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IBM® WebSphere® Extended Deployment V6.1

Operations Optimization: Custom charting



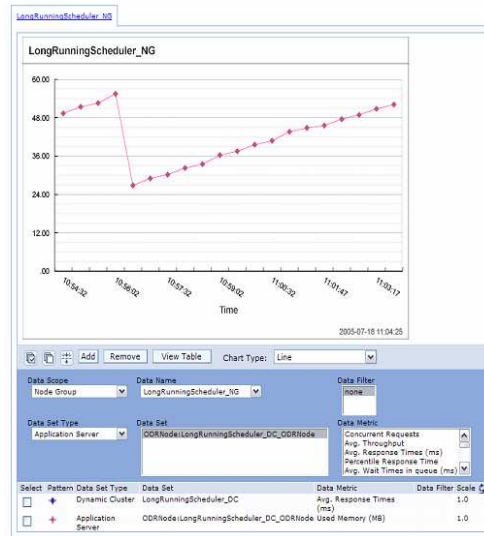
@business on demand.

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This presentation will cover the custom charting visualization features of WebSphere Extended Deployment V6.1.

Overview

- Custom charting of performance and goal data
- Interactive charts display current performance data
 - ▶ Updated in real time
 - ▶ Useful for viewing actual performance compared to goals
- Data can be logged for reference or chargeback



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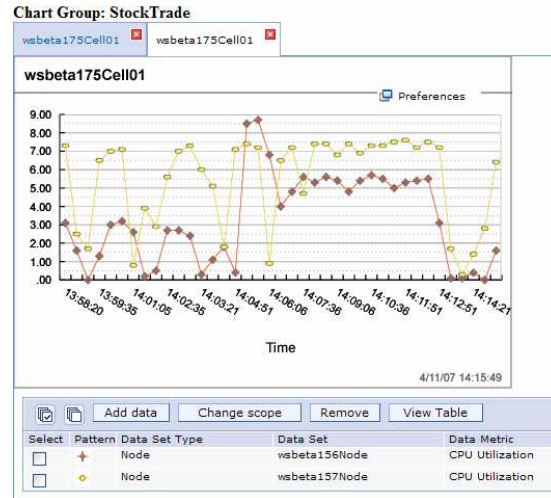
Custom charting

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With the new complexities of dynamic operations, the need has arisen for tools that extend not only manageability, but monitoring capabilities as well. The visualization components of WebSphere Extended Deployment version 6.1 enhance the administrative console to provide live data on the performance of the entire cell and goal based data through custom charts.

Custom charting metrics

- Several metrics can be charted
 - ▶ Avg. response time
 - ▶ Throughput
 - ▶ Queue times
 - ▶ Processor usage
 - ▶ Memory usage
 - ▶ and many more...



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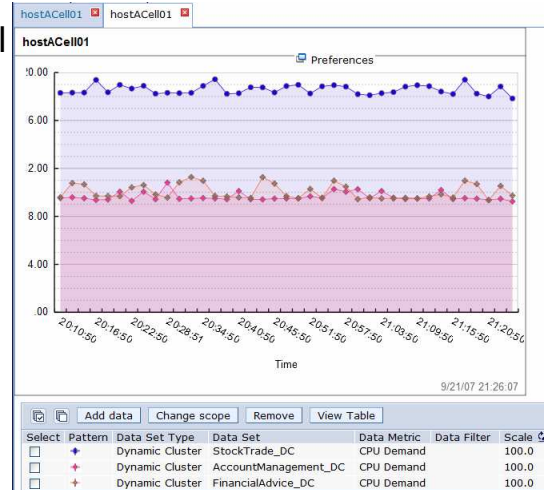
Custom charting

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These reports display interactive charts representing numerous statistics about the components of your cell, such as a graph of actual response times for a particular dynamic cluster versus your defined response time goals.

Custom charting granularity

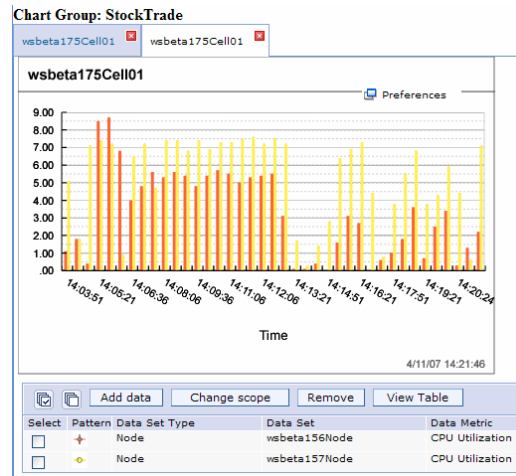
- Flexible preferences enable viewing at several levels of granularity
 - ▶ Server
 - ▶ Cluster
 - ▶ Node group
 - ▶ Application
 - ▶ Transaction class
 - ▶ Many more...



The data can be aggregated by server, application, work class, or transaction class, to name a few of the options. Performance metrics can be graphed against the response time goals defined by your service policy.

Custom charting

- Can display charts in various formats, including
 - ▶ Line
 - ▶ Area
 - ▶ Vertical bar
 - ▶ 3D vertical stack bar
 - ▶ Horizontal bar
 - ▶ 3D horizontal bar
- Chart size can be
 - ▶ Small
 - ▶ Medium
 - ▶ Large



The user can specify the format in which the data is displayed and can resize the chart, as necessary.

Runtime operations - Reports

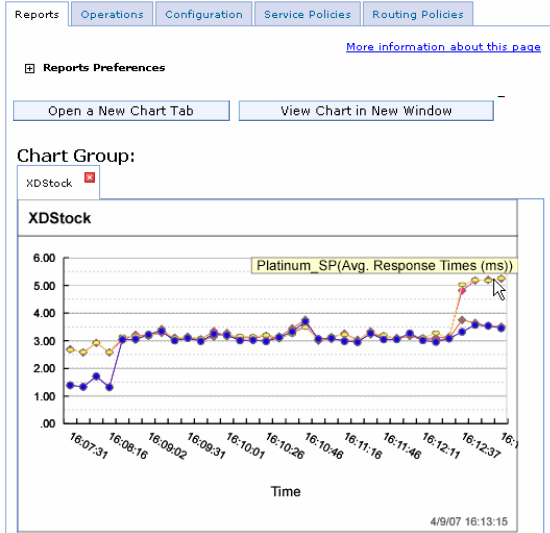


You can access the custom charting feature at the cell level in the administrative console by clicking on “Reports” under the “Runtime Operations” menu on the left.

Applications - Reports

[All Applications](#) > XDStock

Use this page to configure an enterprise application. Click the links to access pages for further configuring of the application or its modules.



- Also available from
 - Servers
 - Clusters
 - Dynamic clusters
 - Service policies

You can also view and edit charts through the “Reports” tab in the settings panel for a particular application, server, cluster, dynamic cluster, or service policy.

Chart groups

When a chart group is selected, the name is added to the title as:

Chart Group: MyChartGroup

When the chart group is edited, it is flagged with an '*' as :

Chart Group: * MyChartGroup

Configuring and using chart groups

Chart Group: StockTradeGroup

StockTradeCluster **FinancialAdvice [x]** odr1

Refresh Chart

FinancialAdvice-edition1.0


Chart Preferences

Select	Pattern	Data Set Type	Data Set	Data Metric	Data Filter	Scale
<input type="checkbox"/>	+	Service Policy	Default_Sp	Avg. Response Times (ms)		:0.0:0
<input type="checkbox"/>	+	Service Policy	Gold	Avg. Response Times (ms)		:0.0:0
<input type="checkbox"/>	+	Service Policy	Bronze	Avg. Response Times (ms)		:0.0:0
<input type="checkbox"/>	-	Service Policy Goal	Gold_Goal	Avg. Response Times (ms)		:0.0:0
<input type="checkbox"/>	-	Service Policy Goal	Bronze_Goal	Avg. Response Times (ms)		:0.0:0

Save current group of chart tabs configuration as chart group Save

Saved chart groups: [StockTradeGroup, UHICCluster](#)

Remove Group

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Popoff charting

Extended Deployment Reports


Reports Preferences

Open a New Chart Tab **View Chart in New Window**

New in V6.1.0.1

Chart Group: hostACell01

hostACell01



2.00
1.00
.00

19-20:01 19-20:21 19-20:51 19-21:21 19-21:51 19-22:21 19-22:51

Time

http://hosta9060/ibm/console.com.ibm.ws.console.xdoperations/chartLayout.jsp?refId=Chart_0.883 - M...

View Chart in Chart Group Preferences

hostACell01

2.00
1.00
.00

19-20:01 19-20:21 19-20:51 19-21:21 19-21:51 19-22:21 19-22:51 19-23:21 19-23:51 19-24:21 19-24:51

Time

Add Data... Change Scope... Remove View Table

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New in version 6.1.0.1, you can open a chart in a new window, by selecting “View Chart in New Window”. This will allow you to perform other tasks in the administrative console while still monitoring your chart. To return the chart to the administration console, select **View Chart in Chart Group**.

Summary

- Interactive charts display current performance data
 - ▶ Useful for viewing actual performance against goals
 - ▶ Several metrics can be charted
 - Avg. response time, throughput, queue times, processor or memory usage, and more
 - ▶ Flexible preferences enable viewing at several levels of granularity
 - Server, cluster, node group, application, transaction class, and more



In summary, the visualization features of WebSphere Extended Deployment give you graphical tools to more effectively manage a large, dynamic environment. You can interactively create charts of several different metrics with this feature, including response times, processor utilization, or queue times for long running work. The data about your environment can be viewed at several levels of granularity, from work class to dynamic cluster level.

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This module is also available in PDF format at: [../XD61_CustomCharting.pdf](..../XD61_CustomCharting.pdf)



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