

**IBM® Content Analytics with Enterprise Search**

**Exploring the System Dashboard**

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# Exploring the System Dashboard

The screenshot displays the IBM Content Analytics System Dashboard. At the top, the IBM logo and 'IBM Content Analytics with Enterprise Search' are visible, along with navigation links for 'Search Customizer', 'Analytics Customizer', 'Log Out', 'Help', and 'About'. Below this, there are tabs for 'Collections', 'System', and 'Security', with 'System' being the active tab. A secondary navigation bar includes 'Server Configuration', 'Data Listener', 'Parse', 'Search', and 'Log'. The main content area features several buttons: 'Add Server', 'Configure IBM InfoSphere BigInsights Server', 'Start Selected Servers', and 'Stop Selected Servers'. A 'Server Information' table lists various host names and their roles. A 'Topology View' section shows a network diagram of the servers. A central callout box provides instructions on using the System dashboard.

Host name	Crawler	Controller	Document Processing	Search	Backup	Status	Actions
node4.ibm.com		✓	✓		✓	●	✕
node0.ibm.com		✓	✓			●	
<input type="checkbox"/> node3.ibm.com						●	✕
<input type="checkbox"/> node1.ibm.com						●	✕
<input type="checkbox"/> node2.ibm.com						●	✕
<input type="checkbox"/> hadoop.ibm.com						●	

Use the **System** dashboard to monitor servers, add servers to the system topology, and administer system-wide activities, such as configuring search options that can be used by multiple collections.

Topology View

node3.ibm.com

node1.ibm.com

node2.ibm.com

hadoop.ibm.com

node0.ibm.com

node4.ibm.com

# Exploring the System Dashboard

IBM Content Analytics with Enterprise Search

Search Customizer | Analytics Customizer | Log Out | Help | About

Collections System Security

Server Configuration Data Listener Parse Search Log

\* Add Server \* Configure IBM InfoSphere BigInsights Server Start Selected Servers Stop Selected Servers

Host name	Crawler	Controller	Document Processing	Search	Backup	Status	Actions
node4.ibm.com		✓	✓		✓	●	✕
node0.ibm.com		✓	✓			●	
<input type="checkbox"/> node3.ibm.com						●	✕ ✕
<input type="checkbox"/> node1.ibm.com						●	✕ ✕
<input type="checkbox"/> node2.ibm.com						●	✕ ✕
<input type="checkbox"/> hadoop.ibm.com						●	

Topology View

On the **Server Configuration** page, you can tell at a glance which servers are stopped or running and see purpose of each server.

Two views let you choose how to monitor and administer servers: a table view that lists all servers, and a topology view that lets you see how the servers are connected.

node3.ibm.com node1.ibm.com node2.ibm.com hadoop.ibm.com node0.ibm.com node4.ibm.com

## Exploring the System Dashboard

The screenshot displays the IBM Content Analytics with Enterprise Search System Dashboard. The top navigation bar includes the IBM logo, the product name, and links for Search Customizer, Analytics Customizer, Log Out, Help, and About. Below this, there are tabs for Collections, System, and Security. The main content area is divided into several sections:

- Server Configuration:** Includes buttons for Add Server, Configure IBM InfoSphere BigInsights Server, Start Selected Servers, and Stop Selected Servers.
- Server Information Table:** A table with columns for Host name, Crawler, Controller, Document, Search, Backup, Status, and Actions. The Controller column is highlighted, and a tooltip explains its role: "One master controller server handles system processes, document processing, and index builds. This server must be available and cannot be stopped." A yellow callout box also provides a general explanation of hover help.
- Topology View:** A network diagram showing the physical layout of the servers. The Controller server (node0.ibm.com) is centrally located and connected to all other nodes (node1.ibm.com, node2.ibm.com, node3.ibm.com, node4.ibm.com, and hadoop.ibm.com).

Host name	Crawler	Controller	Document	Search	Backup	Status	Actions
node4.ibm.com		✓			✓	●	✕
node0.ibm.com		✓				●	
node3.ibm.com			✓			●	✕
node1.ibm.com				✓		●	✕
node2.ibm.com				✓		●	✕
hadoop.ibm.com						●	

**Hover help text:** Hover help explains the purpose of each server and explains why some actions might not be available. For example, the Controller cannot be stopped because it must remain available to all other servers.

**Controller tooltip text:** One master controller server handles system processes, document processing, and index builds. This server must be available and cannot be stopped.

# Exploring the System Dashboard

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The main content area features several action buttons: "Add Server", "Configure IBM InfoSphere BigInsights Server", "Start Selected Servers", and "Stop Selected Servers". Below these is a "Server Information" table with columns for Host name, Crawler, Controller, Document Processing, Search, Backup, Status, and Actions. The table lists several nodes: node4.ibm.com, node0.ibm.com, node3.ibm.com, node1.ibm.com, node2.ibm.com, and hadoop.ibm.com. The Backup column for node0.ibm.com is highlighted, with a yellow tooltip explaining that a backup server provides high availability support and cannot be stopped. Another tooltip for the Backup column explains that a backup server provides high availability for a master server and can be removed from the topology but not stopped or started.

At the bottom, a "Topology View" shows a network diagram with nodes represented by server icons and a cloud icon. The nodes are labeled: node3.ibm.com, node1.ibm.com, node2.ibm.com, hadoop.ibm.com, node0.ibm.com, and node4.ibm.com. Lines connect the nodes, showing their interconnections.

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Host name	Crawler	Controller	Document Processing	Search	Backup	Status	Actions
node4.ibm.com		✓	✓		✓	●	✕
node0.ibm.com		✓	✓			●	
<input checked="" type="checkbox"/> node3.ibm.com		✓	✓			●	✕
<input type="checkbox"/> node1.ibm.com						●	
<input type="checkbox"/> node2.ibm.com						●	
<input type="checkbox"/> hadoop.ibm.com						●	

**Topology View**

The topology view shows a central server icon connected to several other server icons. The servers are labeled: *node3.ibm.com*, *node1.ibm.com*, *node2.ibm.com*, *hadoop.ibm.com*, *node0.ibm.com*, and *node4.ibm.com*. Each server icon includes a status indicator (green dot) and a red square icon.

**Status Icons**

Status icons let you see which servers are running or stopped. You can click the icons to start and stop individual servers.

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Host name	Crawler	Controller	Document Processing	Search	Backup	Status	Actions
node4.ibm.com		✓	✓		✓	●	✕
node0.ibm.com		✓	✓			●	
node3.ibm.com			✓			●	✕
node1.ibm.com			✓	✓		●	✕ Stop the server.
node2.ibm.com				✓		●	✕
hadoop.ibm.com						●	

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Host name	Crawler	Controller	Document Processing	Search	Backup	Status	Actions
node4.ibm.com		✓	✓		✓	●	✕
node0.ibm.com		✓	✓			●	
node3.ibm.com			✓			●	✕
node1.ibm.com			✓	✓		●	✕
node2.ibm.com			✓	✓		●	✕
hadoop.ibm.com						●	

Topology View

```
graph TD; node0((node0.ibm.com)) --- node1((node1.ibm.com)); node0 --- node2((node2.ibm.com)); node0 --- node3((node3.ibm.com)); node0 --- node4((node4.ibm.com)); node0 --- hadoop((hadoop.ibm.com));
```



# Exploring the System Dashboard

IBM Content Analytics with Enterprise Search Search Customizer | Analytics Customizer | Log Out | Help | About

Collections System Security

Server Configuration Data Listener Parse Search Log

\* Add Server \* Configure IBM InfoSphere BigInsights Server Start Selected Servers Stop Selected Servers

Server Information

Host name	Crawler	Controller	Document Processing	Search	Backup	Status	Actions
node4.ibm.com		✓	✓		✓	●	✕
node0.ibm.com		✓	✓			●	
<input checked="" type="checkbox"/> node3.ibm.com			✓			●	✕
<input checked="" type="checkbox"/> node1.ibm.com				✓		●	✕
<input type="checkbox"/> node2.ibm.com				✓		●	✕
<input type="checkbox"/> hadoop.ibm.com						●	

Topology View

node3.ibm.com node1.ibm.com node2.ibm.com node0.ibm.com node4.ibm.com hadoop.ibm.com

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The main content area features several action buttons: Add Server, Configure IBM InfoSphere BigInsights Server, Start Selected Servers, and Stop Selected Servers. Below these is a 'Server Information' table with columns for Host name, Crawler, Controller, Document Processing, Search, Backup, Status, and Actions.

Host name	Crawler	Controller	Document Processing	Search	Backup	Status	Actions
node4.ibm.com		✓	✓		✓	●	✕
node0.ibm.com		✓	✓			●	
<input checked="" type="checkbox"/> node3.ibm.com			✓			●	✕
<input checked="" type="checkbox"/> node1.ibm.com				✓		●	✕
<input type="checkbox"/> node2.ibm.com						●	✕
hadoop.ibm.com						●	

Below the table is a 'Topology View' showing a network diagram. It includes nodes for node3.ibm.com, node2.ibm.com, node0.ibm.com, node4.ibm.com, and hadoop.ibm.com, connected by lines representing network links. A yellow callout box points to the 'View detailed query' icon in the Actions column of the table, containing the following text:

When you monitor a search server, you can click an icon to see detailed statistics about query processing, such as the number of queries that were processed and the most popular queries.

In addition to exploring statistics interactively, you can export them to a CSV file and then import them into a spreadsheet or other application.

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Host name	Crawler	Controller	Document Processing	Search	Backup	Status	Actions
node4.ibm.com		✓				●	✕
node0.ibm.com		✓				●	
node3.ibm.com						●	✕
node1.ibm.com						●	✕
node2.ibm.com						●	✕
hadoop.ibm.com						●	

A 'Topology View' section below the table shows a network diagram with server icons and status indicators connected to a central controller. A tooltip explains that users can monitor servers by viewing either the table or topology view, and that the table view can be collapsed to show a larger map of server connections.

You can monitor servers by viewing only the table view or only the topology view. For example, you might want to collapse the table view so that you can see a larger map of how the servers connect.

Click to collapse this section

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The screenshot displays the IBM Content Analytics with Enterprise Search interface. At the top, the IBM logo and product name are visible, along with navigation links for Search Customizer, Analytics Customizer, Log Out, Help, and About. Below this, there are tabs for Collections, System, and Security. A secondary navigation bar includes Server Configuration, Data Listener, Parse, Search, and Log. The main content area features several action buttons: Add Server, Configure IBM InfoSphere BigInsights Server, Start Selected Servers, and Stop Selected Servers. The 'Topology View' section shows a network diagram with five server nodes: hadoop.ibm.com, node0.ibm.com, node1.ibm.com, node2.ibm.com, and node4.ibm.com. A yellow callout box points to the nodes, stating: "You can also see details about each server, such as the host name and IP address, and the purpose or role of each server." A tooltip for node4.ibm.com is visible, listing: Backup: node4.ibm.com, IP Address: 0.0.0.4, and Role: Controller, Document Processing.

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## Exploring the System Dashboard

The screenshot shows the IBM Content Analytics with Enterprise Search interface. At the top, there is a dark blue header with the IBM logo and the text 'IBM Content Analytics with Enterprise Search'. To the right of the header are links for 'Search Customizer | Analytics Customizer | Log Out | Help | About'. Below the header is a navigation bar with three tabs: 'Collections', 'System' (which is selected), and 'Security'. Underneath the navigation bar, the breadcrumb path 'System : Server Configuration > Add Server' is displayed. The main content area is titled 'Add a Server'. It includes a 'Learn more' link, a paragraph explaining that additional servers can be added to improve throughput and provide failover support, and a note that servers added depend on the installation type (one server or distributed). Below this text are three input fields: 'Host name' (an empty text box), 'CCL port' (a text box containing '6002'), and 'Server role' (a dropdown menu with 'Master crawler' selected). At the bottom left of the form are 'OK' and 'Cancel' buttons. A purple callout box on the right side of the form contains a lightbulb icon and the text: 'Before you add a server, you must run the IBM Content Analytics with Enterprise Search installation program on the server and specify that you are installing an additional server.'

**IBM** IBM Content Analytics with Enterprise Search Search Customizer | Analytics Customizer | Log Out | Help | About

Collections System Security

System : Server Configuration > Add Server

### Add a Server

[Learn more](#)

To improve throughput and provide failover support, you can add additional servers.  
The servers that you can add depend on whether you installed the product on one server or distributed servers.  
To change a server after you add it, you must remove it from the system topology and then add it again.

Host name:

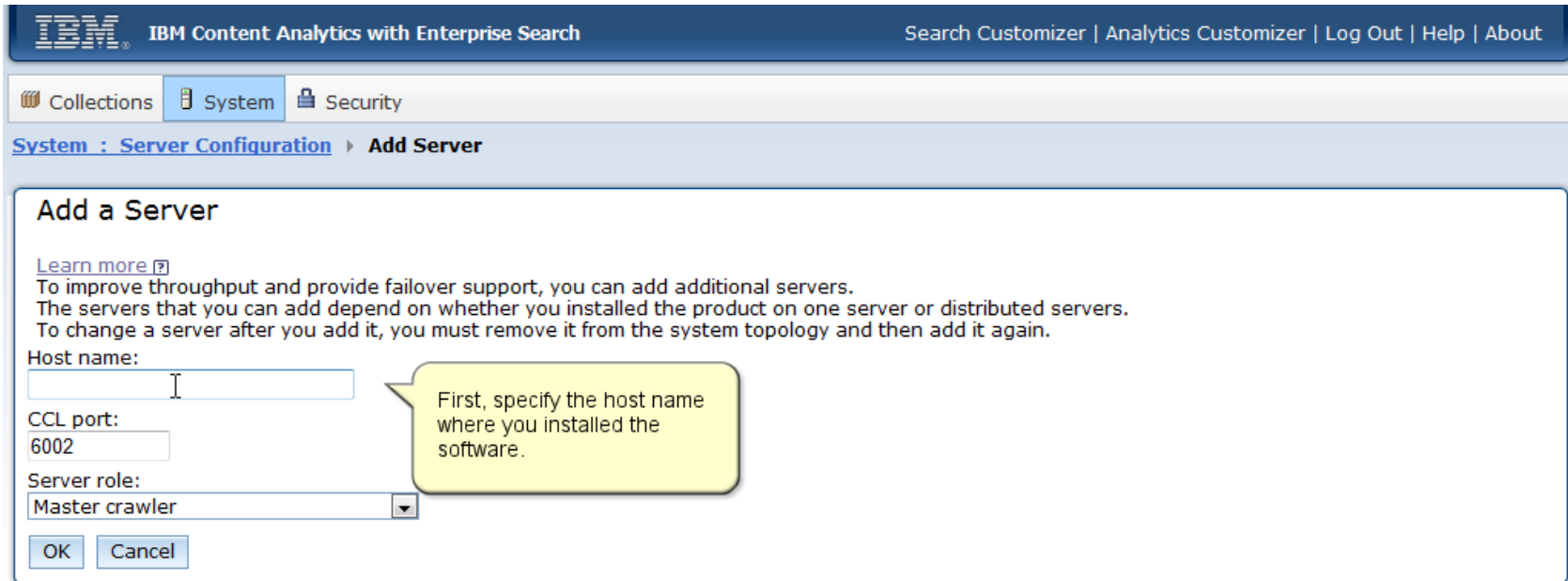
CCL port:

Server role:

Before you add a server, you must run the IBM Content Analytics with Enterprise Search installation program on the server and specify that you are installing an additional server.



## Exploring the System Dashboard



**IBM** IBM Content Analytics with Enterprise Search Search Customizer | Analytics Customizer | Log Out | Help | About

Collections System Security

System : Server Configuration > Add Server

### Add a Server

[Learn more](#)

To improve throughput and provide failover support, you can add additional servers.  
The servers that you can add depend on whether you installed the product on one server or distributed servers.  
To change a server after you add it, you must remove it from the system topology and then add it again.

Host name:

CCL port: 6002

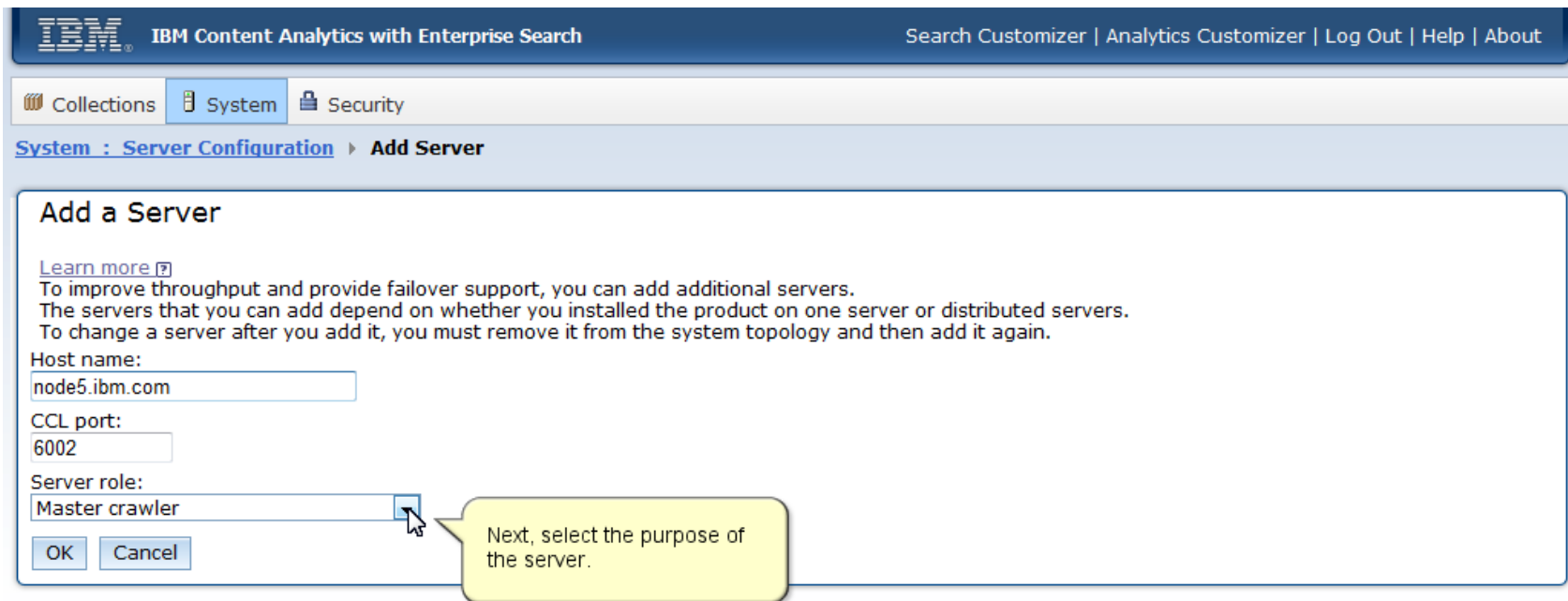
Server role: Master crawler

OK Cancel

First, specify the host name where you installed the software.



## Exploring the System Dashboard



**IBM** IBM Content Analytics with Enterprise Search Search Customizer | Analytics Customizer | Log Out | Help | About

**Collections** **System** **Security**

**System** : [Server Configuration](#) > **Add Server**

### Add a Server

[Learn more](#)

To improve throughput and provide failover support, you can add additional servers.  
The servers that you can add depend on whether you installed the product on one server or distributed servers.  
To change a server after you add it, you must remove it from the system topology and then add it again.

Host name:

CCL port:

Server role:

Next, select the purpose of the server.

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The screenshot shows the IBM Content Analytics with Enterprise Search interface. The top navigation bar includes the IBM logo, the product name, and links for Search Customizer, Analytics Customizer, Log Out, Help, and About. Below this is a secondary navigation bar with tabs for Collections, System, and Security. The main content area is titled 'System : Server Configuration > Add Server'. The 'Add a Server' section contains a 'Learn more' link and explanatory text. It features three input fields: 'Host name' (node5.ibm.com), 'CCL port' (6002), and a 'Server role' dropdown menu. The dropdown menu is open, showing options: Master crawler, Backup controller for high availability, Search, Document processing, and Document processing and search (which is highlighted by the mouse cursor).

**IBM** IBM Content Analytics with Enterprise Search Search Customizer | Analytics Customizer | Log Out | Help | About

**Collections** **System** Security

**System : Server Configuration > Add Server**

### Add a Server

[Learn more](#)

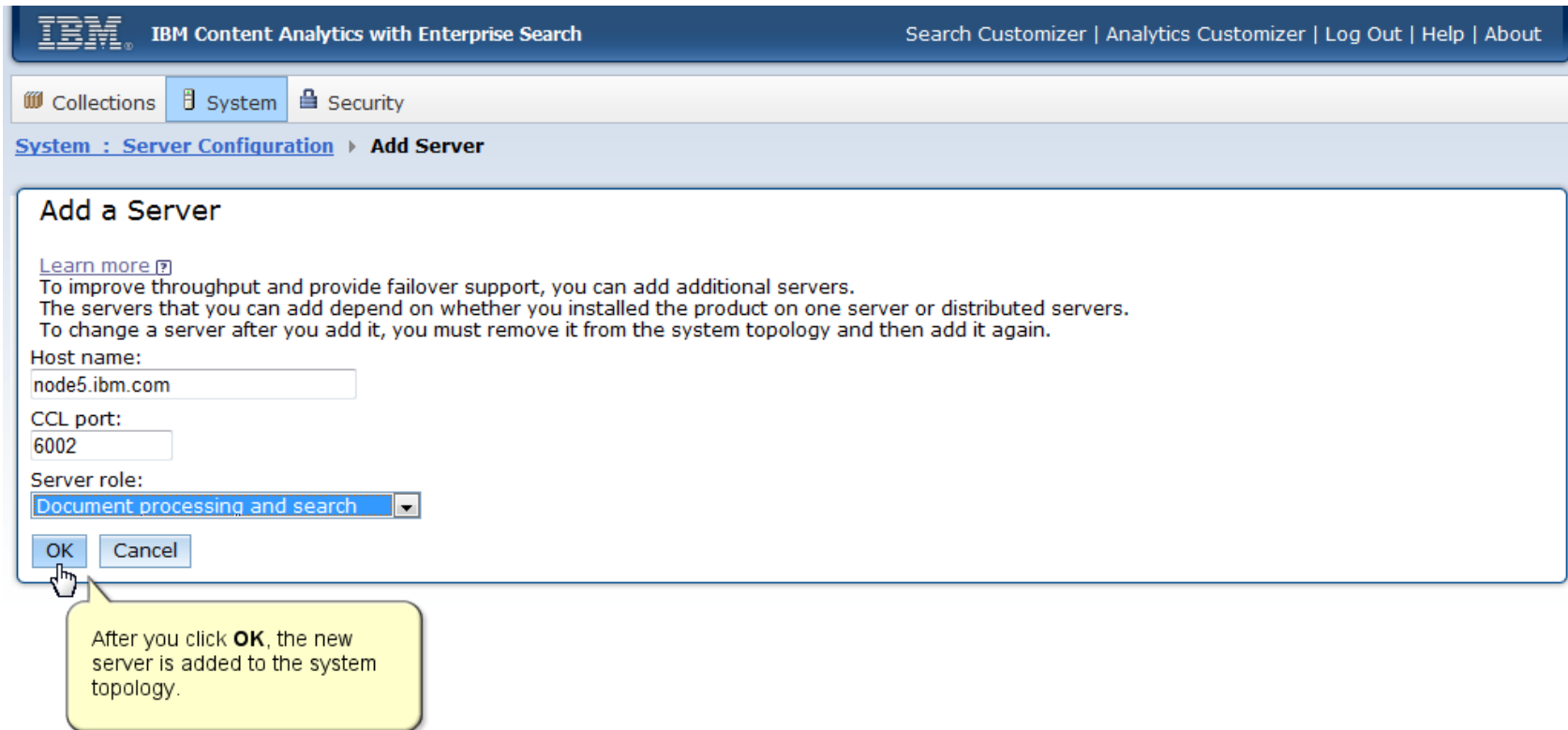
To improve throughput and provide failover support, you can add additional servers. The servers that you can add depend on whether you installed the product on one server or distributed servers. To change a server after you add it, you must remove it from the system topology and then add it again.

Host name:

CCL port:

Server role:  
  
Master crawler  
Backup controller for high availability  
Search  
Document processing  
**Document processing and search**

## Exploring the System Dashboard



**IBM** IBM Content Analytics with Enterprise Search Search Customizer | Analytics Customizer | Log Out | Help | About

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System : Server Configuration > Add Server

### Add a Server

[Learn more](#)

To improve throughput and provide failover support, you can add additional servers. The servers that you can add depend on whether you installed the product on one server or distributed servers. To change a server after you add it, you must remove it from the system topology and then add it again.

Host name:

CCL port:

Server role:

After you click **OK**, the new server is added to the system topology.

## Exploring the System Dashboard

IBM Content Analytics with Enterprise Search Search Customizer | Analytics Customizer | Log Out | Help | About

Collections System Security

Server Configuration Data Listener Parse Search Log

Add Server Configure IBM InfoSphere BigInsights Server Start Selected Servers Stop Selected Servers

Host name	Crawler	Controller	Document Processing	Search	Backup	Status	Actions
node0.ibm.com						●	
node4.ibm.com					✓	●	✕
<input type="checkbox"/> node3.ibm.com				✓		●	✕
<input type="checkbox"/> node1.ibm.com				✓		●	✕
<input type="checkbox"/> node2.ibm.com						●	✕
<input type="checkbox"/> hadoop.ibm.com						●	

On a Linux 64-bit system, you can add an IBM InfoSphere BigInsights server to the system topology to support large scale analysis and indexing of content, such as a collection that contains terabytes of data.

Topology View

```
graph TD; node0["node0.ibm.com"]; node3["node3.ibm.com"]; node1["node1.ibm.com"]; node2["node2.ibm.com"]; node4["node4.ibm.com"]; hadoop["hadoop.ibm.com"]; node0 --- node3; node0 --- node1; node0 --- node2; node0 --- node4; node0 --- hadoop;
```

The screenshot shows the IBM Content Analytics with Enterprise Search interface. At the top, there is a navigation bar with the IBM logo and the text 'IBM Content Analytics with Enterprise Search'. To the right of the logo, there are links for 'Search Customizer | Analytics Customizer | Log Out | Help | About'. Below the navigation bar, there is a secondary navigation bar with three tabs: 'Collections', 'System', and 'Security'. The 'System' tab is currently selected. Below the tabs, the breadcrumb path is 'System : Server Configuration > : Configure BigInsights Server'. An information icon (i) is followed by a message: 'There is at least one collection associated with the current IBM InfoSphere BigInsights server configuration. To modify the BigInsights server settings, you must first remove the associated collections.' The main content area is titled 'Configure IBM InfoSphere BigInsights Server'. It contains a paragraph explaining the purpose of the configuration: 'To handle large amounts of data, use an IBM InfoSphere BigInsights server to help process the data. After you configure the following settings, you can enable a collection to use BigInsights when you create a new collection or clone an existing collection. After a collection is configured to use this BigInsights server, you can no longer edit the server configuration. To edit the server configuration settings, you must first remove the associated collection.' Below this text are three required fields: '\* Host name of JobTracker node:' with the value 'hadoop.ibm.com', '\* JobTracker port (example: 9001):' with the value '50020', and '\* Path to the BigInsights distributed file system (example: hdfs://hadoop.server.com:50040)' with the value 'hdfs://hadoop.ibm.com:50040'. There is a link for 'Advanced options' and two buttons: 'OK' and 'Cancel'. To the right of the configuration fields, there is a yellow callout box with two paragraphs of text: 'Specify information about your BigInsights server and click **OK** to add the server to the system topology.' and 'When you create a collection where you plan to index a large amount of data, you can specify that you want to use the BigInsights server to manage the index.'

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## Exploring the System Dashboard

IBM Content Analytics with Enterprise Search

Search Customizer | Analytics Customizer | Log Out | Help | About

Collections System Security

Server Configuration Data Listener Parse Search Log

[Learn more](#)

- Configure text analysis engines
- Configure a custom lexical dictionary

Open the **Parse** page to add processing engine archives (.pear files) to the system so that text can be analyzed by your custom text processing algorithms.

For enterprise search collections, you can add custom dictionaries to ensure that the parser applies your enterprise-specific vocabulary when preparing content for the index.

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IBM Content Analytics with Enterprise Search Search Customizer | Analytics Customizer | Log Out | Help | About

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Server Configuration Data Listener Parse Search Log

[Learn more](#)

- Configure synonym dictionaries
- Configure stop word dictionaries
- Configure boost word dictionaries
- Configure the query statistics database

**Query statistics:**

**Search: 1 Server name: Server1**

Collection name	Query rate (5 minutes)	Cached r		Status	
Finance	8	7	5%	9	
HR	8	7	5%	9	

**Search: 2 Server name: Server2**

Collection name	Query rate (5 minutes)	Cached responses	Results from cache	Response time (milliseconds)	Status
Finance	83	5000	30%	7	
HR	8	7	5%	9	

Open the **Search** page to add custom dictionaries for processing queries. You can specify enterprise- specific synonyms, stop words, and words that can automatically boost a document's relevance in the results.

Also use the **Search** page to specify options for storing queries, such as how long queries are to be retained and how frequently the database is to be refreshed.



## Exploring the System Dashboard

**IBM** IBM Content Analytics with Enterprise Search Search Customizer | Analytics Customizer | Log Out | Help | About

Collections System Security

Server Configuration Data Listener Parse Search Log

[Learn more](#)

- Configure log file options
- Configure alerts
- Configure email options for messages

Select the log file that you want to view. You can specify filters to view specific log messages. After you make your selections, click **View log**.

Log file:

- system\_20060206.log
- system\_20060206\_1.log
- system\_20060205.log

Number of log entries per page: 20

**Filters**

**Severity:**

- All severity levels
- Error
- Warning
- Informational

**Session:**

- All sessions
- IndexCopy - Collection col\_81479 (node1)
- Indexer - Collection col\_81479 (node1)
- Parser Driver - Collection col\_81479 (node1)

View log

Open the **Log** page to specify preferences for logging system activities and errors and for receiving notifications about system events.

On this page, you can also select a log file and click **View log** to see details about messages that were logged.

# Exploring the System Dashboard

The screenshot displays the IBM Content Analytics with Enterprise Search administration console. At the top, the IBM logo and product name are visible, along with navigation links for Search Customizer, Analytics Customizer, Log Out, Help, and About. Below this, there are tabs for Collections, System (selected), and Security. A secondary navigation bar includes Server Configuration, Data Listener, Parse, Search, and Log. The main content area features several action buttons: Add Server, Configure IBM InfoSphere BigInsights Server, Start Selected Servers, and Stop Selected Servers. A 'Server Information' table lists various server components and their status. A purple callout box highlights the end of the tour. Below the table is a 'Topology View' diagram showing the network layout of the servers.

Host name	Crawler	Controller	Document Processing	Search	Backup	Status	Actions
node4.ibm.com		✓	✓		✓	●	✕
node0.ibm.com						●	
node3.ibm.com	☐					●	✕ ✕
node1.ibm.com	☐					●	✕ ✕
node2.ibm.com	☐					●	✕ ✕
hadoop.ibm.com	☁					●	

This concludes the tour of the System dashboard in the IBM Content Analytics with Enterprise Search administration console.

**Topology View**

```
graph TD; hadoop((hadoop.ibm.com)) --- node0((node0.ibm.com)); node0 --- node1((node1.ibm.com)); node0 --- node2((node2.ibm.com)); node0 --- node3((node3.ibm.com)); node0 --- node4((node4.ibm.com));
```