



## MKS AlertCentre Evaluation Guide

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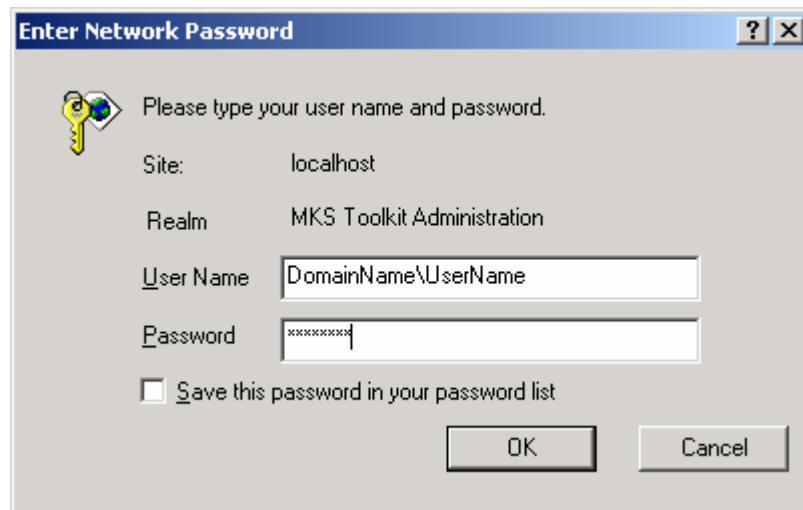
# Evaluating the MKS AlertCentre

## A Point-and-Click Availability Monitoring Solution

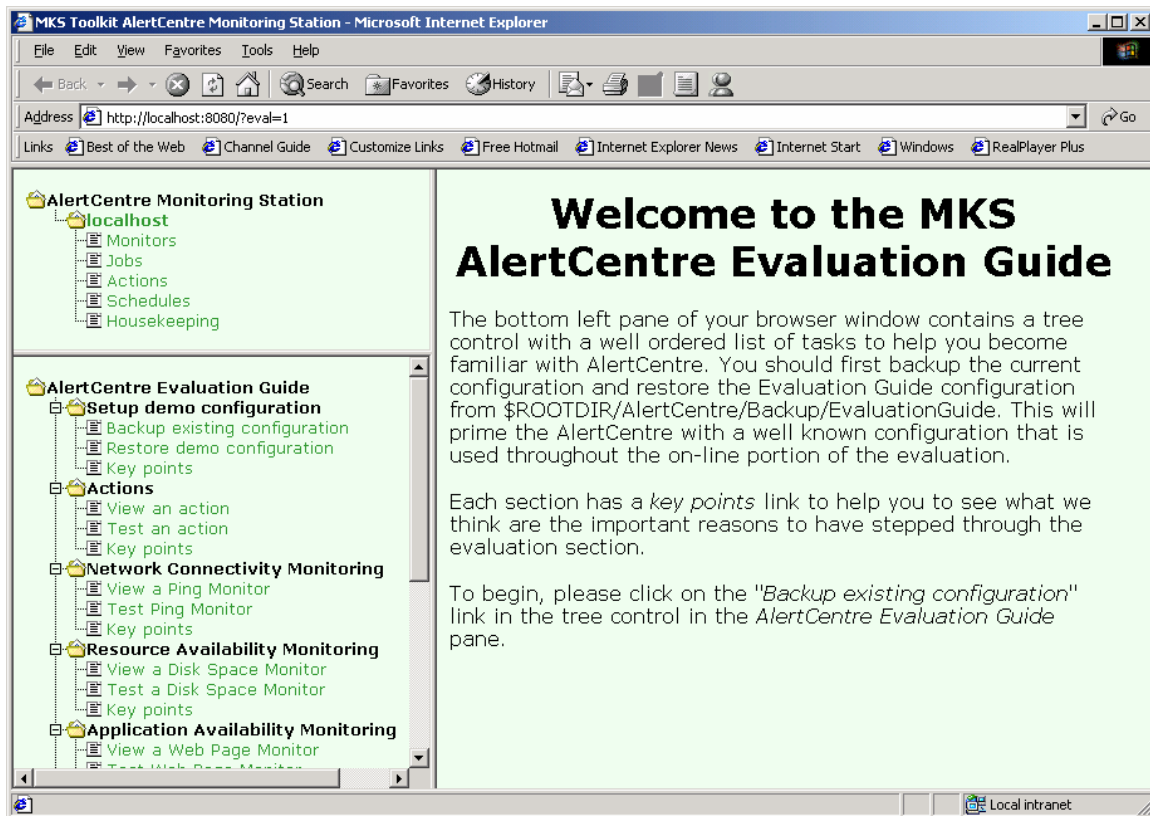
MKS AlertCentre™ is a cost-effective, easy-to-use monitoring solution for ensuring the high availability of networks, applications, and Internet/Intranet-based information systems. Built on an integrated foundation for scheduling, alerting, and automating repairs, AlertCentre lets you define monitors that can observe, report on, and control the activities of other programs or devices on your network so that you can be sure that mission-critical applications are up and running at all times. AlertCentre gives you and your colleagues the ability to be notified in a timely fashion if anything on your network is malfunctioning.

## Setting Up The Evaluation Environment

To begin the AlertCentre Evaluation, please launch from the Windows Start Menu: Start → Programs → MKS Toolkit → Evaluation Guide → AlertCentre Evaluation. Then it will be time to log in, and begin the evaluation. In order to log in, you need to know the username and password of a local or (preferably) domain administrator and enter them as shown below.



This will start AlertCentre in evaluation mode and you will see a three-pane browser window as shown on the next page.



The top/left pane is the same as would be seen in AlertCentre in standard mode. The bottom/left pane is a navigation window added to guide you through this evaluation. Please start by reading the text in the right pane, and then it will be time to click a link in the bottom/left pane.

If you have already started to use AlertCentre and have created Monitors or Actions you wish to save, you should first backup your current configuration by clicking on the link *Backup existing configuration*; otherwise please skip forward to *Restoring demo configuration*. AlertCentre ships with two sample configurations: one totally empty; the other for use in this evaluation. They reside in \$ROOTDIR/AlertCentre/Backup.

## Backing up the existing configuration

# HouseKeeping

Backup to:	<input type="text" value="C:/Program Files/MKS Toolkit/AlertCentre/Backup/MyCurrentState"/>
Backup passphrase:	<input type="text"/>

[Back](#)
[Help](#)



Enter a Backup passphrase that you can remember to restore your current state at the end of the evaluation and press the “Backup” button. You should see the details of the backup in the right pane including the statement: The backup was successful.

## Restoring the demo configuration

# HouseKeeping

Restore from:	C:/Program Files/MKS Toolkit/AlertCentre/Backup/EvaluationGuide
Backup passphrase:	<input type="text"/>

Restore

 [Back](#)  [Help](#)

Enter the Backup passphrase “ACEval” and click the restore button. You will be prompted to overwrite the current configuration with this backup. Be sure that if you have an important configuration on the Monitoring Station that you have first backed it up and then click the Restore button to restore the demo configuration.

Restoration should look something like:

# HouseKeeping

Checking the backup (2001-11-30 at 10.57.56) integrity

- The configuration file looks OK to the restored
- The log file looks OK to the restored
- secrets looks OK to the restored

Restoring configuration from "C:/win32app/nutc4/AlertCentre/Backup/EvaluationGuide":

- Locking the configuration file..
- Restoring the configuration file..
- Restoring saved passwords..
- Not restoring the AlertCentre Administrators group..
- Restoring the schedules..
- Restoring the housekeeping schedule..
- Unlocking the configuration file..
- Restoring the log file..

The restore operation was successful. You have now rolled your configuration back to the state is was on 2001-11-30 at 10.57.56

[Click here](#) to return to the main HouseKeeping menu

 [Back](#)  [Help](#)

## KEY POINTS



### Monitoring Station Configurations

1. Are only accessible to authorized users
2. Can be backed up and restored to protect valuable data
3. It's important to backup before restoring the Evaluation Guide configuration

## Actions

Click on the *View an Action* link in the *AlertCentre Evaluation Guide* frame to see the Edit Action page for an Action named: **popup on localhost**. In AlertCentre, an Action is used to alert specific people about the status reported by a Monitor. Alerts can be delivered using a variety of media (e.g., email, page, popup, SNMP Trap, etc.). Actions can also be used to automate corrective actions (e.g., reboot a machine, run a program, etc.) This particular Action pops up a dialog box on the Monitoring Station. Scroll the right pane to see the range of Actions that can be used.

# Edit Action

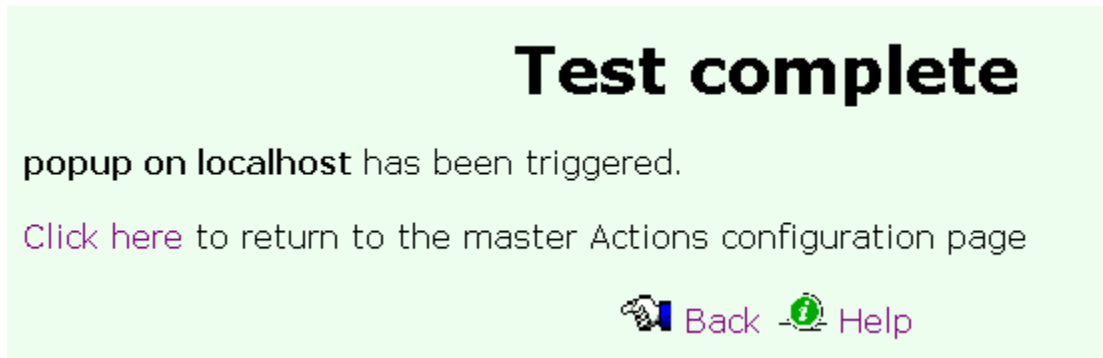
Back Help

Save Reset

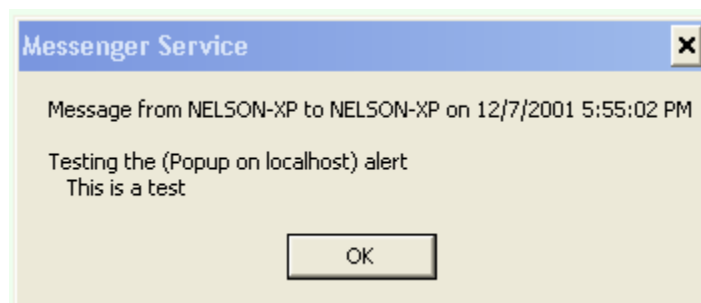
Action Name:	popup on localhost	
Character limit		
<input checked="" type="checkbox"/> Also trigger this action on the first success after a failure		
<input type="radio"/> Send an e-mail	Mail recipient address	
	<input checked="" type="radio"/> Use default SMTP Server	smtp.fairfax.mkssoftware.com
	<input type="radio"/> Specify SMTP Server	
	Optionally dial this RAS Connection	
	RAS Username	
	RAS Password	
<input checked="" type="radio"/> Pop-up on machine named	\$MONITORING_STATION	
	Modem	

Now click the *Test an Action* link in the *AlertCentre Evaluation Guide* frame. After reading about Actions in the right pane, press *Click here* to test the Popup on localhost Action.

AlertCentre will display a *Test complete* message in the right pane like below,



and you will see a popup dialog on the console of your AlertCentre Monitoring Station which looks something like this.



Of course the Windows Messenger Service must be started on the Monitoring Station for this dialog box to work. If it is not started, you can start it through the services interface or from the command line using *service start messenger*.

## KEY POINTS



### AlertCentre Actions

1. Alert key people via: e-mail, popup dialogs, paging, SNMP Traps and much more.
2. Automate corrective actions by rebooting machines, running programs or scripts and more.
3. Actions are key to **Management by Exception**. System managers and administrators do not need to monitor consoles all day, because Actions will alert them of problems when they occur, thus their time is freed up for other pressing needs.

## Monitors

A monitor is a task that runs on a monitoring station and is responsible for monitoring the health of a physical or virtual IT resource such as a port, a URL, a disk drive or an application. The key elements of a monitor are an IT resource to be monitored (e.g., server, workstation, URL, disk, etc), a metric for evaluating the condition of that



resource, a schedule on which to monitor that item, and actions to be taken based on the success or failure reported by the monitor.

AlertCentre predefines many kinds of monitors in three main categories: Network Connectivity, Resource Availability and Application Availability. You create a new instance of one of these monitors and customize it by specifying various parameters via the AlertCentre Graphical User Interface. In the case of a predefined monitor, the task is predefined, such as a monitor for an HTTP server. You may also create your own new kinds of monitors called custom monitors to do whatever you like.

## Network Connectivity Monitoring

A Ping Monitor is one example of the many monitor types that are ready to be used for Network Connectivity Monitoring. Click on the *View a Ping Monitor* link and you will see the following screen:

# Edit Ping Monitor

 Back  Help

Save Reset

Ping Monitor Name

localhost

Machine to ping

localhost

☐ On save - create an **action** of the same name to run this Ping Monitor

When multiple Tasks are assigned to a schedule, this Ping Monitor will run with priority 

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 where one is the highest

Actions to Trigger:

☐ Disable actions

Permanently

☒ When 

1

 consecutive error(s) occur(s) trigger

☐ When 

5

 consecutive error(s) occur(s) trigger

☐ When 

10

 consecutive error(s) occur(s) trigger

☒ On any success trigger

Popup on localhost

Popup on localhost

Popup on localhost

Popup on localhost

Note that the monitor will ping the Monitoring Station (i.e., localhost) and on the first success and the first failure it will popup a dialog on the Monitoring Station console. Every monitor defines what actions will be taken upon success or failure and the

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escalation rules for those actions. Note also that it is possible to temporarily disable the actions for a monitor – for example during routine maintenance. Also, note that there are currently no schedules designated to trigger the localhost ping monitor.

Now click *Test Ping Monitor* to see the monitor in action. For either success or failure you should expect to see a popup dialog indicating the state of the monitor. You will also see the monitor run log for this monitor so that you have a history of the state of this monitor at discrete intervals over time.

## Test complete

localhost has been run. Here is the run log:

### Run log

Run Number	Run time	Run Status	Run Result
1	07 Dec 2001 18:32:19	Succeeded	64 bytes from 127.0.0.1: icmp_seq = 0. time: 30 ms

☐ Show failures only

> Older 20

>> Oldest 20

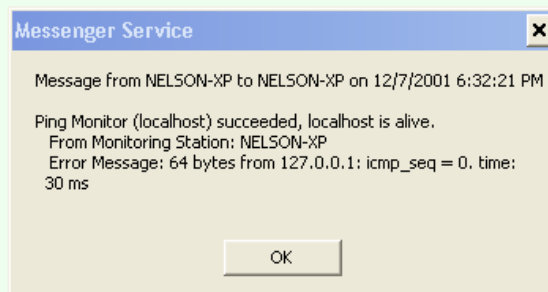
[Click here](#) to return to the master Ping Monitor configuration page



[Back](#)



[Help](#)





## KEY POINTS



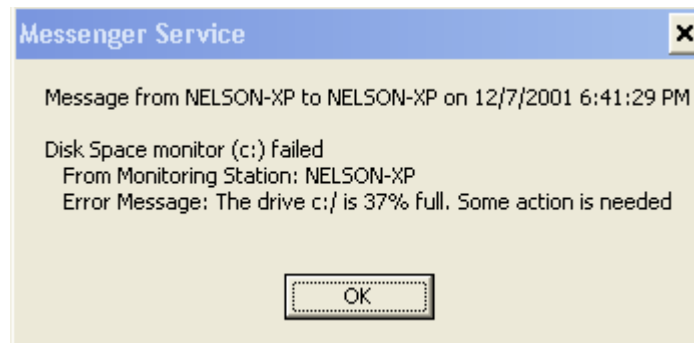
### Network Connectivity Monitoring

1. Can be used to test connectivity across a broad array of computers, operating systems and devices that support TCP/IP network protocols.
2. Monitor types include: HTTP, FTP, SMTP, TCP Port, NetBIOS Share, DNS, Remote Access and Ping.

## Resource Availability Monitoring

A Disk Space Monitor is one example of the many monitor types that are ready to be used for Resource Availability Monitoring. Click the *View a Disk Space Monitor* link and observe that the monitor will likely fail because it is set to fail if the C: drive is more than 2% full. Normally such a monitor would be set to 80% or 90% for failure. You can set this to monitor any valid file name either by drive letter or Universal Naming Convention (UNC) such as [\\server\share](#).

Click *Test a Disk Space Monitor* and you should see a failure dialog and a single failure in the monitor run log.



When you configure monitors for your own network, likely you will trigger automatic corrective actions such as removing temporary files from disk drives that are over capacity, in addition to alerting the people responsible for the health of the network.

## KEY POINTS



### Resource Availability Monitoring

1. Can be used to test resource availability primarily for Windows-based devices, however, custom monitors can be created readily to test these same resources on UNIX machines.
2. Monitor types include: Disk Utilization, CPU Utilization, Memory Utilization, and Windows Performance Counters.
3. The type of Windows Performance Counter Monitors can vary widely based on the range of applications running on the machine(s) being monitored. The AlertCentre Graphical User Interface enumerates Performance Counters automatically.

## Application Availability Monitoring

A Web Page Monitor is one example of the many monitor types that are ready to be used for Application Availability Monitoring. Click on View a Web Page Monitor. You will see this screen:

### Edit Web Page Monitor

[Back](#) [Help](#)

Web Page Monitor Name:

URL to Monitor:

Username:

Password:

☒ Match Regular Expression

☐ Compare to URL

A web page monitor establishes a connection to a URL, retrieves the page stored at that URL and then matches this output to a regular expression (sophisticated pattern matching) or matches to text in a file. This gives you the power to look for errors at the connection level, as well as errors in the page content (e.g., CGI errors) using a single monitor. The page being monitored in the example, which you will view momentarily (<http://localhost:8080>), may require you to enter a username (i.e., domainname\username) and password of an AlertCentre Administrator before the monitor will succeed.

Click on *Test a Web Page Monitor* to watch it fail – since the regular expression “Some text to force a failure” will not be found at the URL being monitored (i.e., AlertCentre UI). If the monitor fails with a 401 error, then you need to supply a username (i.e.,

domainname\username) and password of an AlertCentre Administrator and test again. The monitor should fail, because the text supplied as a regular expression to look for on the page does not exist on the page. Feel free to go back and change the comparison text to "MKS", and test again to see it succeed.



## KEY POINTS



### Application Availability Monitoring

1. Compare current state of an application to a well known state
2. Take action on match or failure to match a well-known state.
3. Monitor types include: Windows Service, Web Page, Windows Event Log and Application Event Log.
4. The AlertCentre UI will automatically enumerate the Windows Services that can be monitored on any machine on your network as well as the Windows Event Logs that can be monitored. These are very useful monitor types that can keep you informed about everything from the health of Exchange Message Transfer Agents (via Windows Service Monitors) to the identification of unauthorized logon attempts (via Windows Event Log Monitors).

## Schedules

Schedules are the driving force behind monitors and automated batch jobs, defining when and how often these tasks run. It helps to think of a schedule as a process that runs at specified times. And when the schedule runs, it then runs any associated monitors and batch jobs as its children. A schedule has three key components: a security context, a set of triggers, and a set of associations with monitors.



Because monitors and jobs run on the monitoring station as child processes of the schedule process, they inherit the security context from the parent, the schedule. You must ensure that the schedule runs with sufficient permissions to let all of its associated monitors and batch jobs run. We typically recommend that you run all schedules under the account of a domain administrator. By default, schedules run under the LocalSystem account. Most monitors will try to access other machines or devices on your network, and running under the LocalSystem security context, they are almost certainly guaranteed to fail for insufficient permission to access the remote machine.

Since schedules should be run as a local domain administrator, you will be asked to create your own schedule – rather than relying upon a schedule created by MKS. Please click on the Create a schedule link and you will see the following page:

## Edit Schedule Properties

Schedule **My Test Schedule** defines the following triggers:

[Create a new Trigger for this Schedule](#)

 [Back](#)  [Help](#)

**Schedule Properties:**

Name:	<b>My Test Schedule</b>	<input type="checkbox"/> Disabled <input type="checkbox"/> Run in a hidden window
<input checked="" type="radio"/> Run as Local System		
<input type="radio"/> Run as this User:	User Name:	<input type="text"/>
	Password:	<input type="password"/>

**Monitors Triggered by this schedule** will run when the trigger(s) fire and **Available Monitors** will not run.

Available Monitors:		Monitors Triggered by this Schedule:
Disk Space Monitor: C: Ping Monitor: localhost Web Page Monitor: AlertCentre UI on localhost	<div>&gt;</div> <div>&gt;&gt;</div> <div>&lt;</div> <div>&lt;&lt;</div>	

Enter the username of a domain administrator and if you do not have JavaScript enabled, you will need to manually check the “Run as this user” option, and the corresponding password. Then push the >> button to add all the monitors to the schedule and then press save. Normally you associate monitors with a small set of well-defined schedules as you create the monitor, but you may also create a new schedule and associate monitors with it.

Once you have defined the name of the schedule, what monitors it triggers and whom it runs as, you should click *Save* and then specify when it runs using one or more triggers. Upon saving the schedule, you will automatically be taken to the first trigger page:

# Edit Trigger Properties

## Trigger (new) Properties:

Trigger Description:	Trigger has not been set to valid values			<input type="checkbox"/> Disabled
Start Date:	7	December	2001	at 18:12
<input type="radio"/> Trigger Task Once				
<input checked="" type="radio"/> Trigger Task Daily				
Every 1 day(s)				
<input type="radio"/> Trigger Task Weekly				
<input checked="" type="checkbox"/> Monday <input checked="" type="checkbox"/> Wednesday <input checked="" type="checkbox"/> Friday <input checked="" type="checkbox"/> Sunday				
<input checked="" type="checkbox"/> Tuesday <input checked="" type="checkbox"/> Thursday <input checked="" type="checkbox"/> Saturday				
<input type="radio"/> Trigger Task Monthly				
<input checked="" type="radio"/> Day 1 of the month(s)				
<input type="radio"/> The First Monday of the month(s)				
<input checked="" type="checkbox"/> January <input checked="" type="checkbox"/> July				
<input checked="" type="checkbox"/> February <input checked="" type="checkbox"/> August				
<input checked="" type="checkbox"/> March <input checked="" type="checkbox"/> September				
<input checked="" type="checkbox"/> April <input checked="" type="checkbox"/> October				
<input checked="" type="checkbox"/> May <input checked="" type="checkbox"/> November				
<input checked="" type="checkbox"/> June <input checked="" type="checkbox"/> December				
<input type="radio"/> Trigger Task At System Startup				
<input type="radio"/> Trigger Task At Logon				
<input type="radio"/> Trigger Task When Idle				
<input type="checkbox"/> Repeat Task				
Every: 10 Minutes				
Until: <input type="radio"/> Time: 00:00				
<input checked="" type="radio"/> Duration: 0 hour(s) 0 minutes(s)				
<input type="checkbox"/> End Date				
7 December 2001				

Save Reset

Select a start date and time for the trigger (nothing will happen until this date/time is passed), select the trigger type (once, daily, weekly, monthly, system startup, a user logon, or on idle). And fill in any parameters needed for that type (e.g. weekly on Monday and Wednesday). If you wish the trigger to fire more than once in a day, then select the “repeat task” check box and specify the repeat frequency and duration. If you wish the trigger to expire at some future date, select an end date.

E.g. an “Every 5 Minutes for the remainder of the decade” schedule would trigger daily, with a repeat interval of 5 minutes and a duration of 24 hours with an end date of 31 December 2010.

Then press “save” and you will be returned to the schedule editing page – but you will be able to edit, clone or delete the trigger you just created.

Click on the *Test a schedule* link to simulate the firing of a trigger and run the monitors – and any associated success or failure actions (several popup dialog boxes one after the other). Unlike the previous tests, which were run in the security context of the user logged into AlertCentre, this test actually runs the schedule in its own security context just as if the trigger had fired. You are now starting to see AlertCentre in action.



You will be taken to the schedule status page. Likely it will show something like the following:

## Status for My Test Schedule

My Test Schedule	At 18:12 every day, starting 2001-12-07
------------------	---

Current Status	The task has not yet run.
Next Run Time	08 Dec 2001 18:12:00
Most Recent Run Time	Never
Most Recent Exit Code	0

[Click here](#) to return to the master Schedule configuration page

 [Back](#)  [Help](#)



Note that this is a snapshot in time. You will likely need to refresh this page (right click in the frame and refresh the frame (the actual words in the menu will depend on the browser you are using). After refresh you might see that the schedule is running or that it is complete.

## Status for My Test Schedule

My Test Schedule	At 18:12 every day, starting 2001-12-07
------------------	---

Current Status	The task is ready to run at its next scheduled time.
Next Run Time	08 Dec 2001 18:12:00
Most Recent Run Time	07 Dec 2001 19:24:15
Most Recent Exit Code	0

[Click here](#) to return to the master Schedule configuration page

 [Back](#)  [Help](#)

A non-zero exit code would indicate that there were problems running the schedule.

## KEY POINTS



### Schedules and Triggers

1. Schedules and corresponding triggers are the traffic cops in AlertCentre that control when Monitors and Jobs are executed. A single schedule can be used to trigger one or many Monitors or Jobs.
2. Triggers can be fired: Once, Daily, Weekly, Monthly, at Startup, at Logon and when Idle.
3. Triggers can also be repeated on regular intervals defined in hours or minutes.
4. AlertCentre supports complex scheduling through the use of multiple triggers per schedule.

---

## Monitor Groups



A monitor group is a container with links to monitors. Deleting a monitor group has no effect on the contained monitors; it merely deletes the grouping. Cloning a monitor group builds a new monitor group containing the same monitors as the parent. Monitor groups are useful for viewing status of and testing multiple monitors. For example if you are responsible for a given area, say Microsoft Exchange administration, you might want create a group of all the monitors necessary to monitor a single Exchange server, which may include 4 or more Windows Service Monitors, plus an SMTP port monitor, along with several Disk Space Monitors, a CPU Utilization Monitor and a Memory Utilization Monitor. Such a group can help you to find, test and review the status of all the important health metrics of given Exchange Server quickly and easily.

Click on *View a Monitor Group* to see how a Monitor Group is defined.

# Edit Monitor Group

Monitor Group Name

Available Monitors:		Monitors included in this group:
<div>Ping Monitor: localhost</div>	<div>&gt;</div> <div>&gt;&gt;</div> <div>&lt;</div> <div>&lt;&lt;</div>	<div>Disk Space Monitor: C:</div> <div>Web Page Monitor: AlertCentre UI on localhost</div>

 [Back](#)  [Help](#)

The Monitor Group *My Monitoring Station* contains two monitors, the Disk Space Monitor “C:” and the Web Page Monitor “*AlertCentre UI on localhost*”. Feel free to make changes and save.

Click the browser refresh button to *View status by Monitor Group*. Be sure to view the status for the schedule *My Monitoring Station*. You will see output something like the following:

**Welcome to the AlertCentre Monitoring Station on localhost.**



This view defines 2 [Monitors](#).

2 error(s) were found.  
0 warning(s) were found.

Available views

The following is a list of current exceptions from Monitors on this view:

Web Page Monitor	AlertCentre UI on localhost	Errors:	The last run failed at 07 Dec 2001 20:29:53 <html> <!-- //////////////////////////////////// --> <!-- /// --> <!-- // MKS SOFTWARE INCORPORATED // - --> <
Disk Space Monitor	C:	Errors:	The last run failed at 07 Dec 2001 20:28:54 The drive c:/ is 38% full. Some action is needed

 [Back](#)  [Help](#)



This status page, usually the page you see when you first connect to AlertCentre or click on the host name on the Monitoring Station window. This screen shows you the current state of the AlertCentre Monitoring Station and in this case filtered by the Monitor Group. Since there are two monitors contained in the group (unless you changed it), you see failures for each member of the group. This screen will allow you to look at the overall state of the monitored objects or allow you to filter by group.

#### KEY POINTS



##### **Monitor Groups allow you to:**

1. Sort, filter and view manageable subsets of your configuration.
2. Manage virtual resources such as Web Stores that can be made up of multiple servers, ports, system services and applications, such as Microsoft SQL Server-based and Microsoft IIS-based applications.
3. Find, Test and View Status of groups of associated monitors all at one time.

### **Custom Monitors**

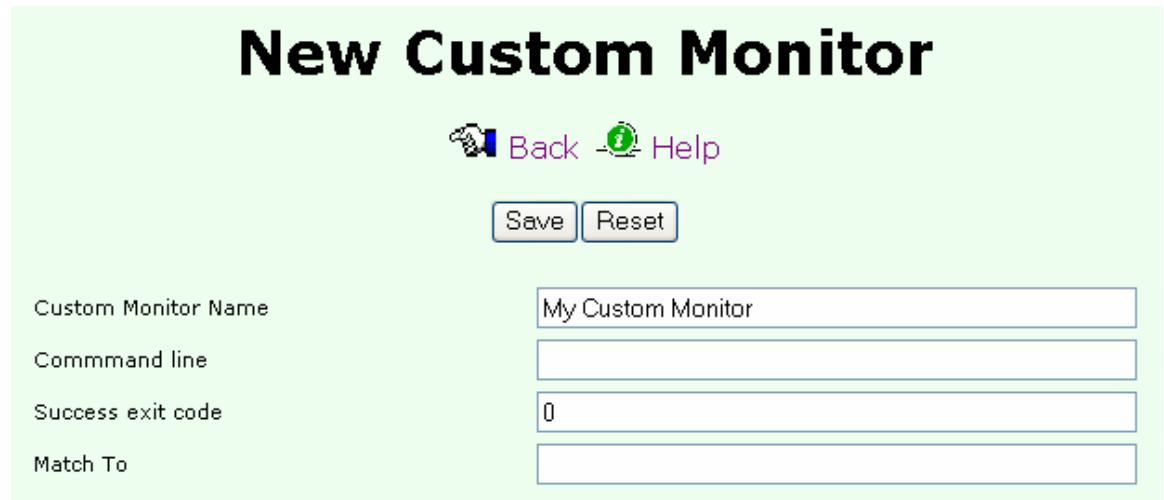
A key strength of AlertCentre is the flexibility of its architecture and its openness to customization to meet real world business needs. At MKS, we are constantly extending our own internal implementation of AlertCentre as we find new things that we need to monitor. Two key ways of extending AlertCentre are via custom monitors and via jobs. A custom monitors allows for almost infinite flexibility. Anything that you can imagine, you can implement as a custom monitor. A custom monitor is an executable program or script that is integrated with AlertCentre, such that it has the same attributes as other monitors: a schedule, actions and alerts, and escalation rules.

This example requires that you have a Linux machine configured to accept remote shell (rsh) connections from your Monitoring Station.

1. Ensure that your Linux machine will accept inbound connections from your Monitoring Station. One way to accomplish this is to set up a .rhosts file in the home directory of the user you wish to use.
2. Ensure that Perl is installed on the Linux machine.
3. Copy the cpuload custom perl script from the local Demonstrations directory to the Linux machine `rcp $ROOTDIR/Demonstrations/cpuload.pl username@linux\_machine:~/cpuload.pl`. (You can use scp instead of rcp if OpenSSH is installed on your Linux machine).
4. Log into the Linux machine and ensure that Perl is in /usr/bin (and if not update the #! Line in the cpuload.pl file accordingly). Also mark cpuload.pl as executable `chmod +x cpuload.pl`
5. Test a remote shell connection from the command line. `Rsh -l <linux_machine> -l <username> ~/cpuload.pl`. See documentation for rshd and rsh is this command

does not work immediately. Do not proceed to the next step until this works. Note that secure shell can be set up for password-less authentication and can be used instead of remote shell if you prefer.

6. Now return to the Evaluation Guide browser window and click *Create a Custom Monitor*. You will see this screen:



The screenshot shows a web form titled "New Custom Monitor" on a light green background. At the top, there are two links: "Back" with a left-pointing arrow icon and "Help" with a question mark icon. Below these are two buttons: "Save" and "Reset". The form contains four input fields with labels to their left: "Custom Monitor Name" (containing "My Custom Monitor"), "Commmand line" (empty), "Success exit code" (containing "0"), and "Match To" (empty).

7. In the *Command line* type: `rsh <linux_machine> -l <username> '~/cpupload.pl'`. The single quotes are needed as the ~ will be expanded by the local shell if not escaped.
8. The *Success exit code* will remain unchanged at zero
9. Please leave the *Match To* blank.
10. Press Save

Now click the *Test your Custom Monitor* link to see a Custom Monitor in action.

# Test complete

My Custom Monitor has been run. Here is the run log:

## Run log

Run Number	Run time	Run Status	Run Result
17	08 Dec 2001 13:09:20	Succeeded	The monitor (My Custom Monitor) performed successfully Program output: Current load average is 0.00 Below threshold.

☐ Show failures only

> Older 20

>> Oldest 20

[Click here](#) to return to the master Custom Monitor configuration page



[Back](#)



[Help](#)

### KEY POINTS



#### Extensibility

1. Custom Monitors allow you to extend the capabilities of AlertCentre to satisfy your unique monitoring needs.
2. MKS Toolkit, which comes bundled with AlertCentre, provides valuable tools such as Perl, rsh and secsh for extending the functionality of AlertCentre.
3. You can run programs on local or remote machines
4. You can monitor UNIX and Linux machines.
5. You can monitor your own custom applications and objects.

### Valuable AlertCentre Features

There are many valuable features of AlertCentre, which are not covered in the preceding evaluation demonstration, that need to be understood in order to grasp the overall value of this simple yet powerful availability monitoring solution.

#### Remote-ability

You don't have to be physically located at a Monitoring Station in order to use AlertCentre. The user interface provides the ability to configure and use AlertCentre from any location on a network through the use of a Web browser. This includes wireless, remote access over the Internet via VPN provided you have the appropriate

administrator privileges. It is best to install AlertCentre on a server for performance reasons and because this remote use functionality enables you to access your Monitoring Stations from almost any location at any time.

## **Built-in Redundancy**

AlertCentre is designed around the concept of a monitoring station, a machine that runs monitors and jobs that automate repetitive tasks and keep you informed of any problems in your system. A product that monitors for problems is not very useful if it does not run continually. What happens if the machine monitoring your network suddenly loses a network card, or the motherboard dies, or a faulty network hub or switch isolates it from the majority of the network? There must be a monitor-monitor to ensure that the monitoring continues even in such a disastrous situation.

Therefore AlertCentre has adopted the concept of a primary monitoring station, the one that normally performs monitoring, and a backup (a partner) monitoring station, whose job it is to ensure that the primary stays alive and to take over monitoring should the primary fail to respond. When the primary comes back on line, the backup will revert to its usual role. Should the primary ever go down, the backup will alert you in the manner that you choose. Although use of backup monitoring stations is optional, we highly recommend that you use them.

Every AlertCentre license lets you install AlertCentre twice: once on the primary monitoring station and once again on the backup monitoring station. During installation, you must choose the role of the monitoring station: primary or backup. After installing the software, you will establish the partnering relationship. Until you have established the specific partnering relationship between two monitoring stations, you can change a monitoring station's role from primary to backup and vice-versa.

Once you establish the partnering relationship between the primary and its backup, all configuration information from the primary is replicated to the backup, so that the backup is ready to take over monitoring should the need arise. Periodically from that point on, the primary signals the backup that it is still alive and the partners synchronize any configuration information that has changed since the previous synchronization point. You can force a manual synchronization at any time and you can sever the primary-backup relationship.

## **Security**

To ensure sufficient privileges, all users of AlertCentre must be members of the Administrators and AlertCentre Administrators groups. The AlertCentre Administrators group is created locally during installation. By default, all local Administrators and Domain Admins (if the machine belongs to a domain) are added to this group to facilitate use of AlertCentre. All AlertCentre files including the HTML tree, components, and configuration files are secured such that AlertCentre Administrators have full control.

At any time, you can change membership in this group by selecting **Manage AlertCentre Administrators** on the Housekeeping page. Note that adding users to the AlertCentre Administrators group will permit access to the Graphical User Interface, but

will not provide any rights to access the network or network resources. We recommend that you only add domain administrators to this group.

Other security issues are covered in the AlertCentre Users Guide.

## **No-agent Architecture**

MKS AlertCentre was designed to function without requiring agents on monitored servers and other devices. This architecture has multiple benefits in terms of reduced maintenance and improved security. Since there are no agents to install on monitored machines, there is no need to install or maintain monitoring software on those machines for monitoring purposes. In some cases, you may want to install MKS Toolkit for System Administrators on monitored machines to enable secure, remote access to such machines for corrective action via secshd.

## **Extensibility**

AlertCentre is built almost entirely from scripts. The back end monitors, event handlers and alerting engines are written in Perl. A very small amount of “C” and C++ code is encapsulated in about four COM components. To learn more about scripting and to learn more about the AlertCentre implementation, please read the Evaluation Guide for MKS Toolkit for System Administrators Start →Programs→MKS Toolkit→Evaluation Guide→For System Administrators→MKS TKSA Evaluator’s Guide.

All of the scripts used to build AlertCentre are available on your Monitoring Stations as examples for you to use in building custom monitors, jobs and actions. In addition, every copy of AlertCentre requires MKS Toolkit so you also have at your disposal all the tools and scripting engines that MKS used to build AlertCentre. You are encouraged to copy a few of AlertCentre’s scripts and modify them to fit your needs better. Then you can implement them as Custom scripts without affecting the rest of AlertCentre. Once you experience the power of scripting, you’ll have more freedom to satisfy the needs of your organization. The back end scripts can be found in \$ROOTDIR/AlertCentre/Scripts and it.

## ***Wrapping up the evaluation***



Thank you for evaluating the MKS AlertCentre. AlertCentre is built on the scripting power of MKS Toolkit for System Administrators. Please see its Evaluation Guide for more detailed information about the underlying implementation and the power of scripting.

The Evaluation Guide sample configuration is full of useful examples and we encourage you to stray beyond the boundaries of this evaluation and experiment with this example configuration. When you are ready to remove this configuration, click on the *Wrapping up* link. You will have two options:

1. Restore the state you saved at the beginning of the evaluation. Use the same password you used for the backup.

# HouseKeeping

Restore from:	Program Files/MKS Toolkit/AlertCentre/Backup/MyCurrentState
Backup passphrase:	<input type="text"/>

 [Back](#)  [Help](#)

2. Restore an empty configuration. Use the password *Empty* to restore this configuration.

# HouseKeeping

Restore from:	C:/Program Files/MKS Toolkit/AlertCentre/Backup/EmptyConfiguration
Backup passphrase:	<input type="text"/>

 [Back](#)  [Help](#)

Once you have restored one of these configurations, you are ready to build or improve your own configuration. Enjoy! In the unlikely event that we have left you with questions, please feel free to contact your MKS Software Sales Manager or Customer Support Representative.

## Customer Support

MKS offers extensive customer support to ensure your success with our products. At any time during your evaluation of our products, please feel free to contact us concerning any issues that may arise.

The evaluation versions of any MKS Toolkit products include free support from the time of installation. In order to continue support beyond the evaluation period you must purchase a fully licensed version of the product along with a Preferred Customer Support (PCS) contract. PCS is renewable annually for a small fee and entitles you to unlimited customer support, patches, bug fixes, and product upgrades. All of our sales channels offer MKS Toolkit products with bundled PCS for your convenience. You may also purchase unbundled PCS contracts by contacting MKS directly

To receive support, you must register. You will have the chance to register with our support organization during installation of your product, or you may do so at any time over the web at <http://www.mksoftware.com/register>.

To request customer support, please contact us by one of the means listed below and in your request, include the name and version number of the product that you are using,

your serial number, and the operating system and version/patch level that you are using.  
Contact MKS customer support at:

Web: <http://www.mkssoftware.com/support>

E-mail: [mailto:tk\\_support@mkssoftware.com](mailto:tk_support@mkssoftware.com)

Telephone: +1-703-803-7660 (9:00am to 7:00pm Eastern, Mon-Fri)

Fax: +1-703-803-3344

## **Additional MKS Toolkit Resources**

There are several other sources for additional information about our MKS Toolkit products. We have general product information, including technical specifications, detailed utility listings, and datasheets at:

MKS Toolkit Product Information: <http://www.mkssoftware.com/products>

We offer a resource kit including example scripts, additional utilities, more tutorials, and a wide variety of other useful information at:

MKS Toolkit Resource Kit Page: <http://www.mkssoftware.com/reskit>

The MKS Toolkit product family also offers a number of Add-On components for download from our Web site:

MKS Toolkit Add-On Page: [http://www.mkssoftware.com/support/add\\_ons.asp](http://www.mkssoftware.com/support/add_ons.asp)

Through the years, we have accumulated a lot of technical details about the MKS Toolkit products and have put this information in a searchable database at:

MKS Toolkit Knowledge Base: <http://www.mkssoftware.com/support/kb>

Our customers commonly ask certain questions. These questions and their answers are in our Frequently Asked Questions pages at:

MKS Toolkit FAQs: <http://www.mkssoftware.com/support/faqs>

## **Ordering Information**

MKS Toolkit can be purchased from the [MKS Web Store](#), from [MKS Software Sales](#), from our [resellers](#), or by calling +1-703-803-3343 or 1-800-637-8034.