

ManageEngine Free Tools User Manual



Free EC2 Health Monitor Tool

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Overview

Free EC2 Health Monitor tool

Amazon EC2 is a cloud computing platform, which allows users to connect to virtual computers and run their software application. Amazon EC2 allows you to launch, deploy applications/instances that can allow you scale capacity in no time. Web interface allows user to boot an Amazon machine image (AMI) and create a virtual machine and launch any application. Applications and instances running on these cloud environment requires continuous monitoring from remote location to ensure high availability. ManageEngine EC2 Monitoring tool addresses this monitoring need.

The ManageEngine's Free EC2 Health Monitor is a lightweight tool which helps system administrator, to view the performance of the Amazon EC2 instances. This Tool makes connection with Amazon EC2 cloud environment and fetches performance metrics about EC2 instances and presents them as a visually elegant graphs and reports.

ManageEngine EC2 Health Monitor Tool monitors the metrics of the AMI instances. You can monitor any number of instances using this tool. The best part is that this tool is made available to you absolutely FREE of cost.

Key Benefits

EC2 Health Monitor Tool, allows you to monitor performance metrics like CPUUtilization, NetworkIn, NetworkOut, DiskRead and DiskWrite of AMI instances continuously. This tool presents the resource usage in an elegant graph and reports. It also shows the number of instances present and the number of instances that are in running state or stopped state in a tree view.

Using this tool, administrator can see historical data of the resource utilization of instances in the EC2 environment. Administrator can also see the live resource utilization metrics in a just click of a button.

The ManageEngine EC2 Health Monitor serves as a smart desktop tool that continuously monitors EC2 instances from remote location. Tool helps Administrator to monitor AMI instances effortlessly in real-time and ensures your mission-critical applications are running smoothly.

Features

Free EC2 Health Monitor tool

ManageEngine Free EC2 Health Monitor tool helps system administrator or developer to collect, analyze the data and find the resource utilization of EC2 instances. This tool can connect to the Amazon EC2 services, monitor live feed data and historical data of Amazon EC2 instances.

Key Features

- Graphical representation of performance metrics per instance
- Live Feed data
- Historical data
- Basic details about instances.

Graphical representation of performance metrics per instance

ManageEngine's Free EC2 Performance Monitor tool monitors the following performance metrics of Amazon EC2 instances.

- CPU Utilization
- Network In
- Network Out
- Disk Read
- Disk Write

CPU Utilization (in Percentage)

The percentage of allocated EC2 compute units that are currently in use on the instance. This metric identifies the processing power required to run an application upon a selected instance..

Network In (in Bytes)

The number of bytes received on all network interfaces by the instance. This metric identifies the volume of incoming network traffic to an application on a single instance..

Network Out (in Bytes)

The number of bytes sent out on all network interfaces by the instance. This metric identifies the volume of outgoing network traffic to an application on a single instance.

Disk Read (in Bytes)

Bytes read from all disks available to the instance. This metric is used to determine the volume of the data the application reads from the hard disk of the instance. This can be used to determine the speed of the application..

Disk Write (in Bytes)

Bytes written to all disks available to the instance. This metric is used to determine the volume of the data the application writes onto the hard disk of the instance. This can be used to determine the speed of the application.

Live Feed data

In this data retrieval mode, this tool retrieves the data of EC2 instance from amazon at every data fetch interval (e.g., 30 seconds by default). It also provides the option to change the data fetch interval value. This tool renders the past one hour data graphically.

Historical data

This tool provides the option to select the start date, end date, start time and end time to retrieve the details of Amazon EC2 instance. It represents statistics graphically. User can view the resource utilization graph for a selected period.

Basic details about instances

Tool displays all the instances in the tree view. User can select any instance in the tree view. It displays the details given below.

InstanceId

InstanceID of the Amazon machine instance.

Instance status

It displays the status of the Amazon Machine Instance i.e., whether it is running, stopped or pending state.

CloudWatch

This is an additional parameter which allows fine grained monitoring of AMI instances.

It has two modes. One mode is "basic" and the other is "detailed". Detailed - monitoring mode means "CloudWatch is enabled" and data can be monitored every minute (the minimum time interval for retrieval is one minute). Basic -monitoring mode means, CloudWatch is not enabled and the minimum time interval for successive data retrieval is five minutes. Even if we specify a lesser time interval, it will be ignored

Availability Zone

Availability zone is the geographical region in which instance is located.

Architecture

Displays the processor details of instances.

IPAddress

Displays the IP address of the instances.

Log files used

Percentage of space in the log that is in use.

Log cache Hit ratio

Percentage of Log cache reads satisfied from the log cache.

Transactions per second

Number of transactions started for the database per second.

Documents

Free EC2 Health Monitor tool

Getting Started

The Free EC2 Health Monitor Tool helps the developer/administrator to collect and monitor the resource utilization of Amazon EC2 instances. This will help to make the operational and business decisions more quickly with greater confidence.

Login window

Please provide the Amazon EC2 credentials and HTTP proxy credentials (if required).

Amazon credentials

- Secret Access Key - Secret Access Key Id of the Amazon EC2
- Access Key ID - Access Key Id of the Amazon EC2

Proxy credentials

- Proxy Host Name - Host name of the Proxy server
- Proxy Port - Port of the Proxy
- Proxy Username - Username of the Proxy Server
- Proxy Password - Password of the Proxy Server

Click on the "Connect" button in order to connect the Amazon EC2 services.

If the connection to EC2 is successful, this tool populates all the Amazon EC2 instances in an elegant tree view.

By default, the first EC2 instance will be selected in the tree and the basic details will be displayed. The following details are presented for each selected EC2 instance.

- InstanceId
- Architecture
- CloudWatch status(basic/detailed)
- Zone
- IPAddress
- Instance status(stopped/running/pending)

And "Live Feed Data" will be selected by default and the performance metrics like (CPUUtilization, NetworkIn, NetworkOut, DiskRead and DiskWrite)of EC2 instance will be displayed graphically.

Tool monitors the metrics of EC2 instances and presents them in two views.

- Live Feed Data
- Historical Data

Live Feed Data

Please select one of the AMI instance in the left tree view and the basic details of EC2 instance is displayed. Default monitoring mode for each AMI is "Live Feed Data". This tool retrieves the data of EC2 instance from amazon periodically at every Data Fetch Interval (e.g., 30 seconds by default). This tool renders the past one hour data graphically.

It also provides an option to change the Data Fetch Interval value.

Data Fetch Interval

The time interval between successive data retrieval from AMI's is called Data Fetch Interval. The unit of the "data fetch interval" is seconds.

To modify the Data Fetch Interval, please enter the new value in the data fetch interval textbox (in Seconds). Then, click the "Reset" button, to update the data fetch interval. This will take effect from the next polling cycle. Minimum value of data fetch interval value is 30 seconds.

Historical Data

Tool monitors the performance parameters of an AMI for specific date and time interval (start date, end date, start time and end time)

To configure the historical data, select the Historical Data radio button in the window. It displays the start and end date and start and end time.

Please select the start date, start time, end date and end time and click the submit button. This will retrieve the data from the Amazon EC2 and displays the data for selected date and time in a graph. The maximum time interval allowed to collect data from amazon is two weeks and the minimum is ten minutes.

Scope of the Tool

Amazon EC2 stores two week's data for every instance. The maximum limit of tool is to collect the two week's data of EC2 instances and the minimum is one minute data for detailed monitoring and five minutes for basic monitoring.

Refresh

To fetch the latest value of all the attributes of the EC2 instances, please click on "Refresh" icon.

To get technical assistance or to receive further details regarding EC2 Health Monitor tool, please contact free-tools@manageengine.com

System Requirements

Hardware requirement:

- CPU : 1 GHz (x86 processor) or 1.4 GHz (x64 processor) or higher versions.
- Memory : Atleast 512 MB of RAM
- Disk Space: Atleast 3 MB of disk space must be available before installation and less than 10 MB of disk space is needed after installation.

Software Requirements:

- Microsoft .NET Framework 2.0/3.0/3.5

Note : If you do not have Microsoft .NET Framework, please download the required version from

- <http://www.microsoft.com/downloads/details.aspx?FamilyID=0856EACB-4362-4B0D-8EDD-AAB15C5E04F5&displaylang=en> (Microsoft .Net Framework 2.0
- <http://www.microsoft.com/downloads/details.aspx?FamilyID=10CC340B-F857-4A14-83F5-25634C3BF043&displaylang=en> (Microsoft .Net Framework 3.0)

To download more free tools, please visit our ManageEngine website
<http://www.manageengine.com>.

FAQ

1. I have downloaded the tool but it is not running. What should I do?

Please check whether the Dot Net platform is installed in your system. Run the utility available in the bin directory, DotNetUtilities.exe , it will tell you the Dot Net version. If Dot Net platform is not available in the system, download the platform. Please see the software requirements page for downloading the platform.

2. Can I view more than one mode of data retrieval (either historical or live feed)?

Yes, you can view more than one mode of data retrieval at any given instance. If you click "historical data", historical data will be active in the main window. Again, if you select "Live feed data" it will start live feed polling.

3. Can I monitor more than one EC2 instance?

Yes, you can monitor more than one instance using EC2 Health Monitor Tool. If you select a instance in the tree, tool will populate the performance metrics for that instance. Any instance can be selected for monitoring.

Contact us

For more information and queries, please send a mail to free-tools@manageengine.com . You can also post your queries under the topic "<http://forums.manageengine.com/free-tools>" in Forums .