

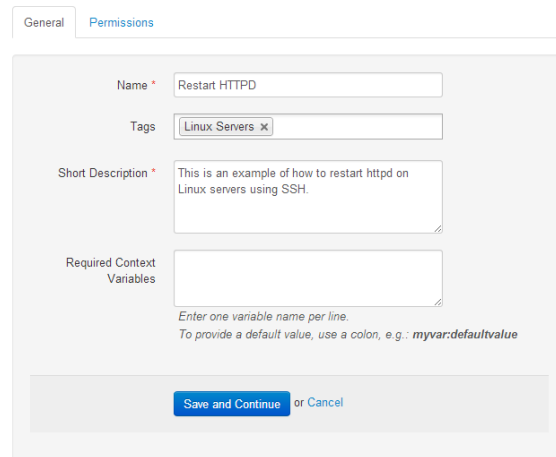
Nagios Reactor – Executing Remote Commands via SSH

Next, you will be prompted for details about the new event chain.

Details

- **Name** – Required name for the event chain
- **Tags** – Logical grouping, for example “Linux Servers”
- **Short Description** – A description to help you or others know what this chain is designed to do
- **Required Context Variables** – These are variables that can be passed to the chain at run time. You can either assign context here, which will always be passed to your chain, or via GET or POST when the chain is invoked.

Add Event Chain



To complete the process of adding the chain, click **Save and Continue**

Save and Continue

Defining the Decision Process

This section describes how to define the actions that will be taken when the print service fails.

1. To begin, click the **Workflow** tab: The Workflow defines all steps to take and is how the decision structure is defined.
2. Next, let's start adding some items to our event chain:
Click **Add a block**

Home / Event Chains / Restart HTTPD Event

Success: The event chain was created.

Restart HTTPD Event

1

General Workflow Schedule History

⬇ ⬆ ⬇

No blocks defined yet.

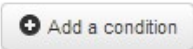
2

➕ Add a block ✓ Save Changes or Cancel

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With **Add Block**, we can define the logic that goes into our chain. The logic will flow like this:

To begin:

 We won't need an "If" condition in this example, so you can skip to **Then**.

Click **Add a success action**

Then:

No actions specified yet.



1. From the Action Type dropdown, select *Execute a remote command via SSH*
2. Populate address and credentials. You can pass them as context variables or hard code them like in the example to the right. (The next example in this document will be using context variables)
3. In the Remote Command field, enter "service httpd restart"

After you've completed filling in the required fields, click **Save**.

Save

Edit action

Action Type * Execute a remote command via SSH

Hostname * 192.168.4.27

Remote User * root

Authentication Type * Password

Password * *****

Remote Command * service httpd restart




☐ Disabled

Close **Save**

Here's how our decision tree looks now:

Restart HTTPD Event

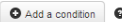
[General](#) [Workflow](#) [Schedule](#) [History](#)

Block #1 Logic Block Nick

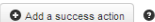
If all of the following:

No conditions added yet.



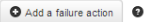
Then:

Execute command 'service httpd restart' via SSH on host '192...



Else:

No actions specified yet.



After successful review of your chain, click **Save Changes**.



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Here is the Log from running our newly created chain. You can see that the chain steps have run:

1. The SSH connection resolved
2. Command execution was successful
3. Command output and the Run complete status of (0) , which is a successful run result.



Log Viewer - Restart HTTPD Event

```
qualified domain name, using 127.0.0.1 for ServerName [ OK ]
INFO - 2014-08-14 13:33:15: STEP 1 : ***** BEGIN RUN 1439 *****
INFO - 2014-08-14 13:33:15: STEP 1 : Matching all conditions for step 1
INFO - 2014-08-14 13:33:15: STEP 1 : Running success actions.
INFO - 2014-08-14 13:33:15: STEP 1 : action (Execute a remote command via SSH) : (context) : Running action: Execute command
'service httpd restart' via SSH on host '192.168.4.27'
INFO - 2014-08-14 13:33:15: STEP 1 : action (Execute a remote command via SSH) : (context) : Initializing ssh connection...
INFO - 2014-08-14 13:33:15: STEP 1 : action (Execute a remote command via SSH) : (context) : Using password authentication.
INFO - 2014-08-14 13:33:15: STEP 1 : action (Execute a remote command via SSH) : (context) : Authentication successful. Running
remote command: service httpd restart
INFO - 2014-08-14 13:33:15: STEP 1 : action (Execute a remote command via SSH) : (context) : Got output: Stopping httpd: [ OK ]
Starting httpd: httpd: apr_sockaddr_info_get() failed for Xldevel.localdomain httpd: Could not reliably determine the server's fully
qualified domain name, using 127.0.0.1 for ServerName [ OK ]
INFO - 2014-08-14 13:33:15: STEP 1 : action (Execute a remote command via SSH) : (context) : (Execute command 'service httpd
restart' via SSH on host '192.168.4.27') finished with result (0)
INFO - 2014-08-14 13:33:15: STEP 1 : Run complete (success)
```

Context Variable Method

Now that we successfully executed a command using hard coded values, we will now run the same event chain using context variables.

Here is the previous chain, but with context variables added.

1. **Hostname** will be populated by the “%HOST%” context variable.
2. **Remote User** will be populated by the “%USER%” context variable.
3. The **Password** field currently has “%PASSWORD%” in the field even though it is hidden from view.
4. The **Remote Command** has the service “%SERVICE%” restart command. This will allow any service to be restarted.

Edit action

Action Type * Execute a remote command via SSH

1 Hostname * %HOST%

2 Remote User * %USER%

Authentication Type * Password

3 Password *

4 Remote Command * service %SERVICE% restart

☐ Disabled

Close Save

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Here is a context variable example based on the new action we created above:

It is important to note that all the context variables that were added in the previous action are case sensitive.

Run Event Chain: Restart HTTPD Event X

Context

HOST	192.168.4.27	⊗
USER	root	⊗
PASSWORD	Xlpassword	⊗
SERVICE	httpd	⊗

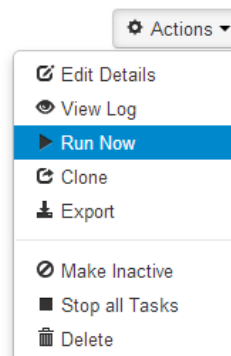
⊕ Add

Cancel Run

Troubleshooting

For testing and troubleshooting, you can launch the action manually

- On the right hand side > Choose “Actions” > Select “Run Now”
- Use the log viewer for debugging and finding out which parts of your chain are failing



This concludes the process of running SSH commands via a remote machine.

Finishing Up

If you have any questions about executing remote commands via SSH with Nagios Reactor, contact our support team via our online forum at: <http://support.nagios.com/forum>