the Application. For each Decision Service that you want to add, perform the following steps:

- Click **+Add** in the **Decision Services** section.
- In the **Add Decision Service** dialog box, enter a name and description for the Decision Service.
- Click **Choose EDS File**, and specify the EDS file of the Decision Service.
- In the **Maximum Pool Size** field, specify how many execution threads for this Decision Service will be added to the execution queue. If you leave this field blank, the Web Console will set a default value of 1.
- In the **XML message style** section, choose whether request messages for this Decision Service should contain a **Flat** or **Hierarchical** payload structure. **Auto Detect** accepts either style.

- In the **Database Access Mode**, choose the appropriate database access option. This is effective only if your Corticon license enables EDC. This setting controls how an EDC-enabled Decision Service will access the database. Select **Read Only** or **Read/Update** to then expose additional settings that you need to configure:
 - **Database Access Properties File:** Specify the property file that contains the database access properties. To learn how to generate this file from Corticon Studio, see the topic: *"Creating a database access properties file" in Corticon EDC: Using Enterprise Data Connector.*

- **Database Entities Returned Mode:** Choosing **All Entities** returns all records from the database when the Decision Service executes. Choosing **Incoming and New Entities** returns entities that were in the request message and only those entity records that are added or modified in the database when the Decision Service executes. Select the appropriate option.
- **Database Caching:** Database caching enables Corticon to store often-used data in a cache. This improves the performance of the Decision Service since it can read and write data in the cache faster than if this data was in the database. If you choose **Enabled**, database caching will be enabled for the Decision Service. To learn more about database caching, see the topic: *"Database caching" in the Corticon Server: Integration and Deployment Guide.*

Database Access Mode

None Read Only Read/Update

Database Access Properties File

DB_Access.properties

Database Entities Returned Mode

All Entities Incoming and New Entities

Database Caching

Enabled Disabled

- Click **Add** to return to the **New Application** page where you can add more Decision Services.

When you have added all the Decision Services to the Application, click the **Save & Deploy** button



to save the application and deploy the Decision Services to all servers in the Server Group.

Note: For more information on some of these Decision Service properties, refer to the details and references in the topic *"Using the Deployment Console tool's Decision Services" in the Corticon Integration and Deployment Guide.*

Application Details

On the Applications page, when you double-click on an application, or select an application and then click **Details**, its details page opens. You can follow the link to the server group where the application is deployed. If you select a Decision Service, its information displays in the preview panel.

Clicking on a Decision Service line opens its **Decision Services Details** panel.

Application Details

Life Insurance ✔

The application and policy generation rules.

▼ **General**

Servers:	VersionPreProduction ✔
Deployed:	Jan 21, 2016 9:45:01 AM
Created By:	admin
Created On:	Jan 21, 2016 5:33:33 AM
Last Modified On:	Jan 21, 2016 9:45:00 AM

▼ **Execution Metrics**

Execution Count:	3452
Failure Count:	0
Average Time:	3.44 milliseconds

▼ **Decision Services**

	Name	File Name	Status
<input type="checkbox"/>	iSample_policy_pricing	iSample_policy_pricing_v0_41.eds	✔

▶ **Rule Messages Restrictions**

Decision Service Details

Decision Service details displays operational and performance data on that deployed Decision Service.

If the Application is associated and deployed to a Server Group, the operational and performance data is an aggregate from all Server Group's servers. The actions available include **Test Execution**

When you access Decision Service details from a Server page, you see the metrics and statistics from that particular server. Note that the actions available include **Test Execution** and, if available, access to its **WSDL**:

Decision Service
▶ Test Execution < Back

iSample_policy_pricing v0.41 ✔

▼ General

Deployed:	Jan 21, 2016 9:45:01 AM
Effective Start:	
Effective Stop:	
Auto Reload:	Yes
Message Style:	
Maximum Pool Size:	1
Rule Count:	33
Last Execution Time:	long

▼ Execution Metrics

Execution Count:	3452
Failure Count:	0
Average Time:	3.44 milliseconds

▼ Decision Service Statistics

● Live Data
Hour
12 hours
1 day
7 days

Decision Service Response and Execution

▼ File

Local File:	iSample_policy_pricing_v0_41.eds
EDS File Timestamp:	Jan 21, 2016 9:45:01 AM

▼ Database

Database Access Mode:	
Database Access Properties File:	
Database Entities Returned Mode:	
Database Caching:	No

▶ Rule Messages Restrictions

▼ History

Created On:	Jan 21, 2016 5:33:45 AM
Created By:	

Test Execution

The Web Console lets you test deployed Decision Services by executing their SOAP or REST interfaces with a user specified request in XML or JSON format, and then displaying the results. You need to have a request file on your local machine that you can apply against the selected Decision Service.

To execute a test against the selected Decision Service deployment:

1. Click **Choose Request File**, then locate and open an XML or JSON request appropriate to the Decision Service. The **Request** area shows the request text.
2. Choose its **Request Type**.
3. Click **Execute**.

The request executes, and then adds the **Response** text, as shown:

The screenshot displays the Corticon Web Console interface for testing a Decision Service. The main content area is titled "Test Execute: iSample_policy_pricing".

- Server:** nbbdgsaintma1:8850/axis
- Request File:** LifelnsTest.xml (with a "Choose Request File" button highlighted)
- Request Type:** SOAP/XML (selected)
- Request:**

```
<?xml version="1.0" encoding="UTF-8"?>
<CorticonRequest xmlns="urn:Corticon" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" decisionServiceName="InsertDecisionServiceName">
  <WorkDocuments>
    <Application id="Application_id_1">
      <category>life</category>
      <coverage>250000</coverage>
      <applicant xsi:type="Female_Customer" id="Female_Customer_id_1">
        <age>46</age>
        <breast_cancer_detected>false</breast_cancer_detected>
        <breast_cancer_in_family>false</breast_cancer_in_family>
        <income>90000</income>
        <long_term_value xsi:nil="true" />
        <name>Jill Hennesey</name>
        <net_worth>800000</net_worth>
        <real_estate_assets>450000</real_estate_assets>
        <smoker>false</smoker>
        <ssn>111-22-3333</ssn>
        <state_of_residence>CA</state_of_residence>
      </applicant>
    </Application>
  </WorkDocuments>
</CorticonRequest>
```
- Response:**

```
<?xml version="1.0" encoding="UTF-8"?><CorticonResponse xmlns="urn:Corticon" decisionServiceName="iSample_policy_pricing"
decisionServiceTargetVersion="0.41">
  <WorkDocuments>
    <Application id="Application_id_1">
      <category>life</category>
      <coverage>250000</coverage>
      <applicant xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" id="Female_Customer_id_1" xsi:type="Female_Customer">
        <age>46</age>
        <breast_cancer_detected>false</breast_cancer_detected>
        <breast_cancer_in_family>false</breast_cancer_in_family>
        <health_risk_rating>7</health_risk_rating>
        <income>80000</income>
        <life_risk_rating>3</life_risk_rating>
        <long_term_value>540000</long_term_value>
        <name>Jill Hennesey</name>
        <net_worth>800000</net_worth>
        <real_estate_assets>450000</real_estate_assets>
        <smoker>false</smoker>
      </applicant>
    </Application>
  </WorkDocuments>
</CorticonResponse>
```

Copyright © 2005-2016 Progress Software Corporation or one of its subsidiaries or affiliates. All rights reserved.

WSDL

The WSDL option brings an available Decision Service WSDL into a display and provides access to the WSDL in an editor:

The screenshot shows a window titled "WSDL" with a close button in the top right corner. The main area contains XML code for a WSDL document. The code defines two complex types, "CorticonRequest" and "CorticonResponse", and several other types like "ExecutionProperties", "ExecutionProperty", and "WorkDocuments". It also includes attributes for "decisionServiceName", "decisionServiceTargetVersion", "decisionServiceEffectiveTimestamp", and "usage".

```
<?xml version="1.0" encoding="UTF-8"?><definitions xmlns="http://schemas.xmlsoap.org/wsdl/" targetNamespace="urn:Corticon">
  <types>
    <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" targetNamespace="urn:Corticon" elementFormDefault="qualified">
      <xsd:element name="CorticonRequest" type="tns:CorticonRequest"/>
      <xsd:element name="CorticonResponse" type="tns:CorticonResponse"/>
      <xsd:complexType name="CorticonRequest">
        <xsd:sequence>
          <xsd:element name="ExecutionProperties" maxOccurs="1" type="tns:ExecutionProperties" minOccurs="0"/>
          <xsd:element name="WorkDocuments" type="tns:WorkDocuments"/>
        </xsd:sequence>
        <xsd:attribute name="decisionServiceName" use="required" type="xsd:string" fixed="AllocateTrade"/>
        <xsd:attribute name="decisionServiceTargetVersion" use="optional" type="xsd:nonNegativeInteger"/>
        <xsd:attribute name="decisionServiceEffectiveTimestamp" use="optional" type="xsd:dateTime"/>
        <xsd:attribute name="usage" use="optional" type="xsd:string"/>
      </xsd:complexType>
      <xsd:complexType name="CorticonResponse">
        <xsd:sequence>
          <xsd:element name="ExecutionProperties" maxOccurs="1" type="tns:ExecutionProperties" minOccurs="0"/>
          <xsd:element name="WorkDocuments" type="tns:WorkDocuments"/>
          <xsd:element name="Messages" type="tns:Messages"/>
        </xsd:sequence>
        <xsd:attribute name="decisionServiceName" use="required" type="xsd:string" fixed="AllocateTrade"/>
        <xsd:attribute name="decisionServiceTargetVersion" use="optional" type="xsd:nonNegativeInteger"/>
        <xsd:attribute name="decisionServiceEffectiveTimestamp" use="optional" type="xsd:dateTime"/>
        <xsd:attribute name="usage" use="optional" type="xsd:string"/>
      </xsd:complexType>
      <xsd:complexType name="ExecutionProperties">
        <xsd:sequence>
          <xsd:element name="ExecutionProperty" maxOccurs="unbounded" type="tns:ExecutionProperty" minOccurs="0"/>
        </xsd:sequence>
      </xsd:complexType>
      <xsd:complexType name="ExecutionProperty">
        <xsd:sequence/>
        <xsd:attribute name="executionPropertyName" use="required" type="xsd:string"/>
        <xsd:attribute name="executionPropertyValue" use="required" type="xsd:string"/>
      </xsd:complexType>
      <xsd:complexType name="WorkDocuments">
        <xsd:choice maxOccurs="unbounded">

```

At the bottom left of the window, it says "AllocateTrade v1.14 WSDL URL:" followed by the URL <http://nbbedsaintma1:8850/axis/dswsdl/AllocateTrade/1/14>. A "Close" button is located at the bottom right.

Viewing the Activity Log

Corticon Web Console maintains a log of its activities. The log includes:

- User actions such as deploying or undeploying Decision Services and creating or modifying Applications and Servers.
- System events such as deployment failures and lost connections to Servers.

To view the Web Console log, click **ACTIVITY LOG** on the left pane. The Activity Log page opens and displays the log in a three-column table:

Activity Log ⚙ Configuration

User All ▾ Component All ▾ Action All ▾ Status All ▾ Filter Page Size 10 ▾

From Dec 22, 2015 📅 To Jan 21, 2016 📅

Time	User Name	Message
Jan 21, 2016 9:45:01 AM	admin	✔ Decision Service "iSample_policy_pricing" successfully deployed to "nbbedgsaintma1:8850/axis"
Jan 21, 2016 9:45:00 AM	admin	✔ Application "Life Insurance" successfully modified
Jan 21, 2016 9:44:09 AM	admin	✘ Deployment of Decision Service "iSample_policy_pricing" on "localhost:9850/axis" failed
Jan 21, 2016 9:44:09 AM	admin	✘ Deployment of Decision Service "iSample_policy_pricing" on "localhost:8850/axis" failed
Jan 21, 2016 9:44:09 AM	admin	✔ Decision Service "iSample_policy_pricing" successfully undeployed from "nbbedgsaintma1:8850/axis"
Jan 21, 2016 9:44:09 AM	admin	✔ Application "Life Insurance" successfully modified
Jan 21, 2016 5:39:44 AM	admin	✔ Decision Service "iSample_policy_pricing" successfully deployed to "nbbedgsaintma1:8850/axis"
Jan 21, 2016 5:39:43 AM	admin	✔ Application "Life Insurance" successfully modified
Jan 21, 2016 5:33:46 AM	admin	✔ Decision Service "iSample_policy_pricing" successfully deployed to "localhost:9850/axis"
Jan 21, 2016 5:33:46 AM	admin	✔ Decision Service "iSample_policy_pricing" successfully deployed to "localhost:8850/axis"

First Previous 1 2 3 4 5 6 Next Last

Page: 1 / 6

Some log messages, such as those relating to failed deployment of Decision Services, have additional information about the problem that is not displayed in the table. To view this information, hover over a log message and click on the information icon ⓘ that gets displayed. A pop-up window opens, containing the additional information.

You can filter the table to view a subset of the log messages. To do this, select the desired filters from the drop-down lists as shown below and then click **Filter**. For example, to view all failed Decision Services deployments by a user, select the username from the **User** drop-down, select **Decision Service** in **Component**, select **Deploy** in **Action** and finally, select **Failed** in the **Status** drop-down. You can also add a date range to the filter if you are interested in viewing log messages between specific dates.

Activity Log

User Component Action Status

From To

Time	User Name	M
Jan 21, 2016 9:44:09 AM	admin	Deployment of Decision Service "iSample_policy_pricing" on
Jan 21, 2016 9:44:09 AM	admin	Deployment of Decision Service "iSample_policy_pricing" on
Jan 20, 2016 3:42:00 PM	admin	Connection to "nbbedgsaintma1:9850/axis" failed
Jan 20, 2016 3:38:52 PM	admin	Retrieving metrics for Server Group "User Acceptance Tests
Jan 20, 2016 3:38:46 PM	admin	Retrieving metrics for Server Group "User Acceptance Tests
Jan 20, 2016 3:37:53 PM	admin	Retrieving metrics for Server Group "User Acceptance Tests
Jan 20, 2016 3:37:40 PM	admin	Retrieving metrics for Server Group "User Acceptance Tests
Jan 20, 2016 3:23:14 PM		Connection to "nbbedgsaintma1:8850/axis" failed
Jan 20, 2016 3:10:08 PM	admin	Connection to "nbbedgsaintma1:8850/axis" failed

The Web Console maintains this log for a configurable period of time. This setting is visible only to Web Console Administrators. To know more about configuring the Activity Log, see the topic [Configuring the Activity Log](#) on page 42.

Participating in the Web Console Customer Experience Improvement Program

Corticon uses Progress Telerik Analytics to gather data that will help Progress Software determine product usage trends and improve product quality.

When you first log in to a 5.5.2 Corticon Web Console, the **Customer Experience Improvement Program** dialog box opens. Read through the information in the dialog, and then either check the option to sign up for the Customer Experience Improvement Program, or clear the option to opt out. Clicking **OK** records your decision.

If you click **Cancel** (or click the close box), you are opted out.

Your selection is retained on the Web Console Server where you logged on so that later log on to that server from another browser or device has recorded your preference.

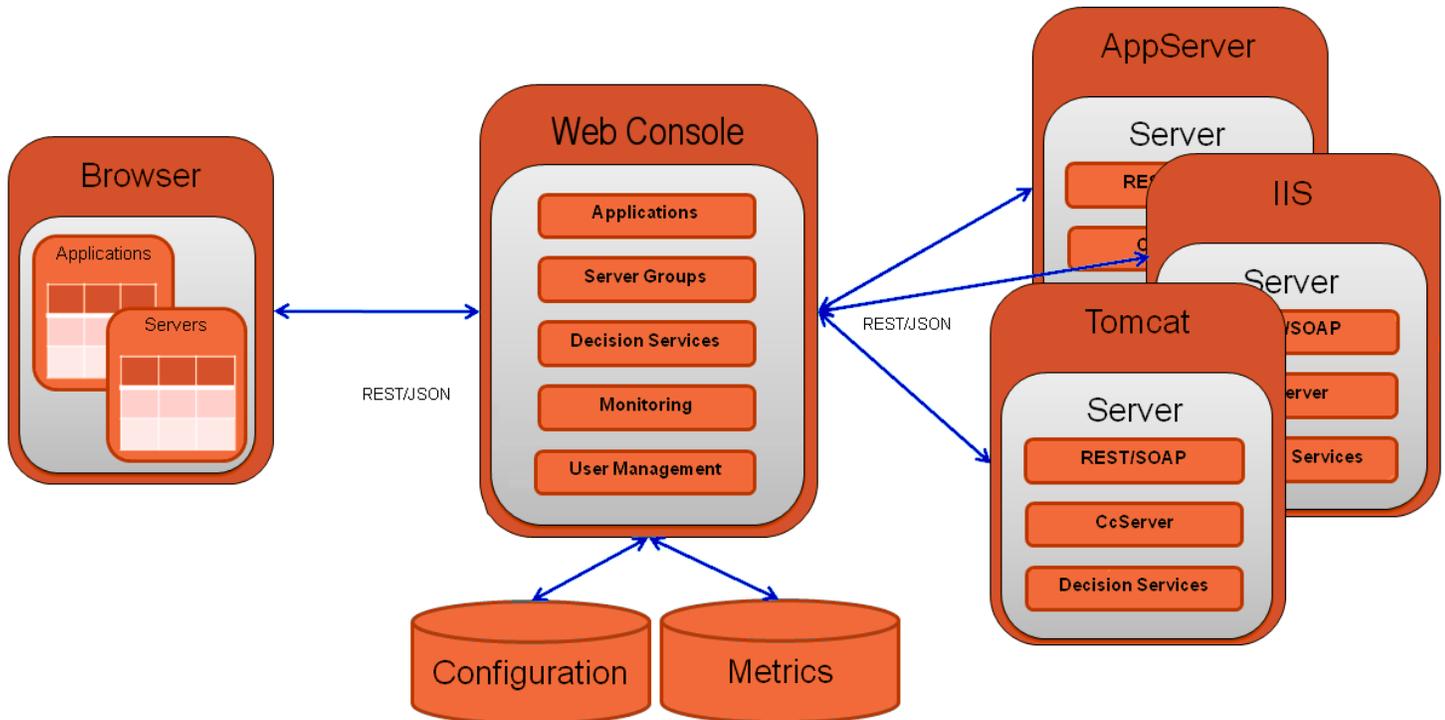
You can change your participation any time by logging on to Progress Corticon Web Console, clicking on your user name, and then choosing **Preferences**. Clear the option "Sign up for Customer Experience Improvement Program" and then click **Save**.

Administrator's Guide

Architecture Overview

The Web Console is a separate web application from the Corticon server (axis.war), deployable to either the same or separate application server as the Corticon server. When managing a group of Corticon servers the recommended practice is to deploy the Web Console to a separate application server as depicted in this diagram:

Figure 1: Architecture of the Corticon Web Console



Key aspects of this diagram:

- There is a single application server hosting the Web Console and three application servers hosting Corticon servers. The Web Console is agnostic to the application server hosting a Corticon server, this includes a mix of Java and .NET servers.
- REST/JSON is used for communication between the browser and the Web Console and between the Web Console and the Corticon server. A new REST management API is being added to the Corticon server to support managing a server. See REST Management API.
- The Web Console stores all configuration in a local datastore. This includes definition of server groups, applications, and Decision Services (including the EDS file).
- The Web Console stores historical metrics in a local datastore. A retention policy will be supported for determining how long to keep historical metrics.

Installation

The Corticon Java and .NET Server installers have been merged into a single installer, together with the new Web Console. See the *Corticon Installation Guide* for more information. See the Progress Software web page [Progress Corticon 5.5.2 - Supported Platforms Matrix](#) to review the currently supported browsers, platforms and application servers.

For details, see the following topics:

- [User management](#)
- [Configuring the Activity Log](#)
- [Configuring auto logout](#)
- [Resetting the administrator password](#)

User management

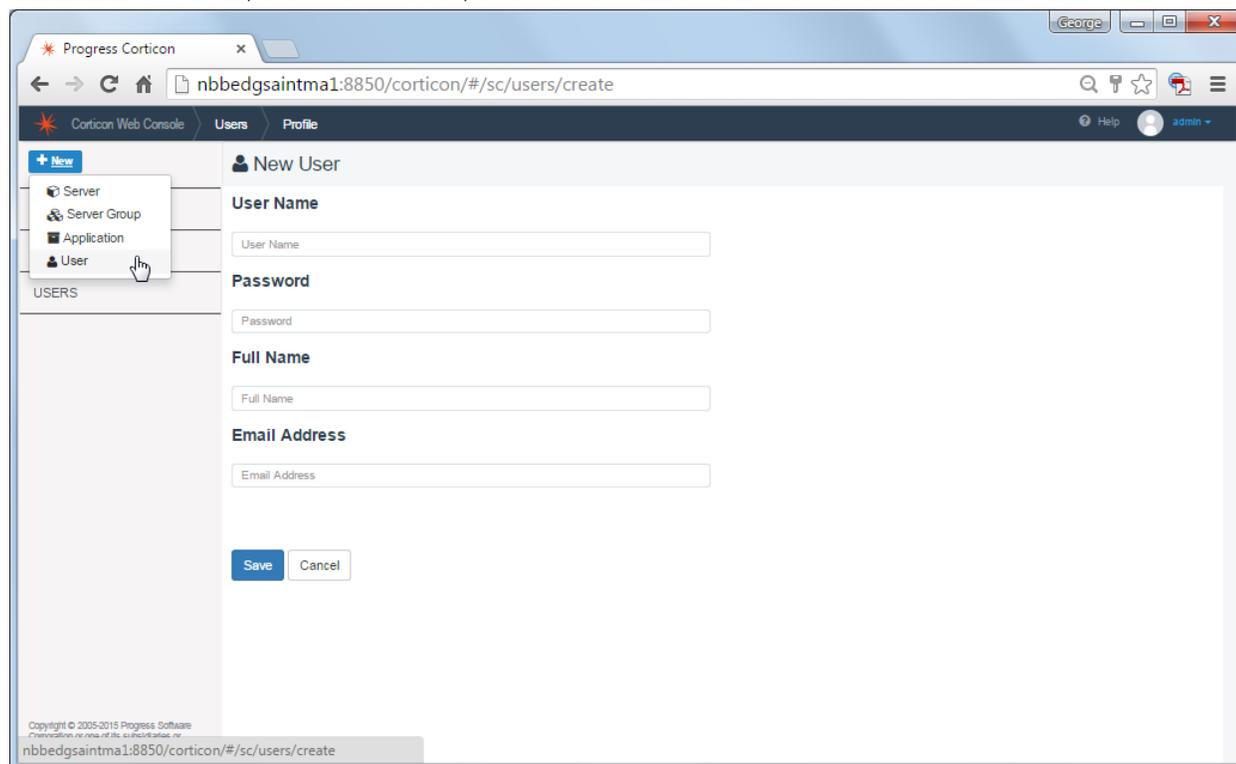
The Web Console provides secure access. The administrator (User Name `admin`) is a preset user that cannot be deleted. You can change the administrator's password -- that's a task you should do as soon as you get started with the Web Console and take the administrator's role.

The administrator is the only user that can access user management to create, edit, and delete other users. Note that the case matters in the user name and password.

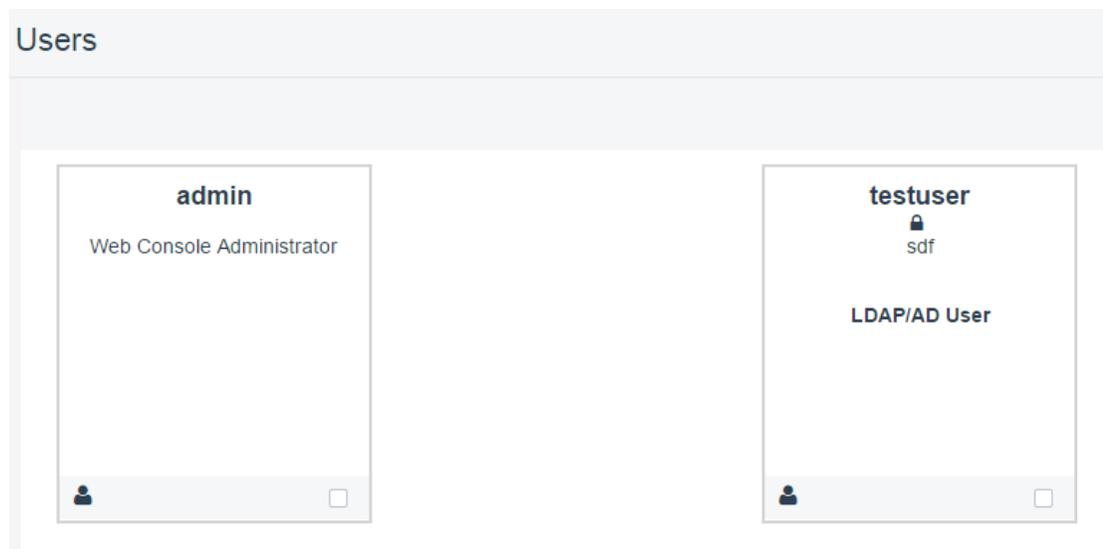
To review defined users, the `admin` user can click **USERS**:

Users			
	Name	Full Name	Email Address
<input checked="" type="checkbox"/>	admin	Web Console Administrator	
<input type="checkbox"/>	AI	Albert Einstein	chico@princeton.edu

To create new users, click **New > User**, and then enter the user information and click **Save**:



You can also set up LDAP authentication, if business needs require your users to be authenticated through an LDAP server. This is covered in the topic *"Additional tasks to set up LDAP for Web Console" in the Corticon Installation Guide*. After LDAP authentication is set up, LDAP users who log in to the Web Console are added to the **Users** page. LDAP users are differentiated from other users by the **LDAP/AD** annotation as shown in the image below. Note that while LDAP users can be deleted from the **Users** page, their details cannot be modified in the Web Console.

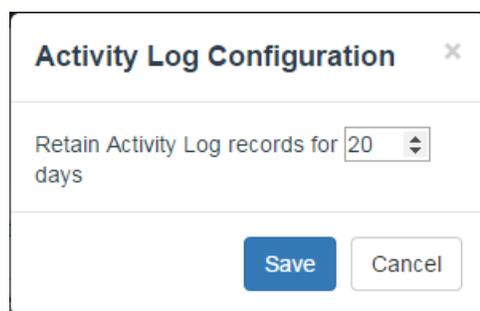


Configuring the Activity Log

Corticon Web Console maintains a log of its activities. The log includes:

- User actions such as deploying or undeploying Decision Services and creating or modifying Applications and Servers.
- System events such as deployment failures and lost connections to Servers.

A Web Console Administrator can view the Activity Log as well as configure the duration for which Corticon Web Console maintains log records. To view the Activity Log, click **ACTIVITY LOG** on the left pane. To configure the duration for which Web Console keeps log records, click **Configuration** on the Activity Log page and set the number of days for which Web Console maintains log records.

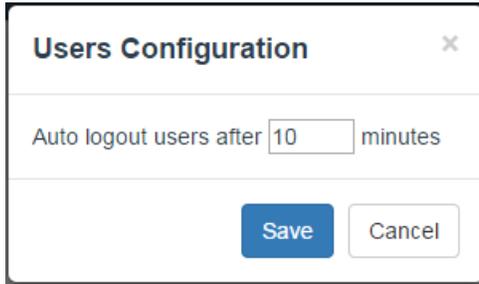


To know more about viewing and filtering the Activity Log, see the topic [Viewing the Activity Log](#) on page 35.

Note: The Web Console Activity Log is different from a Server log, which logs user actions, system events, and other information for a specific instance of Corticon Server based on configurable log levels.

Configuring auto logout

As part of user management, you can define a period of inactivity (in minutes) after which a user is automatically logged out of the Web Console. To configure this setting, click **Configuration** on the **Users** page. In the **User Configuration** dialog box, enter the duration of inactivity, as shown below:



The screenshot shows a dialog box titled "Users Configuration" with a close button (X) in the top right corner. Below the title bar, there is a text input field labeled "Auto logout users after" containing the number "10", followed by the text "minutes". At the bottom of the dialog, there are two buttons: a blue "Save" button and a white "Cancel" button with a grey border.

Resetting the administrator password

If the Web Console administrative user (`admin`) cannot recall the password, a systems administrator can perform a task that will reset the password on the Corticon Server where the Web Console runs. See the topic "*Resetting the Web Console administrator's password*" in the *Corticon Installation Guide* for more information.

A

Access to Corticon knowledge resources

[Complete online documentation for the current release](#)

Corticon online tutorials:

- [Tutorial: Basic Rule Modeling in Corticon Studio](#)
- [Tutorial: Advanced Rule Modeling in Corticon Studio](#)
- [Modeling Progress Corticon Rules to Access a Database using EDC](#)
- [Connecting a Progress Corticon Decision Service to a Database using EDC](#)

Corticon guides (PDF):

- [What's New in Corticon](#)
- [Corticon Installation Guide](#)
- [Corticon Studio: Rule Modeling Guide](#)
- [Corticon Studio: Quick Reference Guide](#)
- [Corticon Studio: Rule Language Guide](#)
- [Corticon Studio: Extensions Guide](#)
- [Corticon Server: Integration and Deployment Guide](#)
- [Corticon Server: Web Console Guide](#)
- [Corticon Server: Deploying Web Services with Java](#)
- [Corticon Server: Deploying Web Services with .NET](#)

Corticon JavaDoc API reference (HTML):

- [Corticon Foundation API](#)
- [Corticon Model API](#)
- [Corticon Server API](#)

See also:

- [Introducing the Progress® Application Server](#)
- Corticon documentation for this release on the [Progress download site](#): What's New Guide (PDF), Installation Guide (PDF), PDF download package, and the online Eclipse help installed with Corticon Studio.