

Corticon Server: Web Console Guide

Notices

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Table of Contents

Chapter 1: About Corticon's Web Console.....7

Chapter 2: User's Guide.....9

- Components in a Corticon deployment.....11
- Servers groups and Servers.....12
 - Adding Server groups and Servers.....12
 - Editing Server groups and Servers.....16
 - Exploring Server features.....18
 - Managing in-process servers.....22
- Decision Services and Applications23
 - Using Applications25
 - Add or Edit a Decision Service.....25
 - Undeploy a Decision Service on a Server.....29
 - Decision Service General Information.....30
 - Decision Service Details.....30
 - Application Details.....32
 - Test Execution.....32
 - WSDL.....34
 - Monitored Attributes.....34
- Viewing the Activity Log.....36
- Participating in the Web Console Customer Experience Improvement Program.....37

Chapter 3: Administrator's Guide.....39

- User management.....40
 - Using LDAP for Web Console authentication.....42
- Configuring the Activity Log.....43
- Configuring auto logout.....43
- Resetting the administrator password.....44

Appendix A: Access to Corticon knowledge resources.....45

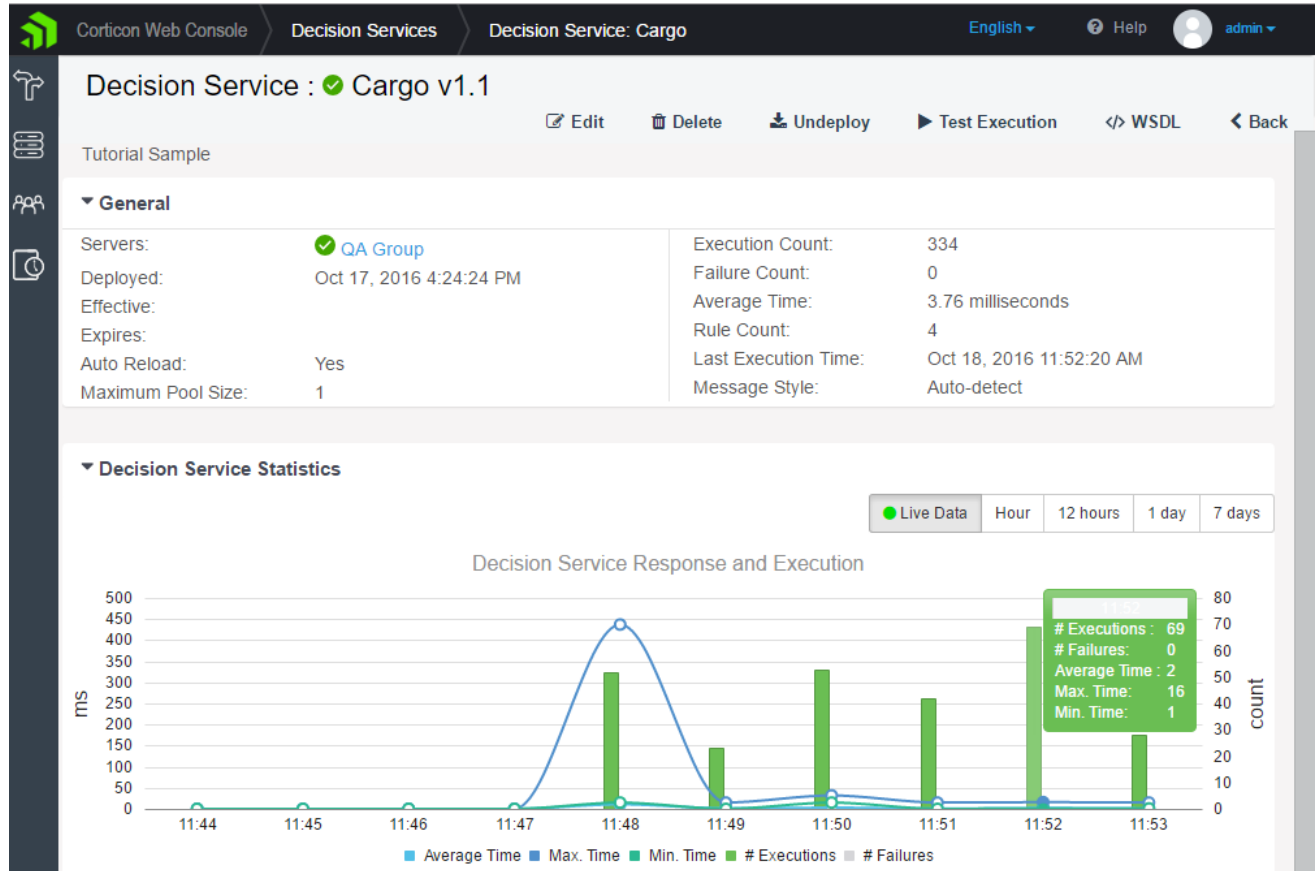
About Corticon's Web Console

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 individual Decision Services to one or more Corticon Servers. You can also group related Decision Services into an Application to deploy and manage them as one. Once deployed, you can easily monitor the performance of the Decision Services and Corticon Servers and view both individual and aggregated metrics. Actions on Decision Services 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 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 shortcut starts both of them. Then, the **Corticon Web Console** shortcut launches your default browser to connect to the local Web Console.

Here is a view of a Decision Service with a graph of the responses and executions over a span of a several minutes:



This guide describes user activities in the Web Console interface, followed by an administrator's section that touches on architectural features and management functions.

User's Guide

A server administrator uses a web browser to connect to a running Web Console Server. You will see how the Web Console interface works, how you manage Corticon Servers in a distributed architecture, and how you manage and monitor the Decision Services that run on those servers.

Note: If you have not yet installed Corticon 5.6 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
```

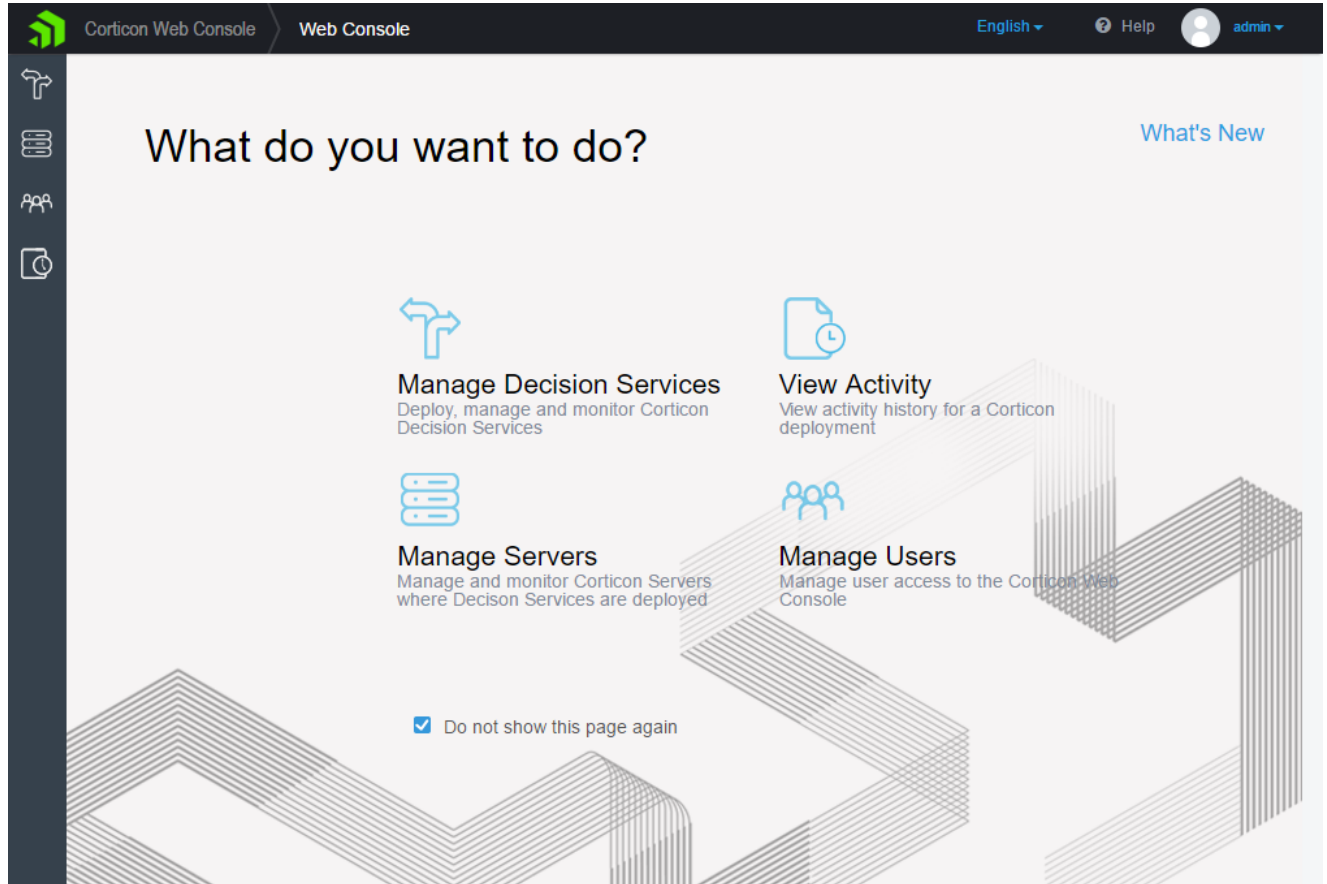
- When you are on the machine that hosts the Web Console installation, simply choose **Start > Progress > Corticon 5.6 > Corticon Web Console**

Logging in to the Web Console

Enter your user credentials in the Web Console login page. When you start using the Web Console, the one pre-defined user is the administrative user, `admin`, with the default password `admin`. If you are the administrator, you should change the default password soon after you log in. Only the `admin` user can add new users. All users have rights to deploy and manage Decision Services. If your role is as a user, obtain your user credentials from your Web Console administrator.

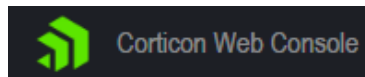
What Do You Want To Do?

When you log in for the first time, you see a welcome page that acquaints you with the Web Console's functions. You also can access **What's New** in Corticon.



Click any action button on the welcome page, the title bar, or the function pane to close the welcome page and open the chosen page.

You can re-open the welcome page by clicking in the upper left corner of the page:



Navigation

The general navigation elements of Web Console pages are:

- **Title bar:**
 - The navigation path to the current page 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.

- **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.
- **Function bar** on the left provides access to the functional areas described on the page:



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:

- [Components in a Corticon deployment](#)
- [Servers groups and Servers](#)
- [Decision Services and Applications](#)
- [Viewing the Activity Log](#)
- [Participating in the Web Console Customer Experience Improvement Program](#)

Components in a Corticon deployment

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

- **Decision Services** - The Corticon Decision Services added to the Web Console. A Decision Service is a set of Corticon rules and supporting assets packaged for deployment.
- **Applications** - Collections of one or more Decision Services to be managed as set. For example, a set of Decision Services in support of a business process that you want to deploy or monitor as a whole.
- **Servers** - Individual instances of Corticon Java or .NET Servers that have been registered with the Web Console. Once registered, the servers are available for deployment of Decision Services.
- **Server Groups** - Groups of one more Servers. Server Groups are useful when you want to deploy Decision Services to a set of Servers. For example, a set of Servers behind a load balancer, or in a regional location.
- **Users** - Defined users who can use the Web Console to administer a Corticon deployment.

- **Activity Logs** - Record of user actions in the Web Console and other asynchronous events such as a server going offline.

Sorting and filtering components

In the pages that list Servers, Decision Services, and Users, you can readily adjust the column sizes and display as well as sort and filter which lines qualify for display by clicking on a column header, as illustrated:

Decision Service Name ▲	Version ▲	Expires	CDD	Server
✓ AllocateTrade			✓	✓ localhost
✓ Candidates			✓	✓ localhost
✓ Cargo			✓	✓ localhost
✓ ProcessOrder			✓	✓ localhost

Sort Ascending	
Sort Ascending	
Sort Descending	
Columns	
Filter	

Show items with value that:	
Starts with	
Ca	
Filter	Clear

Servers groups and Servers

The Web Console allows you to manage and monitor Corticon Servers. The servers can be managed individually or in groups. Server Groups are useful when you want to deploy Decision Services to a set of Corticon Servers. A common use case is a set of Corticon Servers running behind a load balancer where each Server needs to have the same set of Decision Services deployed. Additionally, you can view aggregate metrics for the performance of the servers in a group.

Adding Server groups and Servers

As Corticon Servers are the deployment platform that runs Corticon Decision Services, your Web Console requires that you have one or more Corticon Servers under management so that you can deploy Decision Services and Applications. You can create **Server Groups** to enable common distribution of Decision Services to all servers in the group, and immediate provisioning of new servers added to the group.

Note: When you first start the Web Console in a new installation, no servers are under management unless you installed both Corticon Server for Java and Corticon Web Console. In that case, the Corticon Server is, by default, brought under management in the Web Console as the server `localhost`.

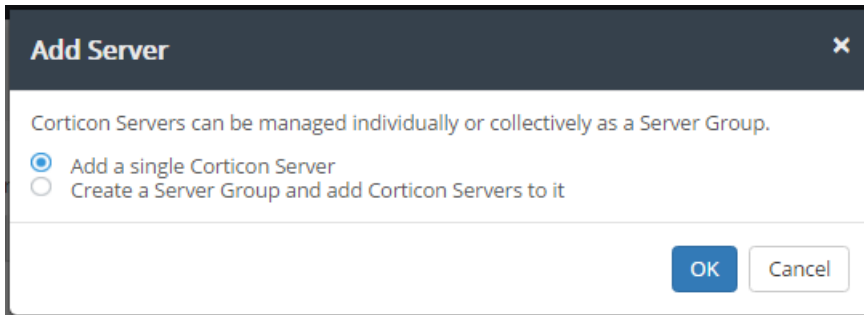
To add servers and server groups:

1. Connect to the Web Console server where you want to add servers and server groups.

2. Click the **Servers** icon: 

3. Click **+ Add Server**: 

4. In the **Add Server** dialog box, choose whether to add a single server or a server group:



5. Click **OK**.
6. There are a few ways to add servers. The following entries are common **Server** information to each of them:
 - **Protocol**: Default is HTTP. You can choose HTTPS, if this server has enabled it.
 - **Hostname**: Enter the DNS-resolvable name or static IP address (avoid *localhost* and *127.0.0.1*)
 - **Port**: 8850 is the default HTTP port, 8851 for HTTPS, 80 typically on IIS
 - **Context URL**: The default is *axis*
 - **Server Requires Authentication**: When authentication has been enabled on a server, choose this option, and then supply the user name and password for the Web Console to use to establish a connection to the server.

Note: 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.

Adding a single Corticon Server

If you choose **Add a single Corticon Server**, the following dialog box opens:

Add Server

Add to a Server Group

Name

Description

Server

Server Requires Authentication

Enter the name you want to describe this server, and a description. Then enter then the server information. Click **Save** when your entries are complete.

Adding a Corticon Server to a new Server Group

If you choose **Create a Server Group and add Servers to it**, the following dialog box opens:

New Server Group

Name

Description

The one or more Java Servers and .NET Servers where the solution's stakeholders will evaluate its current functionality.

Servers + Add

	IP Address	Port	Context URL
<input type="checkbox"/>	UAT.ourCompany.com	8850	axis

Enter the group name and a description, then click **+ Add** to open the following dialog box:

Add a single Corticon Server
×

▾

Server Requires Authentication

Enter then the server information. Click **Add** when your entries are complete.

If you want to add more servers at this time, click **+ Add** and follow the steps.

When your new server group is complete, click **Save**.

Adding a Corticon Server to an existing group

When you choose **Add a single Corticon Server**, the **Add Server** dialog box provides a way to add the server to an existing group:

Click **Select Server Group** to choose a group, and then enter the server information. When your new server and its group assignment are complete, click **Save**.

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.

Editing Server groups and Servers

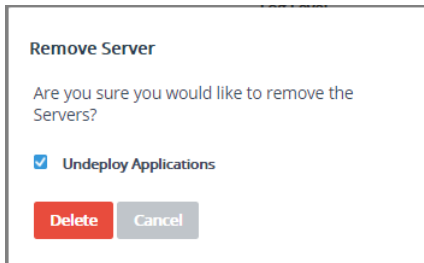
After adding a Server group or a server, you can change its configuration.

To edit a Server Group:

Select **Edit** on the server group's **Details** page to open its edit dialog box:

	IP Address	Port	Context URL	Log Level	Monitoring
<input type="checkbox"/>	nbbedgsaintma5	8850	axis	INFO	Enabled
<input type="checkbox"/>	nbbedgsaintma5	80	axis	INFO	Enabled

1. Edit the name and description as appropriate
2. Click **+ Add** to add more servers.
3. Select a server to access its edit and delete functions. **Edit** lets you change the server information. **Delete** removes the server from the group and the Web Console. You are asked to decide whether to undeploy any Decision Services before deletion, and then confirm the deletion action:

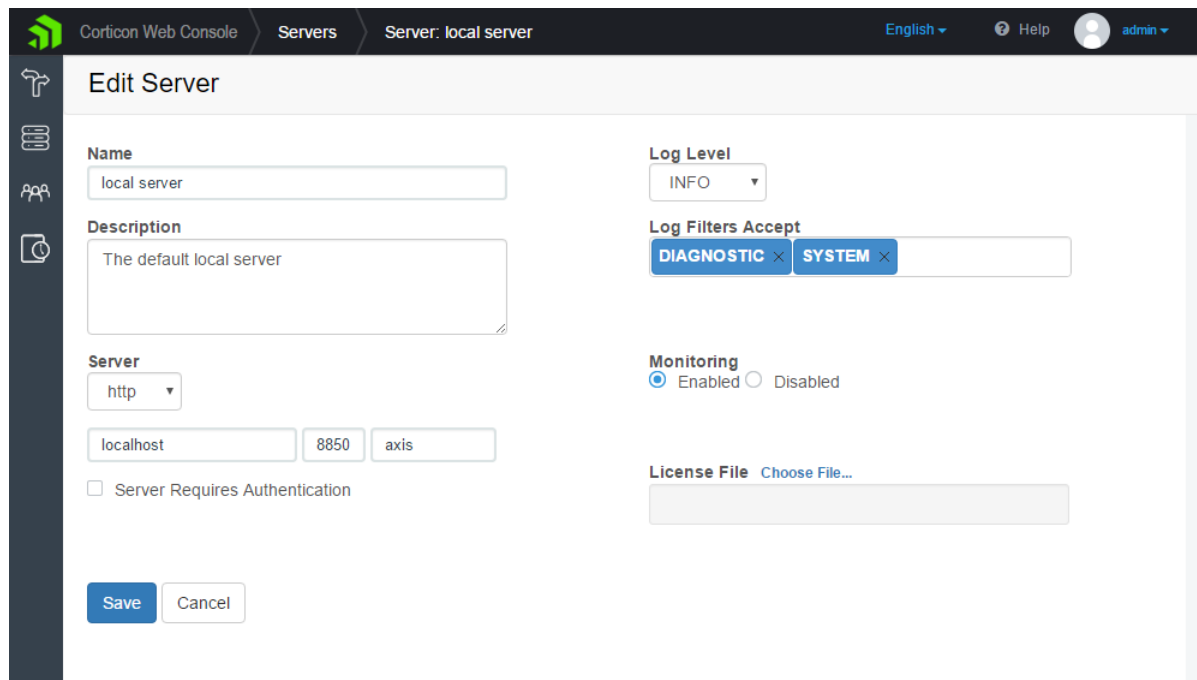


Note that deleting a server from the Web Console does not stop or delete the actual running server instance; it just removes the registration of the server with the Web Console. The server continues to run and could be added back to the Web Console.

4. You can change other server properties that will apply to all servers in the group as illustrated on the right side of the dialog box: **Log Level**, **Log Filters Accept**, **Monitoring**, and **License File**.

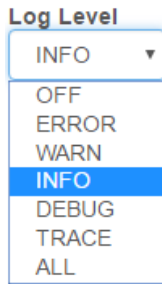
To edit a Server:

Select **Edit** on the server's **Details** page to open its edit dialog box:




Edit:

- **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.



- **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.

Exploring Server features

When you click the **Servers** icon:  in the left panel, the servers and server groups are listed. In this example, there is one Server Group and one Server:

The screenshot shows the "Servers" page in the Corticon Web Console. The page title is "Servers" and there is an "Add Server" button. Below the title, there is a section titled "Servers" with a sub-header "Manage and monitor Servers where Decision Services are deployed." A table lists the servers and server groups:

Name	Type	Description	Status	Executions	Average Time (ms)
local server	Server	The default local server	✓	0	0.00
QA Group	Server Group	Test servers	✓	334	3.76

At the bottom of the table, there is a pagination control showing "1" and "1 - 2 of 2 items".

Clicking on a server or server group **Name** selects it, and then opens its **Details** page to display the deployment and operational information about it.

The screenshot shows the 'Server Details' page for 'localhost:8850'. At the top, there are navigation links for 'Edit', 'Delete', 'View Log', and 'Download Logs'. Below this, the 'Execution Metrics' section is expanded, showing:

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

Below the metrics are three expandable sections: 'Server Statistics', 'Properties', and 'License'.

For the selected Server, you can choose **Edit**, **Delete**, **View Log**, or **Download Logs**.

Server Execution Metrics

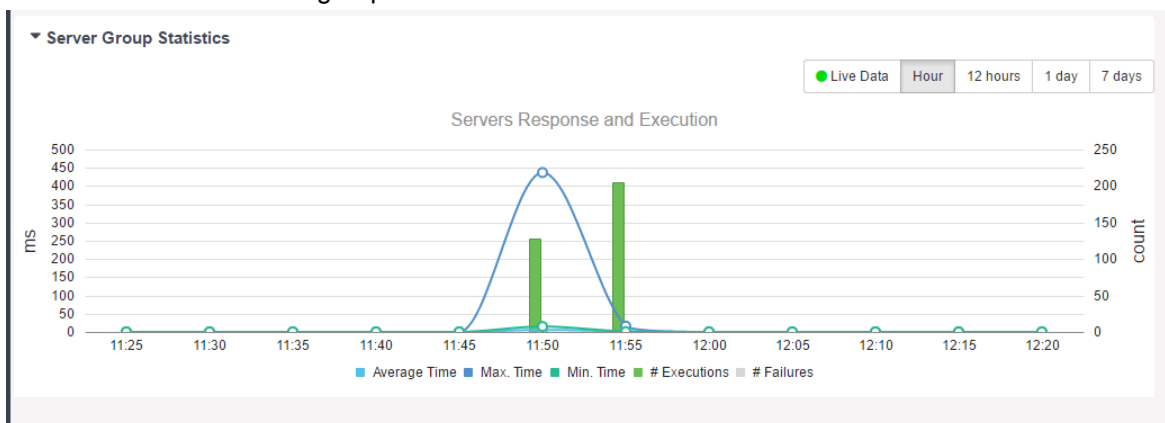
Execution metrics provide counts and performance data of all Decision Services running on the selected server, or aggregated across a server group.

The screenshot shows the 'Execution Metrics' section with the following data:

Execution Count:	334
Failure Count:	0
Average Time:	3.76 milliseconds

Server Statistics

You can look at metrics and statistics at several levels from for all Decision Services running on server or aggregated for all Decision Services and Servers in a server group. The following view shows the categories of information for a server group:



Properties

A Server's **Properties** lists important settings and platform environment data of the server, from its point-of-view:

▼ Properties			
Maintenance Service Enabled	Yes	Java Version	1.7.0_05
Maintenance Service Interval	30000	Java Vendor	Oracle Corporation
Monitoring Service Enabled	Yes	Operating System	Windows 7
Maximum Memory	1002 MB	Operating System Version	6.1
Total Memory	510 MB	Architecture	amd64
Free Memory	234 MB	Autoload Directory	C:/_56x_install_dir/work_dir/Server/cdd
Number Of Cores	4	Sandbox Directory	C:/_56x_install_dir/work_dir/Server/SER/CcServerSandbox

Properties are specific to a Corticon Server on the machine where it is installed and running. They are accessed for an individual server, or a member of a server group.

License

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

▼ License	
License Path	C:/_56x_install_dir/work_dir/Server/pas/server/webapps/axis/WEB-INF/lib/CcLicense.jar/CcLicense.lic
Licensed To	Evaluation
License Deactivation Date	Jun 1, 2017
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:

Timestamp	Level	Logger	Marker	Message
Oct 18, 2016 2:48:30 PM	INFO	Cc	DIAGNOSTIC	id=1476816510115, sthp=510.625, shp=263.09999084472656, sex=0, stq=0, sec=278, sfc=6, saex=3.539568345323741, sawt=0.5071942446043165
Oct 18, 2016 2:48:30 PM	INFO	Cc	DIAGNOSTIC	id=1476816510115, ds=ProcessOrder.1.10, ec=0, aex=0.0, awt=0.0, fc=0
Oct 18, 2016 2:48:30 PM	INFO	Cc	DIAGNOSTIC	id=1476816510115, ds=Candidates.1.14, ec=0, aex=0.0, awt=0.0, fc=0
Oct 18, 2016 2:48:30 PM	INFO	Cc	DIAGNOSTIC	id=1476816510115, ds=AllocateTrade.1.14, ec=0, aex=0.0, awt=0.0, fc=0
Oct 18, 2016 2:48:30 PM	INFO	Cc	DIAGNOSTIC	id=1476816510115, ds=Cargo.1.1, ec=278, aex=3.539568345323741, awt=0.5071942446043165, fc=6
Oct 18, 2016 2:48:30 PM	INFO	Cc	DIAGNOSTIC	id=1476816510115, ds=Cargo.0.16, ec=0, aex=0.0, awt=0.0, fc=0
Oct 18, 2016 2:48:00 PM	INFO	Cc	DIAGNOSTIC	id=1476816480099, sthp=510.6875, shp=317.77515411376953, sex=0, stq=0, sec=278, sfc=6, saex=3.539568345323741, sawt=0.5071942446043165
Oct 18, 2016 2:48:00 PM	INFO	Cc	DIAGNOSTIC	id=1476816480099, ds=ProcessOrder.1.10, ec=0, aex=0.0, awt=0.0, fc=0
Oct 18, 2016 2:48:00 PM	INFO	Cc	DIAGNOSTIC	id=1476816480099, ds=Candidates.1.14, ec=0, aex=0.0, awt=0.0, fc=0
Oct 18, 2016 2:48:00 PM	INFO	Cc	DIAGNOSTIC	id=1476816480099, ds=AllocateTrade.1.14, ec=0, aex=0.0, awt=0.0, fc=0
Oct 18, 2016 2:48:00 PM	INFO	Cc	DIAGNOSTIC	id=1476816480099, ds=Cargo.1.1, ec=278, aex=3.539568345323741, awt=0.5071942446043165, fc=6

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, 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.

Server Details : ● NBBEDGSAIN... v5.6.0.0

Download Logs

All Most Recent

Download Cancel

Server Response and Execution

ms count

1 1

0 0

14:40 14:41 14:42 14:43 14:44 14:45 14:46 14:47 14:48 14:49

■ Average Time ■ Max. Time ■ Min. Time ■ # Executions ■ # Failures

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

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 Corticon Server for .NET'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 Corticon Server for .NET 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.

Decision Services and Applications

Types of Decision Services

Many Decision Services might be deployed on a Corticon Server. There are two types of Decision Services from the point of view of the Web Console, based on how they were deployed:

- **Managed Decision Services** are those deployed through the Web Console. For managed Decision Services the Web Console has the EDS file, and can perform more management activities such as deploying it to additional Corticon Servers. Managed Decision Services can be:
 - Added directly through the Web Console's **Add Decision Service** feature.
 - Added directly from Corticon Studio using the Studio's **Package and Deploy** feature. Studio prompts for the Application where the Decision Service will be added, and the Server or Server Group where it will be deployed.
- **Discovered Decision Services** are those deployed not through the Web Console but through another means. The management operations the Web Console can perform on discovered Decision Services is limited so as not to conflict with how they were deployed. Discovered Decision Services could be:
 - Decision Services packaged and deployed directly from Corticon Studio or any of the deployment tools.
 - These are Decision Services deployed through Corticon Deployment Descriptors (CDDs) -- text-based files that specify a Decision Service to be deployed and its deployment properties. CDD files are automatically loaded by the Corticon Server.

In most deployments, you will likely use either managed or unmanaged Decision Services. The approach you take for deployment and management depends on your needs.

How Decision Service types are displayed

When you deploy Corticon rules through CDD files, your unmanaged Decision Services are *discovered*, as shown:

▼ Discovered Decision Services						
Decision Services not deployed using the Web Console, can be viewed here but not fully managed.						
Decision Service Name ▲	Version	CDD	Server	Executions	Average Time (ms)	
✔ AllocateTrade	1.14	✔	✔ localhost:8850/axis	0	0.00	
✔ AllocateTrade	1.14	✔	✔ NBBEDGSAINTMA5:8850/axis	0	0.00	
✔ AllocateTrade	1.14	✔	✔ NBBEDGSAINTMA1:8850/axis	0	0.00	
✔ Candidates	1.14	✔	✔ NBBEDGSAINTMA5:8850/axis	0	0.00	
✔ Candidates	1.14	✔	✔ localhost:8850/axis	0	0.00	
✔ Candidates	1.14	✔	✔ NBBEDGSAINTMA1:8850/axis	0	0.00	
✔ Cargo	0.16	✔	✔ NBBEDGSAINTMA1:8850/axis	0	0.00	
✔ Cargo	0.16	✔	✔ NBBEDGSAINTMA5:8850/axis	0	0.00	
✔ Cargo	0.16	✔	✔ localhost:8850/axis	0	0.00	
✔ ProcessOrder	1.10	✔	✔ NBBEDGSAINTMA5:8850/axis	0	0.00	

1 - 10 of 12 items

When you deploy Decision Services through the Web Console, they are shown as *managed*:

Managed Decision Services				
Decision Services deployed using the Web Console, can be fully managed here.				
Decision Service Name ▲	Version	Servers	Executions	Average Time (ms)
✓ Cargo	1.1	✓ QA Group	0	0.00

When you use applications to group your Decision Services, each *managed* Application lists its Decision Services:

Managed Decision Services																			
Decision Services deployed using the Web Console, can be fully managed here.																			
Application Name ▲	Servers	Executions	Average Time (ms)																
✓ Insurance	✓ local server	0	0.00																
<table border="1"> <thead> <tr> <th>Decision Service Name ▲</th> <th>Version</th> <th>Executions</th> <th colspan="2">Average Time (ms)</th> </tr> </thead> <tbody> <tr> <td>✓ Generate Policy</td> <td>0.41</td> <td>0</td> <td colspan="2">0.00</td> </tr> <tr> <td>✓ Price Policy</td> <td>0.41</td> <td>0</td> <td colspan="2">0.00</td> </tr> </tbody> </table>					Decision Service Name ▲	Version	Executions	Average Time (ms)		✓ Generate Policy	0.41	0	0.00		✓ Price Policy	0.41	0	0.00	
Decision Service Name ▲	Version	Executions	Average Time (ms)																
✓ Generate Policy	0.41	0	0.00																
✓ Price Policy	0.41	0	0.00																

Opening the Decision Services and Applications page

1. Connect to the Web Console server where you manage Decision Services.

2. Click the **Decision Services** icon: 

The Decision Services page shows all the types of Decision Services on the managed servers, as illustrated:

Using Applications

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 Corticon 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 assigned to a server or server group managed in a Web Console. As a result, the Decision Services are immediately deployed (or redeployed) to the server or all active servers in the Server Group.

Add or Edit a Decision Service

The following procedures show to bring a Decision Service under management either as an independent Decision Service, or as a member of an Application.

Note: As the general steps are common to both adding and editing a Decision Service, this topic focuses on the tasks when adding a Decision Service, and then shows how to access a Decision Service to edit it.

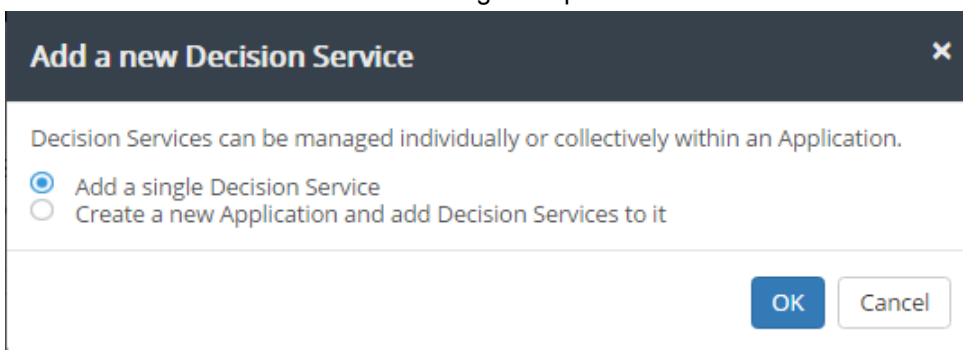
To add a Decision Service:

1. Connect to the Web Console server where you want to add Decision Services.

2. Click the **Decision Services** icon: 

3. Click **+ Add Decision Service**: 

4. The **Add a new Decision Service** dialog box opens:



5. You can choose to create an Application for the Decision Service you are adding:

- a. Enter a name. Note that this will be its name when deployed, not the name of the EDS file you choose.
- b. Add a description.
- c. Click **Choose file** to locate an EDS file.
- d. Choose a server or server group
- e. If you started this process as a single Decision Service, you can choose to add it to an existing application from the list that will be offered.

7. Click the **Database** tab to access its options:

- a. Choose **Use Execution Recording** if you have set up appropriate configuration and database settings.
- b. If you are licensed to use the Enterprise Data Connector (EDC), you can change the **Database Access Mode** option to either **Read Only** or **Read/Update** to extend the dialog tab to display additional configuration settings:

The screenshot shows a dialog box titled "Database Access Mode". It contains the following options:

- Database Access Mode:** Radio buttons for "None", "Read Only" (selected), and "Read/Update".
- Database Access Properties File:** A text input field with a "Choose File..." button next to it.
- Database Entities Returned Mode:** Radio buttons for "All Entities" (selected) and "Incoming and New Entities".
- Database Caching:** A checkbox that is currently unchecked.
- Use Execution Recording Service:** A checkbox that is currently unchecked.

At the bottom right of the dialog box are two buttons: "Add" and "Cancel".

- c. 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.*

8. Click the **Advanced** tab to access its options:

The screenshot shows the "Add Decision Service" dialog box with the "Advanced" tab selected. The dialog has four tabs: "Decision Service", "Database", "Advanced" (selected), and "Monitored Attributes".

Below the tabs, there is a heading: "Advanced properties give you greater control over the execution of a Decision Service."

The settings in the "Advanced" tab are:

- Maximum Pool Size:** A text input field.
- XML Message Style:** Radio buttons for "Auto-detect" (selected), "Flat", and "Hierarchical".
- Rule Messages Restrictions:** Three checkboxes:
 - Restrict Info Rule Messages
 - Restrict Warning Rule Messages
 - Restrict Violation Rule Messages

At the bottom of the dialog box are three buttons: "Save", "Save & Deploy", and "Cancel".

Consult the *Integration and Deployment Guide* for more information about these settings.

- a. 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**.
 - b. 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.
 - c. Set **Rule Message Restrictions** to suit your preferences.
9. Click the **Monitored Attributes** tab to access its options:

The screenshot shows a modal window titled "Add Decision Service" with a close button (X) in the top right. It has four tabs: "Decision Service", "Database", "Advanced", and "Monitored Attributes". The "Monitored Attributes" tab is active. Below the tabs, there is a text instruction: "Optionally select one or more attributes from a Decision Service to monitor to gain insight into it's processing." Below this, there are two input fields: "Attribute" and "Analysis Buckets", followed by a blue "Add" button. At the bottom of the dialog, there are three buttons: "Save", "Save & Deploy", and "Cancel".

See how to set up use Monitored Attributes in the topic [Monitored Attributes](#) on page 34

10. Click **Save** to store the Decision Service but not deploy it. Click **Save & Deploy** to store the Decision Service and also deploy it. Click **Cancel** to close without making changes.

Undeploy a Decision Service on a Server

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.

The screenshot shows the Corticon Web Console interface. The breadcrumb navigation is "Corticon Web Console > Servers > Server: localhost:8850 > Decision Service: Cargo". The main content area shows "Decision Service : ✓ Cargo v0.16" with buttons for "Edit", "Undeploy", "Test Execution", "WSDL", and "Back". A modal dialog box titled "Undeploy Decision Service" is open in the center, containing the text: "Decision Service cannot be undeployed. Please undeploy the Decision Service through cdd." and a "Cancel" button. The background shows the "General" tab of the Decision Service details, with fields for Servers (localhost), Deployed (Oct 17, 2017), Effective, Expires, Auto Reload (Yes), and Maximum Pool Size (1). There are also "Decision Service Statistics" visible at the bottom.

Decision Service General Information

General metrics are a simple table of the count of all request executions of a Decision Service 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.

The screenshot shows the Corticon Web Console interface. The breadcrumb navigation is 'Corticon Web Console > Decision Services > Decision Service: Cargo'. The user is logged in as 'admin'. The main content area displays 'Decision Service : ✔ Cargo v1.1'. Below this, there are several action buttons: 'Edit', 'Delete', 'Undeploy', 'Test Execution', 'WSDL', and 'Back'. The service is identified as a 'Tutorial Sample'. A 'General' section is expanded, showing a table of metrics:

Servers:	✔ QA Group	Execution Count:	344
Deployed:	Oct 17, 2016 4:24:25 PM	Failure Count:	8
Effective:		Average Time:	3.84 milliseconds
Expires:		Rule Count:	4
Auto Reload:	Yes	Last Execution Time:	Oct 18, 2016 1:40:25 PM
Maximum Pool Size:	1	Message Style:	Auto-detect

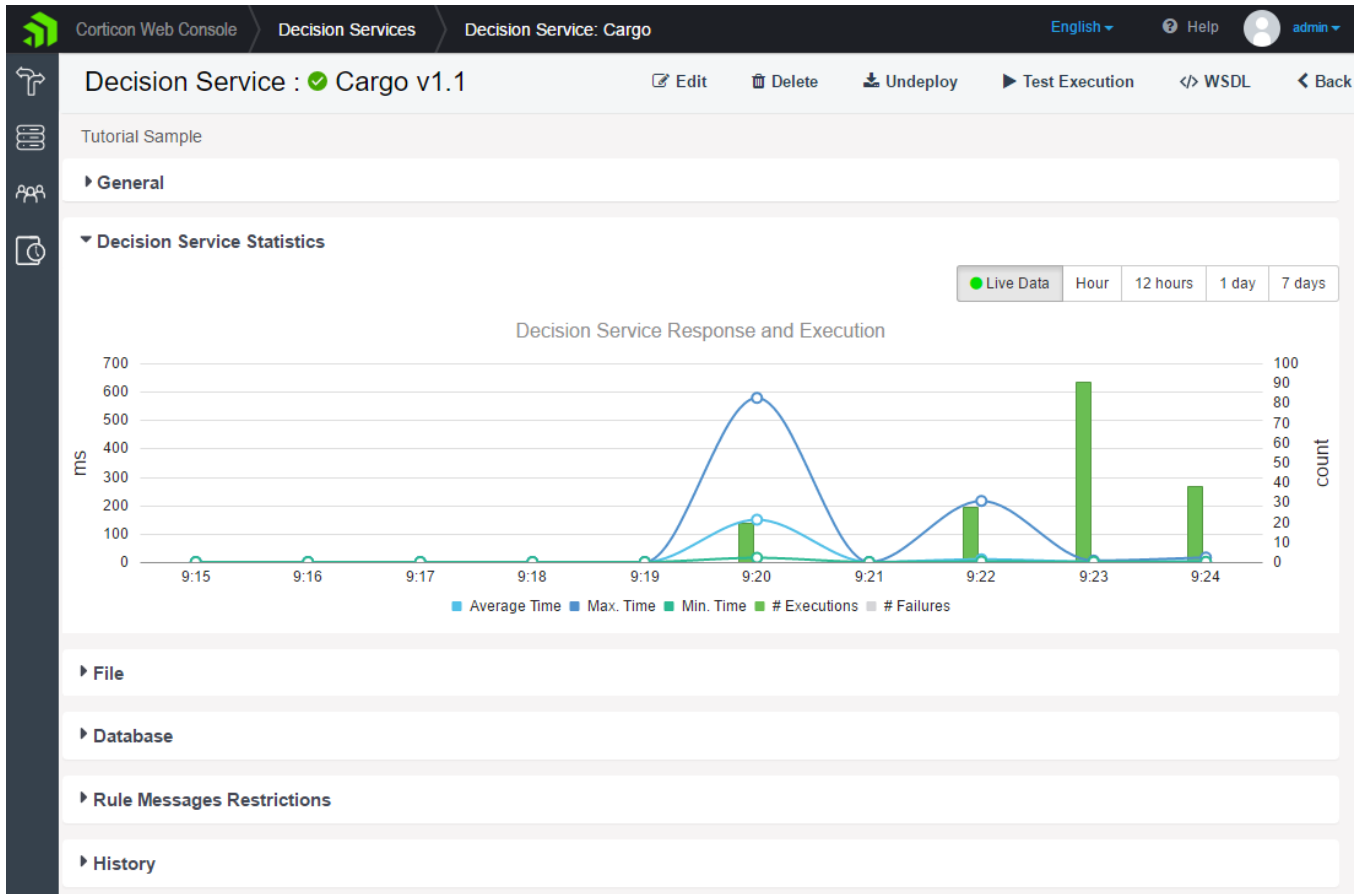
Note: These metrics are reset when a server restarts.

Decision Service Details

Click on a Decision Service to display its operational and performance data.

If the Decision Service is deployed to a Server Group, the operational and performance data is an aggregate of that Decision Service from all servers in the server group.

The actions available let you **Edit**, **Delete**, **Undeploy**, **Test Execution**, and display **WSDL**.



You can collapse and expand sections of the page to manage the display, as illustrated:

The screenshot displays the Corticon Web Console interface for a Decision Service named 'Freight1 v1.1'. The interface is organized into several expandable sections:

- General:**
 - Servers: My Five (status: green checkmark)
 - Deployed: Nov 1, 2016 6:55:29 PM
 - Effective: (blank)
 - Expires: (blank)
 - Auto Reload: Yes
 - Maximum Pool Size: 1
 - Execution Count: 0
 - Failure Count: 0
 - Average Time: 0 milliseconds
 - Rule Count: 4
 - Last Execution Time: Not Yet Executed
 - Message Style: Auto-detect
- Decision Service Statistics:** (collapsed)
- Monitored Attributes:** (collapsed)
- File:**
 - Local File: Cargo56.eds
 - EDS File Timestamp: Oct 31, 2016 1:56:42 PM
- Database:**
 - Database Access Mode: None
 - Database Access Properties File: (blank)
 - Database Entities Returned Mode: ALL
 - Database Caching: No
 - Use Execution Recording Service: No
- Rule Messages Restrictions:**
 - Restrict Info Rule Messages: System Default
 - Restrict Violation Rule Messages: System Default
 - Restrict Warning Rule Messages: System Default
- History:**
 - Created On: Oct 31, 2016 9:56:41 PM
 - Created By: admin

Application Details

The general metrics shown for an application are a rollup of the metrics of the Decision Services in the Application. For example, the average execution time shown on an application is the average execution time of all its Decision Services.

Test Execution

The **Test Execution** option lets you test your Decision Service by making a REST or SOAP request to it. When you select the Test Execution, you choose a server where the Decision Service is deployed, whether to make a REST or SOAP request, and then locate a JSON or XML file for the payload of the request.

Note: While the Decision Service name is essential for Corticon requests, this panel ignores the `decisionServiceName` parameter in the request as it is focused on the current Decision Service.

To execute a test against a selected deployment of the current Decision Service :

1. Click **Server** to select a server that has the Decision Service deployed.
2. In the **Choose Request File** area, click **Choose File**, then locate and open an XML or JSON request appropriate for the Decision Service. The **Request** area shows the request text.
3. Choose its **Request Type**.
4. Click **Execute**.

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

The screenshot displays the Corticon Web Console interface for a test execution. The breadcrumb navigation shows 'Corticon Web Console' > 'Decision Services' > 'Application: Cargo' > 'Test Execution: Cargo'. The user is logged in as 'admin'. The main area is titled 'Test Execute: Cargo' and includes an 'Execute' button and a 'Back' link.

The 'Server' dropdown is set to 'NBBEDGSAINTMA1:8850/axis'. The 'Choose Request File' section has a 'Choose File...' button and a text input field containing 'Sample.xml'. The 'Request Type' section has two radio buttons: 'REST/JSON' (unselected) and 'SOAP/XML' (selected).

The 'Request' section contains the following XML text:

```
<?xml version="1.0" encoding="UTF-8"?>
<CorticonRequest xmlns="urn:Corticon" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
decisionServiceName="InsertDecisionServiceName">
  <WorkDocuments>
    <Cargo id="Cargo_id_1">
      <weight>1000</weight>
      <volume>10</volume>
      <container xsi:nil="true" />
    </Cargo>
    <Cargo id="Cargo_id_2">
      <weight>1000</weight>
      <volume>40</volume>
      <container xsi:nil="true" />
    </Cargo>
    <Cargo id="Cargo_id_3">
      <weight>30000</weight>
      <volume>20</volume>
    </Cargo>
  </WorkDocuments>
</CorticonRequest>
```

The 'Response' section contains the following XML text:

```
<?xml version="1.0" encoding="UTF-8"?><CorticonResponse xmlns="urn:Corticon" decisionServiceName="Cargo"
decisionServiceTargetVersion="1.1">
  <WorkDocuments>
    <Cargo id="Cargo_id_1">
      <container>standard</container>
      <volume>10</volume>
      <weight>1000</weight>
    </Cargo>
    <Cargo id="Cargo_id_2">
      <container>oversize</container>
      <volume>40</volume>
      <weight>1000</weight>
    </Cargo>
    <Cargo id="Cargo_id_3">
      <container>heavyweight</container>
      <volume>20</volume>
      <weight>30000</weight>
    </Cargo>
  </WorkDocuments>
</CorticonResponse>
```

WSDL

The **WSDL** option displays the current Decision Service's WSDL, and also provides a link to WSDL data in an editor:

The screenshot shows the Corticon Web Console interface. A modal window titled "WSDL" is open, displaying the following XML content:

```
<?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="Cargo.eds"/>
        <xsd:attribute name="decisionServiceTargetVersion" use="optional" type="xsd:nonNegativeInteger"/>
        <xsd:attribute name="decisionServiceEffectiveTimestamp" use="optional" type="xsd:dateTime"/>
      </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="Cargo.eds"/>
        <xsd:attribute name="decisionServiceTargetVersion" use="optional" type="xsd:nonNegativeInteger"/>
        <xsd:attribute name="decisionServiceEffectiveTimestamp" use="optional" type="xsd:dateTime"/>
      </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:sequence>
      </xsd:complexType>
    </xsd:schema>
  </types>
  <message name="CorticonRequest" type="tns:CorticonRequest"/>
  <message name="CorticonResponse" type="tns:CorticonResponse"/>
  <portType name="CorticonRequest" type="tns:CorticonRequest"/>
  <portType name="CorticonResponse" type="tns:CorticonResponse"/>
  <binding name="CorticonRequest" type="tns:CorticonRequest"/>
  <binding name="CorticonResponse" type="tns:CorticonResponse"/>
  <service name="CorticonRequest" type="tns:CorticonRequest"/>
  <service name="CorticonResponse" type="tns:CorticonResponse"/>
</definitions>
```

Below the WSDL content, the "Cargo v1.1 WSDL URL:" is displayed as <http://NBBEDGSAINTMA5:8850/axis/dswsdl/Cargo/1/1>. A "Close" button is visible in the bottom right corner of the modal.

The background of the screenshot shows the Corticon Web Console interface. The top navigation bar includes "Corticon Web Console", "Decision Services", and "Decision Service: Cargo". The left sidebar shows a tree view with "Dec" selected. The main area displays a performance chart with a y-axis labeled "ms" (0 to 18) and an x-axis labeled "count" (0 to 100). Below the chart, there are sections for "File" (Local File: Cargo.eds, EDS File Timestamp: Oct 17, 2016 4:24:24 PM) and "Database" (Database Access Mode: None, Database Entities Returned: ALL, Database Access Properties File: , Database Caching: No, Use Execution Recording Service: No).

Monitored Attributes

The Web Console lets you monitor the value distribution of one or more attributes in a deployed Decision Service. By choosing attributes to monitor, you can view the statistical breakdown of attribute values over the course of many Decision Service executions.

For example, the Ruleflow created in the [Tutorial: Basic Rule Modeling in Corticon Studio](#) reads integer values for `Cargo.volume` and `Cargo.weight` in the request, and assigns a text value to the attribute `Cargo.container`. To monitor these attributes, select the name in the **Monitored Attribute** dialog, enter comma-separated values or value ranges in the **Analysis Buckets** entry area, and then click **Add**.

When you set *bucket* ranges of values, you can analyze categories of data. Bucketing is useful when a wide range of numeric or date data is possible. For this example, the three buckets for `Cargo.volume` are 1 to 30 kilos, 31 to 99 kilos, and greater than 99.

Entering no values can be useful for string values, especially when there is a small set of values defined in a Custom Data Type (such as `Cargo.container` in this example), or there is small set of known values, such as risk ratings `high`, `medium`, `low`.

The monitored attributes in this example are listed as shown:

Edit Decision Service ✕

Decision Service
Database
Advanced
Monitored Attributes

Optionally select one or more attributes from a Decision Service to monitor to gain insight into it's processing.

Select or Search Attribute

Analysis Bucket

Add

Attribute	Analysis Bucket	Actions
Cargo.container		Remove
Cargo.volume	1..30,31..99,>99	Remove
Cargo.weight	1..3,4..9,10..29,30..89,>89	Remove

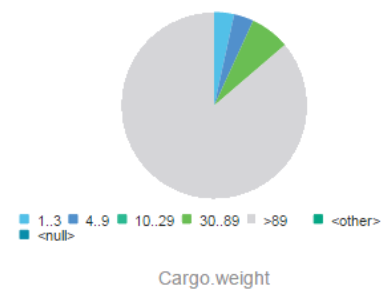
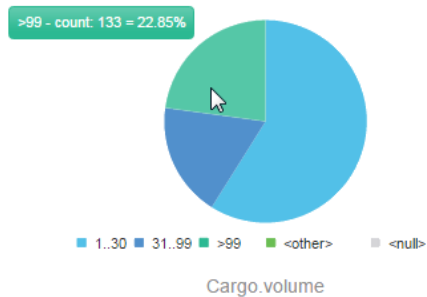
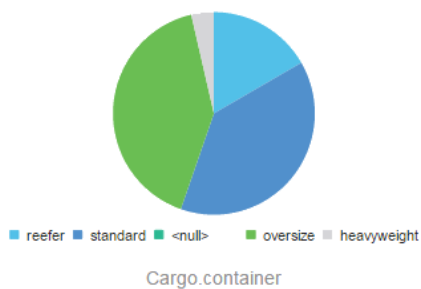
Save

Cancel

Click **Save** to enable your selections.

In this example, the integer values are examined across narrower ranges than the rules, perhaps as a study to see whether new container categories should be considered. The results of attribute monitoring are visualized as follows:

▼ Monitored Attributes



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 activity log:

1. Connect to the Web Console server where you want to view the Activity Log.

2. Click the **Activity Log** icon:




The Activity Log page opens and displays the log in a three-column table:

The screenshot shows the Corticon Web Console Activity Log interface. The page title is "Activity Log" and it includes a "Configuration" button. The log is filtered by "All" for User, Component, Action, and Status. The date range is set from 9/19/16 to 10/19/16. The log table has the following data:

Time	User Name	Message
Oct 18, 2016 2:20:48 PM		✔ Connection to "NBBEDGSAINTMA5:8850/axis" established
Oct 18, 2016 2:20:48 PM		✔ Connection to "NBBEDGSAINTMA1:8850/axis" established
Oct 18, 2016 2:20:47 PM		✔ Connection to "localhost:8850/axis" established
Oct 18, 2016 2:05:06 PM	admin	✔ Application "nbbedmciel2" successfully removed
Oct 18, 2016 2:04:37 PM	admin	✔ Server "nbbedmciel2" successfully removed
Oct 18, 2016 2:04:36 PM	admin	✔ Decision Service "nbbedmciel2" successfully undeployed from "nbbedmciel2:8850/axis"
Oct 18, 2016 2:04:32 PM	admin	✔ Server "nbbedmciel2_2" successfully removed
Oct 18, 2016 2:04:21 PM		✘ Connection to "nbbedmciel2:8087/axis" failed
Oct 18, 2016 2:04:09 PM	admin	✔ Server nbbedmciel2_2 successfully added
Oct 18, 2016 2:04:09 PM	admin	✘ Connection to "nbbedmciel2:8087/axis" failed

The pagination bar shows "Page: 29 / 41" and a list of page numbers from 21 to 30, with 29 selected.

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 *Failed* log message, and then click on the information icon  at the end of that line. An alert opens with additional information on the issue.

You can filter the table to view a subset of the log messages. To do this, select the filters you want from the drop-down lists, 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 to narrow the information to only log messages recorded between specified dates.

The screenshot shows the 'Activity Log' page in the Corticon Web Console. At the top, there are navigation links for 'Corticon Web Console' and 'Activity Log', along with language and help options. The main area features a filter bar with dropdown menus for 'User', 'Component', 'Action', and 'Status' (set to 'Failed'). There are also date range inputs for 'From' and 'To'. A 'Filter' button and a 'Page Size' dropdown (set to 10) are also present. Below the filter bar is a table with the following data:

Time	User Name	Message
Oct 18, 2016 5:12:48 PM		Connection to "NBBEDGSAINTMA5:8850/axis" failed
Oct 18, 2016 5:09:33 PM		Connection to "NBBEDGSAINTMA1:8850/axis" failed
Oct 18, 2016 2:04:21 PM		Connection to "nbbedmccel2:8087/axis" failed
Oct 18, 2016 2:04:09 PM	admin	Connection to "nbbedmccel2:8087/axis" failed
Oct 18, 2016 2:04:06 PM	admin	Execute of Decision Service "Cargo" on "NBBEDGSAINTMA1:8850/axis" Failed
Oct 18, 2016 2:04:06 PM	admin	Execute of Decision Service "Cargo" on "NBBEDGSAINTMA1:8850/axis" Failed
Oct 18, 2016 2:04:06 PM	admin	Execute of Decision Service "Cargo" on "NBBEDGSAINTMA1:8850/axis" Failed
Oct 18, 2016 2:04:06 PM	admin	Execute of Decision Service "Cargo" on "NBBEDGSAINTMA1:8850/axis" Failed
Oct 18, 2016 2:04:06 PM	admin	Execute of Decision Service "Cargo" on "NBBEDGSAINTMA5:8850/axis" Failed
Oct 18, 2016 2:04:06 PM	admin	Execute of Decision Service "Cargo" on "NBBEDGSAINTMA1:8850/axis" Failed

At the bottom of the table, there are pagination controls: 'First', 'Previous', '1', '2', 'Next', 'Last'. Below that, it says 'Page: 1 / 2'.

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 43.

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 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.

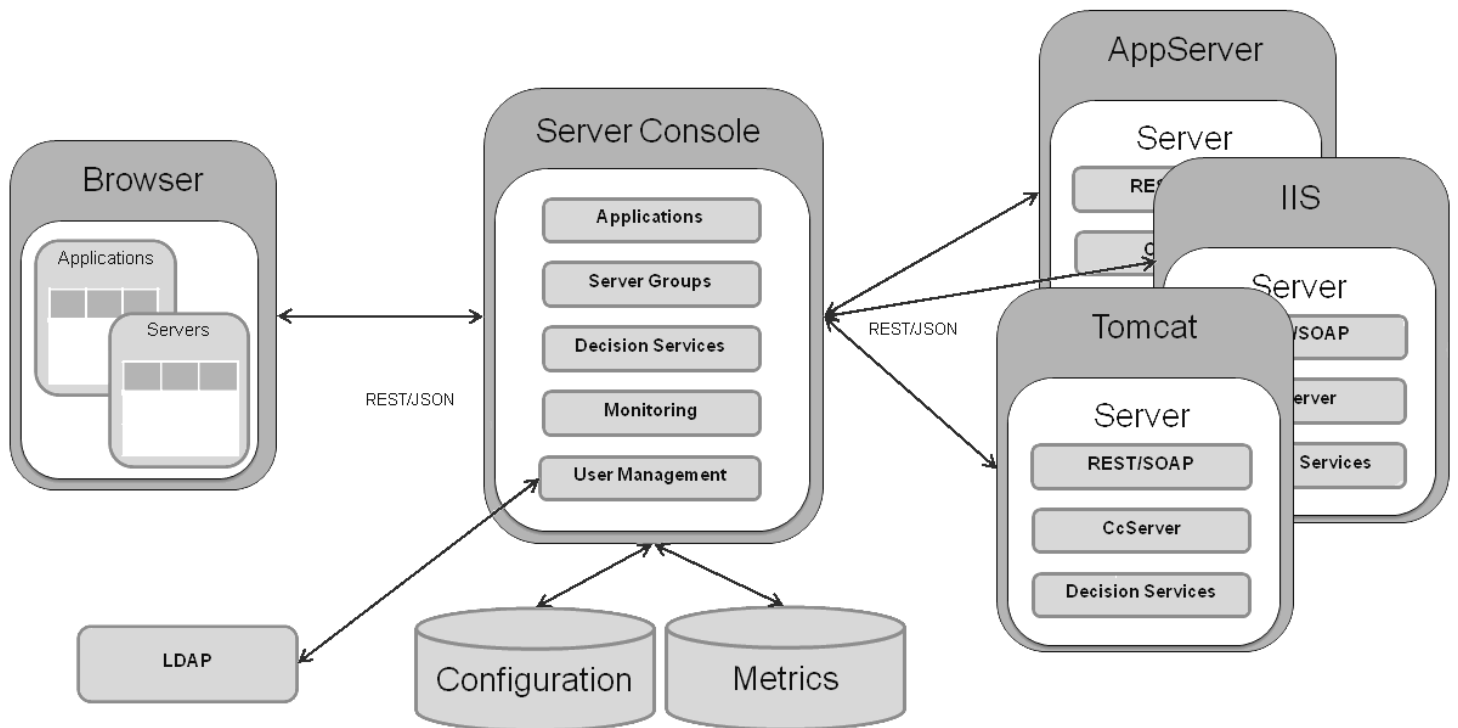
Your selection is retained on the Web Console Server where you logged on so that when you later log on to that Web Console Server from another browser or device, it has the record of your preference.

You can change your participation at 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 (`corticon.war`) 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:



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 Corticon Server for .NETs.
- REST/JSON is used for communication between the browser and the Web Console and between the Web Console and the Corticon Server.
- 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 Corticon Server for .NET installers are in one installer, together with the new Web Console. See the *Corticon Installation Guide* for more information. See the Progress Software web page [Progress Corticon 5.6 - 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

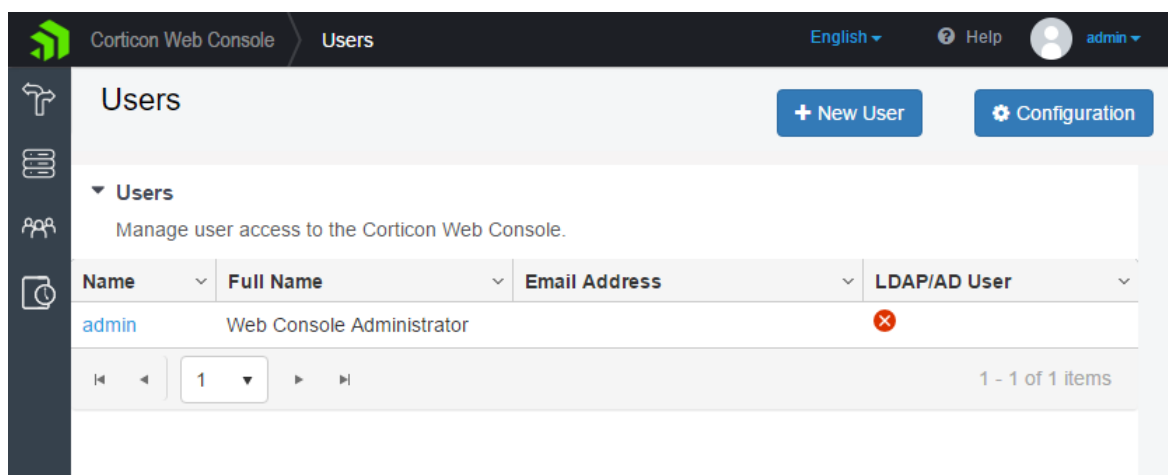
The Web Console provides secure access. The administrator (User Name `admin`) is a preset user that cannot be deleted. You can change the administrator's password -- that's a task you should do as soon as you get started with the Web Console and take the administrator's role.

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 display users:

1. Connect to the Web Console server as `admin` where you want to manage users.

2. Click the **Users** icon:  The Users page opens:



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.

The screenshot shows the 'Users' management interface in the Corticon Web Console. The page title is 'Users' and the breadcrumb is 'Users'. A '+ New User' button is located in the top right corner. Below the title, there is a section titled 'Users' with the instruction 'Manage user access to the Corticon Web Console.' A table lists the users:

Name	Full Name	Email Address	LDAP/AD U
admin	Web Console Administrator		✘
ahamilton	Alexander Hamilton	ahamilton@history.gov	✘

At the bottom of the table, there is a pagination control showing '1' of 1 items.

Using LDAP for Web Console authentication

You can set up Corticon Web Console to authenticate users using an LDAP server. To configure LDAP authentication, edit the file `CorticonServerConsoleConfig.groovy` located in `[CORTICON_WORK_DIR]\etc`.

Uncomment all property lines in this file and enter values for the first four properties. Here is an example:

```
/*Configure the manager distinguished name based on your ldap configuration*/
grails.plugin.springsecurity.ldap.context.managerDn = 'uid=admin,ou=system'

/*Ldap password*/
grails.plugin.springsecurity.ldap.context.managerPassword = 'secret'

/*Ldap server url */
grails.plugin.springsecurity.ldap.context.server = 'ldap://localhost:10389'

/*Ldap search base*/
grails.plugin.springsecurity.ldap.search.base = 'o=mojo,ou=groups'
```

To map Web Console Admin and User roles to LDAP user groups, specify the user group names in the `ldap{ }` section at the bottom as shown. Use commas to define multiple user groups for each role.

```
corticon
{
  ldap {
    admin = "Admin,DBAdmin"
    users = "User,Analyst,Developer"
    authenticateUsersWithGroups = "false" //This flag is used to
    authenticate the Admin and User groups listed above. If the flag is
    false, and the group is not listed above, the user will be defaulted
    to user role.
  }
}
```

After setting these properties, save the file and restart Corticon Server. LDAP users can log then in to Web Console using their LDAP user credentials. Once an LDAP user logs in, they are added to the **USERS** page in Web Console.

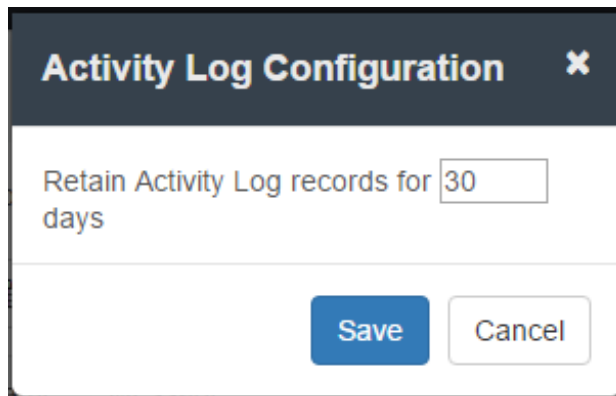
Note: Setting up LDAP authentication adds LDAP users to the Web Console user base. You can add other users in the **USERS** page and have them access Web Console using their Web Console user credentials.

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.

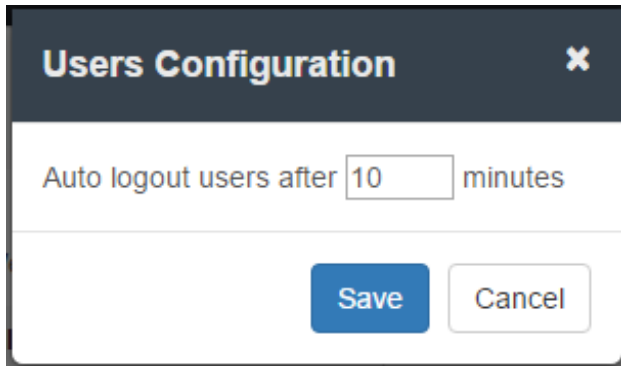


To know more about viewing and filtering the Activity Log, see the topic [Viewing the Activity Log](#) on page 36.

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:



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.

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Access to Corticon knowledge resources

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

Corticon online tutorials available in the [Corticon Learning Center](#):

- [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](#)
- [Deploying a Progress Corticon Decision Service as a Web Service for Java](#)
- [Deploying a Progress Corticon Decision Service in process for Java](#)
- [Using Corticon Business Rules in a Progress OpenEdge Application](#)

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 Server API](#)
- [CorticonExtensions 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.