



# Node Run Time Component

A node represents an IceGrid node process registered with the IceGrid registry.

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## States

A node can be either up () or down (). A "down" node is shown only when it is described by an application deployed on this IceGrid registry.

## Actions

A node provides the following actions, from its contextual menu and from the `Tools > Node` menu:

- **Retrieve stdout**  
Retrieve the stdout log file of the IceGrid node into a [Log File Dialog](#). This retrieval succeeds only when the node stdout output has been redirected to a file using the `Ice.StdOut` property.
- **Retrieve stderr**  
Retrieve the stderr log file of the IceGrid node into a [Log File Dialog](#). This retrieval succeeds only when the node stderr output has been redirected to a file using the `Ice.Stderr` property.
- **Shutdown**  
Shutdown the IceGrid node process.



You cannot restart an IceGrid node from IceGrid Admin.

## Properties

The screenshot shows a 'Node Properties' window. It has two main sections: 'System Information' and 'Configuration'. Under 'System Information', there are four text boxes: 'Hostname' with 'BDESKTOP', 'Operating System' with 'Windows 6.1 Service Pack 1', 'Machine Type' with 'x64 with 4 CPU threads', and 'CPU Usage' with '2.8% 3.4% 3.0%'. A 'Refresh' button is next to the CPU Usage box. Under 'Configuration', there is a 'Load Factor' section containing a table with two columns: 'Application' and 'Value'. The table has one row with 'Simple' and 'Default'.

System Information	
Hostname	BDESKTOP
Operating System	Windows 6.1 Service Pack 1
Machine Type	x64 with 4 CPU threads
CPU Usage	2.8% 3.4% 3.0% <span>Refresh</span>

Configuration	
Load Factor	Application
	Value
	Simple Default

The Node Properties panel shows:

- **Hostname**  
The name of the host on which the IceGrid node process is running.
- **Operating System**  
The operating system name and version of the host on which the IceGrid node process is running.
- **Machine Type**  
The type of CPUs and the number of CPU threads of the host on which the IceGrid node process is running. For example, a computer with a dual-core CPU and 2 "hyper threads" per core will show 4 CPU threads.
- **CPU Usage (Windows) or Load Average (Linux/Unix)**  
On Windows, shows the percentage of CPU utilization in the past 1, 5, and 15 minutes. On Linux/Unix, shows the load-average in the past 1, 5 and 15 minutes. These values are retrieved when the Node Properties panel is displayed. Click on the Refresh button to retrieve the latest values.
- **Load Factor**  
Shows the load factor defined by each application using this node.

## Children

A registry node can only have two types of children:

- Regular Server
- IceBox Server