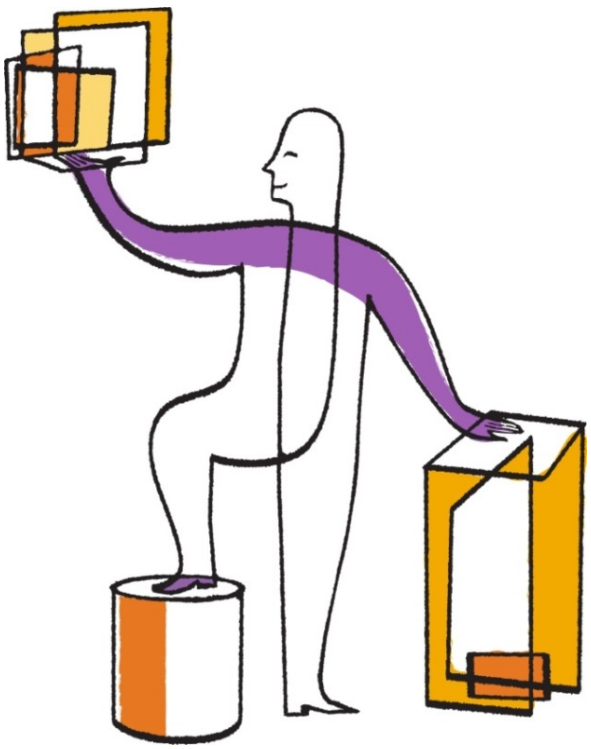
NetApp SANtricity® Plug-in for Nagios 1.0

Installation and User Guide



NetApp, Inc.
495 East Java Drive
Sunnyvale, CA 94089
U.S.

Telephone: +1 (408) 822-6000
Fax: +1 (408) 822-4501
Support telephone: +1-(888) 463-8277
Web: http://www.netapp.com
Feedback: doccomments@netapp.com

Part number: 215-10641_A0
Release date: October 2015

TABLE OF CONTENTS

1 OVERVIEW 1
2 INSTALLATION 1
NAGIOS QUICK INSTALLATION 1
NETAPP WEB PROXY INSTALLATION 1
3 PLUG-IN CONFIGURATION 2
WIZARD DEPLOYMENT 2
4 KNOWN SCENARIOS 6
HOST CONFIGURATION 6
SERVICE CONFIGURATION 6

LIST OF FIGURES

Figure 1 - Manage Configuration Wizards 2
Figure 2 - Configuration Wizard 3
Figure 3 - Configure Monitor Services 4
Figure 4 - Configure Monitor Frequencies 5
Figure 5 - Configure Notification Settings 5
Figure 6 - Configure Group Membership 6

1 OVERVIEW

The configuration wizard can be used to configure plug-ins, host, commands and services on Nagios XI. After installation of the configuration wizard, run the configuration wizard to selectively enable or disable specific monitoring services for each storage array within your environment.

2 INSTALLATION

The table below summarizes the prerequisites and requirements.

Component	Location
Nagios XI	Download and Install Nagios XI using the steps in the following link. https://assets.nagios.com/downloads/nagiosxi/docs/XI_Manual_Installation_Instructions.pdf
Install Python Requests Package	Download the latest package from: https://pypi.python.org/pypi/requests and use the following command to install the package after extraction: **`python setup.py install`**
Verify the Nagios app is up and running	Check installation by accessing Nagios application through a browser at: http://*<host_address>*/nagiosxi
NetApp SANtricity Web Service Proxy	Install the latest build of the NetApp SANtricity Web Service Proxy. http://mysupport.netapp.com/NOW/cgi-bin/software?product=E-Series%2FEF-Series+SANtricity+Management+Plug-ins&platform=WebServices

Nagios Quick Installation

1. Deploy a fresh clean install of CentOS 5/6/7 or RHEL 5/6.
2. Download and install latest stable Nagios XI:

```
wget http://assets.nagios.com/downloads/nagiosxi/xi-latest.tar.gz
tar -xzvf xi-latest.tar.gz
cd nagiosxi
./fullinstall
```

3. Install Python Requests package:

```
wget https://pypi.python.org/packages/source/r/requests/requests-2.7.0.tar.gz
tar -xzvf requests-2.7.0.tar.gz
cd requests-2.7.0
python setup.py install
```

NetApp Web Proxy Installation

1. Download the latest version of NetApp SANtricity Web Services Proxy on the target host.
2. Install the Web Services Proxy:

```
chmod +x webservice-01.20.7000.0005.bin
./webservice-01.20.7000.0005.bin
yum -y install redhat-lsb-core.x86_64   <-- only needed for newer NIX using systemctl
/etc/init.d/web_services_proxy start
firewall-cmd --zone=public --add-port=8443/tcp --permanent   <-- default zone and port
firewall-cmd --reload
```

3 PLUG-IN CONFIGURATION

This section describes deployment, Configuration and Monitoring of Nagios - Wizard.

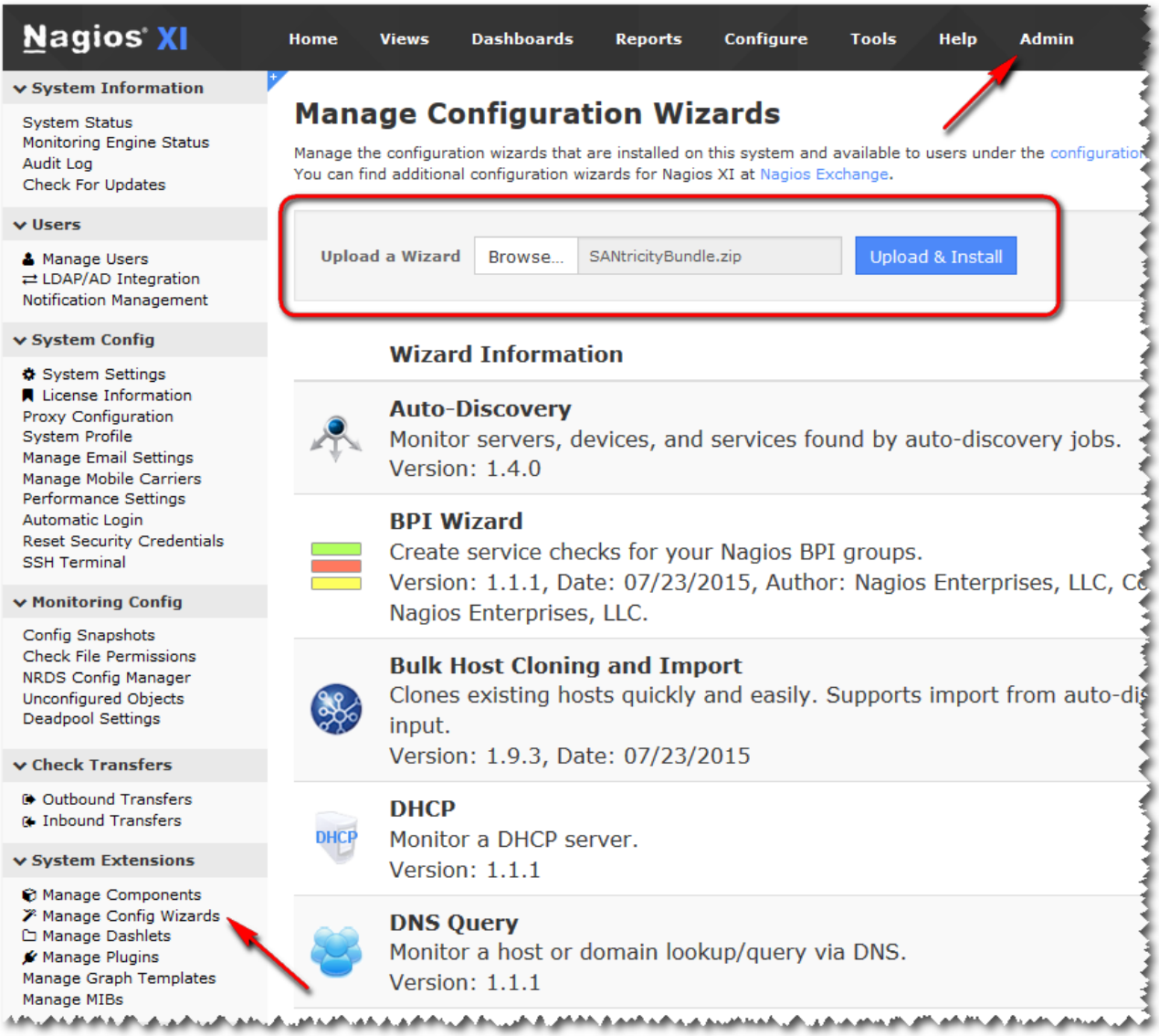
Wizard Deployment

This section describes the setup of how to add the SANtricity Configuration Wizard to Nagios XI.

STEPS TO ADD WIZARD:

1. Login to the Nagios XI with the *nagiosadmin* user ID.
2. Click on the **Admin** view.
3. Under the **System Extensions** side menu, click the **Manage Config Wizards** link.
4. Click on the **Browse** button and select the **SANtricityBundle.zip** file from the local system.
5. Click the **Upload & Install** button to complete the wizard installation.

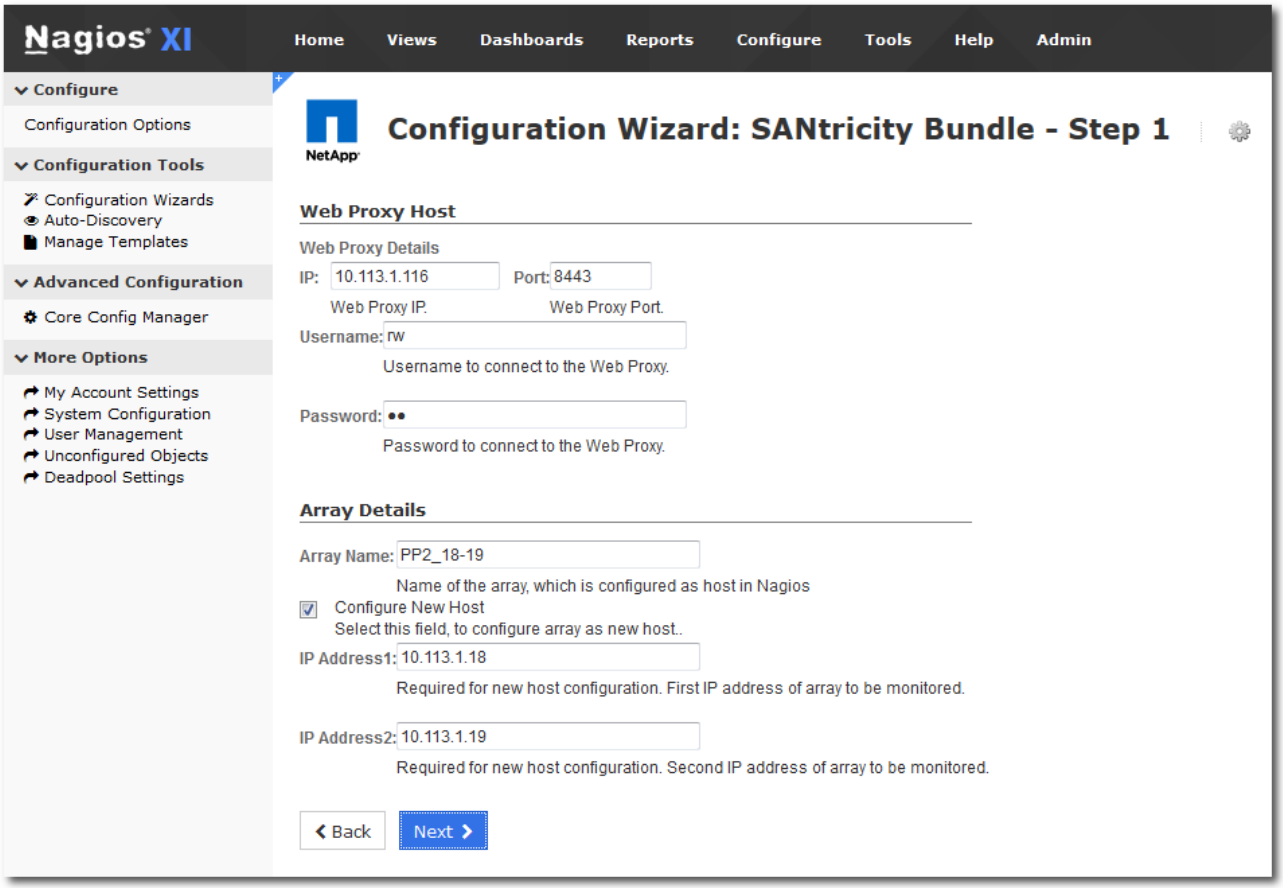
Figure 1 - Manage Configuration Wizards



STEPS TO CONFIGURE WIZARD:

1. Log into Nagios XI with administrator credentials.
2. Click on the **Configure** view from the top menu.
3. Under the **Configuration Tools** side menu, click the **Configuration Wizards** link.
4. Scroll or search through the available wizards to locate and click on the **SANtricity Bundle** wizard.

Figure 2 - Configuration Wizard

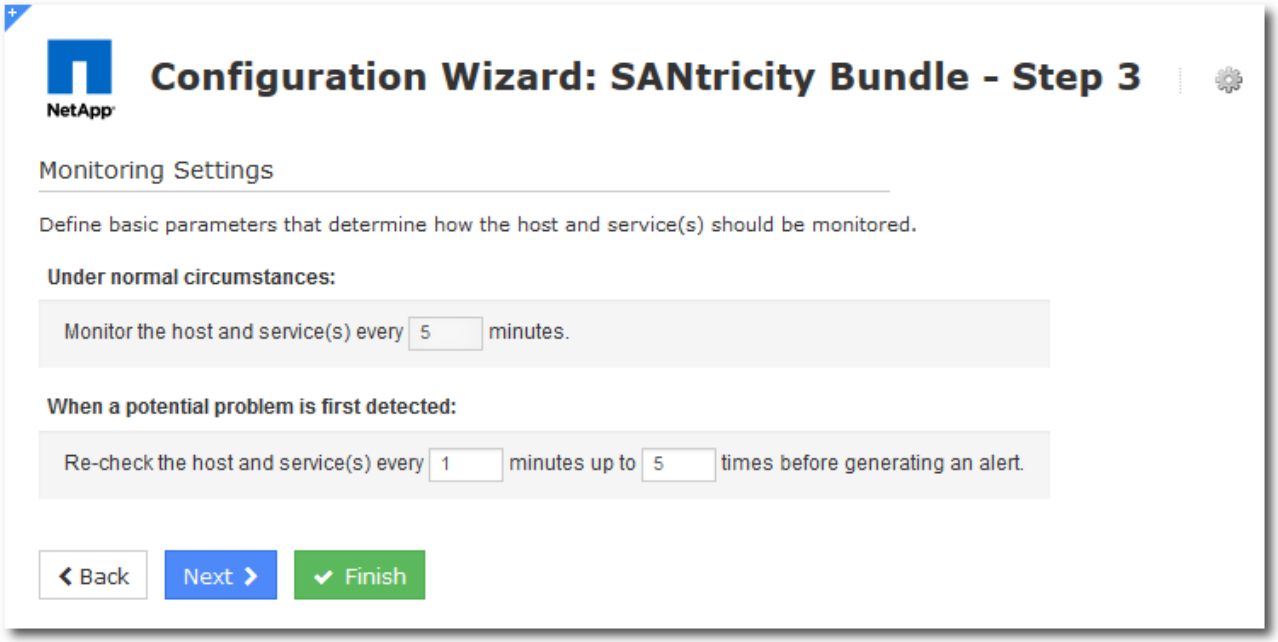


5. Enter the details for the web services proxy host and storage array to manage and click **Next**.

Figure 3 - Configure Monitor Services

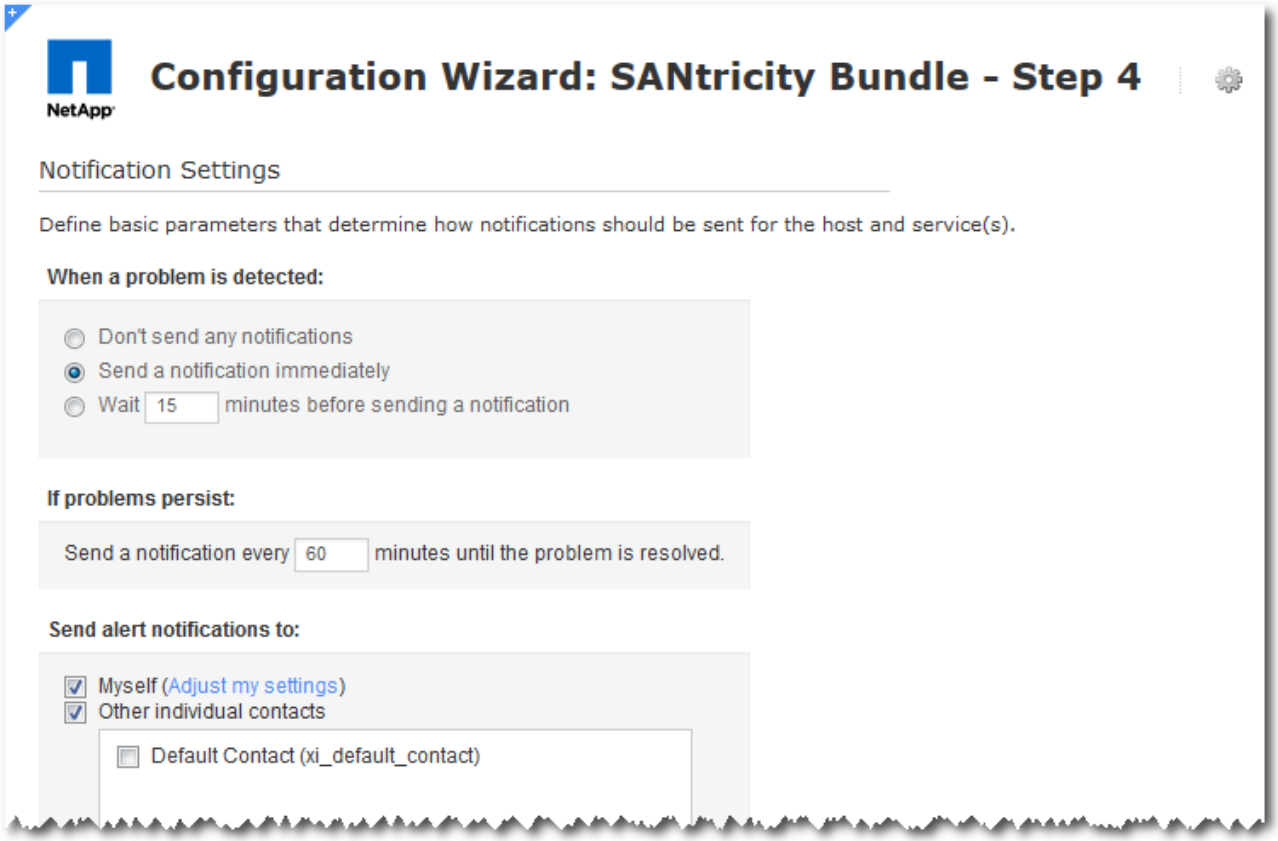
6. Select the monitor services that you want to associate with the selected storage array.
7. Adjust the warning and critical values to suit your environment or except the defaults and adjust the monitors after obtaining baseline information.

Figure 4 - Configure Monitor Frequencies



8. Adjust frequency of monitors.

Figure 5 - Configure Notification Settings



9. Adjust notification settings.

Figure 6 - Configure Group Membership

10. Configure group memberships.
11. Click **Apply** to complete the configuration.

4 KNOWN SCENARIOS

Host Configuration

- There are two possibilities when the user selects the checkbox for "Configure New Host" as follows:-
  - If the entered Array Name does not match with any existing host then a New Host would be configured.
  - If the entered Array Name matches with an existing host then it will overwrite the configuration for the existing Host.
- There are two possibilities when user does not selects the checkbox for "Configure New Host" as follows:-
  - If the user enters an Array Name which does not match to any existing Host in Nagios then the service configuration will fail. User needs to delete incorrect service and host manually.
  - If the user enters an Array Name which matches an existing host it will skip the host configuration and configure the services selected for the Array.
- Initial configuration reports host (storage array) as not configured on proxy server.
  - Resolve by temporarily disabling firewall on proxy host and enabling ports 8080 and 8443 on both proxy host and Nagios host. After initial communication is established between Nagios and proxy host with new array configuration, the firewall can then be re-enabled.

Service Configuration

- Nagios will overwrite existing services and create services which are not present.

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You can also contact us in the following ways:

NetApp, Inc., 495 East Java Drive, Sunnyvale, CA 94089 U.S.
Telephone: +1 (408) 822-6000
Fax: +1 (408) 822-4501
Support telephone: +1 (888) 463-8277

NetApp