**CYBER FORZA**

A reference document used to how to integrate Nagios  with LDAP allowing users to authenticate with their LDAP credentials.

Revision: Draft specification 1.0

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| --- | --- | --- |
| Date | Revision No. | Description |
| 12/07/17 | Draft Release 1.0 | Initial version |
|  |  |  |

# 1 Revision History

# 2 Quick Start Guide

# 2.1 System Specification

*Table 1: System Configuration*

|  |
| --- |
| * Ubuntu 16.04.1 LTS (Linux Kernel 4.4) |
| * System RAM: 3911776 KB |
| * Hard Disk space: 21.1 GB |
| * OS type: 64-bit |
| * Memory: 3.7 GiB |
| * Processor: Intel Core 2 Duo CPU E8400 @ 3.00GHz x 2 |

# 2.2 Support Information

* Please contact the Cyber Forza Inc. team for support

# 2.3 Getting Started

This guide assumes that you installed Nagios, based on the Guide: How To Install Nagios on Ubuntu

This guide assumes that you installed pnp4nagios based on the Guide How To Install pnp4nagios on Ubuntu

You should configure the following files as are in the directories nagios-4.1.1.Appendix and pnp4nagios-0.6.25.Appendix , contained in the package cf.monitoring.utilities.1-0.deb. The file README provide the information necessary to go through the  
process and to update the files that need to be replaced.

# 3 Configuration files

**Directory: nagios-4.1.1.Appendix  
*nagios.conf***  
  
  
# SAMPLE CONFIG SNIPPETS FOR APACHE WEB SERVER  
#  
# This file contains examples of entries that need  
# to be incorporated into your Apache web server  
# configuration file.  Customize the paths, etc. as  
# needed to fit your system.  
  
*ScriptAlias /nagios/cgi-bin "/usr/local/nagios/sbin"  
  
<Directory "/usr/local/nagios/sbin">  
   Options ExecCGI  
   AllowOverride None  
   <IfVersion >= 2.3>  
      <RequireAll>  
         Require all granted  
AuthBasicProvider ldap  
   AuthType Basic  
   AuthName " LDAP Authentication for Nagios Monitoring"  
   AuthLDAPURL "ldap://192.168.50.110:389/dc=saitechnology,dc=com"  
         Require valid-user  
      </RequireAll>  
   </IfVersion>  
</Directory>  
  
Alias /nagios "/usr/local/nagios/share"  
  
<Directory "/usr/local/nagios/share">  
   Options None  
   AllowOverride None  
   <IfVersion >= 2.3>  
      <RequireAll>  
         Require all granted  
AuthBasicProvider ldap  
   AuthType Basic  
   AuthName " LDAP Authentication for Nagios Monitoring"  
   AuthLDAPURL "ldap://192.168.x.x.:389/dc=saitechnology,dc=com"  
         Require valid-user  
      </RequireAll>  
   </IfVersion>  
</Directory>  
  
  
  
<Directory "/usr/local/pnp4nagios/share">  
        AllowOverride None  
        Order allow,deny  
        Allow from all  
        #  
        # Use the same value as defined in nagios.conf  
        #  
        #AuthName "Nagios Access"  
        #AuthType Basic  
        #AuthUserFile /usr/local/nagios/etc/htpasswd.users  
        Require valid-user  
        <IfModule mod\_rewrite.c>  
                # Turn on URL rewriting  
                RewriteEngine On  
                Options FollowSymLinks  
                # Installation directory  
                RewriteBase /pnp4nagios/  
                # Protect application and system files from being viewed  
                RewriteRule ^(application|modules|system) - [F,L]  
                # Allow any files or directories that exist to be displayed directly  
                RewriteCond %{REQUEST\_FILENAME} !-f  
                RewriteCond %{REQUEST\_FILENAME} !-d  
                # Rewrite all other URLs to index.php/URL  
                RewriteRule .\* index.php/$0 [PT,L]  
        </IfModule>  
</Directory>*

***apache2.conf***  
Add these lines in the file apache2.conf  
*LoadModule ldap\_module /usr/lib/apache2/modules/mod\_ldap.so  
LoadModule authnz\_ldap\_module /usr/lib/apache2/modules/mod\_authnz\_ldap.so*

**Directory: pnp4nagios-0.6.25.Appendix**

***pnp4nagios.conf***

# SAMPLE CONFIG SNIPPETS FOR APACHE WEB SERVER

Alias /pnp4nagios "/usr/local/pnp4nagios/share"

<Directory "/usr/local/pnp4nagios/share">

AllowOverride None

Order allow,deny

Allow from all

#

# Use the same value as defined in nagios.conf

#

AuthBasicProvider ldap

AuthType Basic

AuthName " LDAP Authentication for Nagios Monitoring"

AuthLDAPURL "ldap://192.168.x.x:389/dc=saitechnology,dc=com"

Require valid-user

<IfModule mod\_rewrite.c>

# Turn on URL rewriting

RewriteEngine On

Options symLinksIfOwnerMatch

# Installation directory

RewriteBase /pnp4nagios/

# Protect application and system files from being viewed

RewriteRule "^(?:application|modules|system)/" - [F]

# Allow any files or directories that exist to be displayed directly

RewriteCond "%{REQUEST\_FILENAME}" !-f

RewriteCond "%{REQUEST\_FILENAME}" !-d

# Rewrite all other URLs to index.php/URL

RewriteRule "^.\*$" "index.php/$0" [PT]

</IfModule>

</Directory>

ScriptAlias /nagios/cgi-bin /usr/local/nagios/sbin

<Directory "/usr/local/nagios/sbin">

AllowOverride AuthConfig

Options ExecCGI

Order allow,deny

Allow from all

</Directory>

After finish the modifications, restart the services implied:

Apache, Nagios and pnp4nagios based on the respectively guides.

For reference of each item in the file configuration, please review the Reference Links.

Reference links

<https://httpd.apache.org/docs/2.4/howto/auth.html>  
  
<https://httpd.apache.org/docs/2.4/mod/mod_authnz_ldap.html>