

Module 3: Continuous Monitoring using Nagios XI

Demo Document 2

Demo: Demo on Configuration of plugins, users, and Managing Nagios XI.

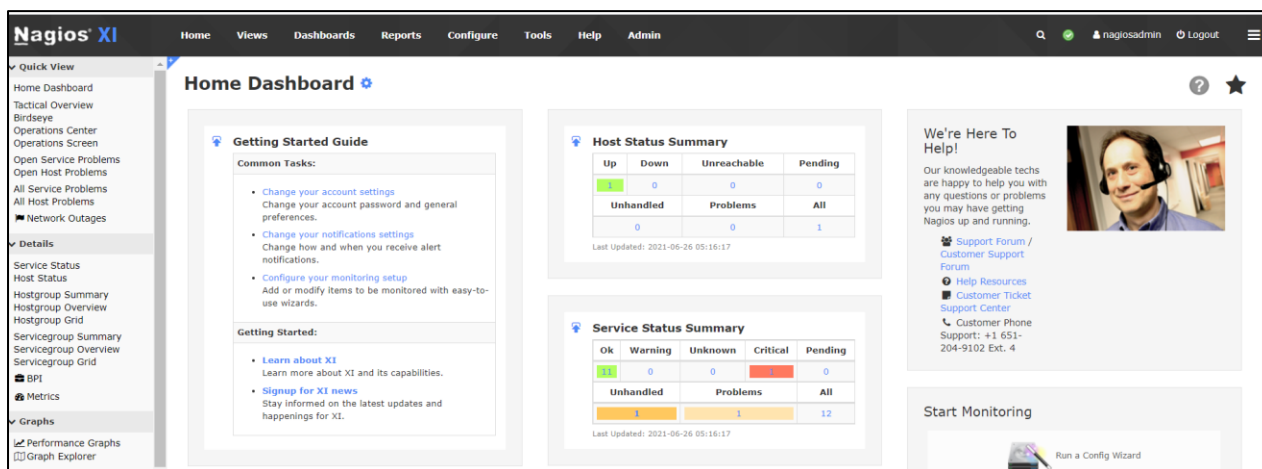
Problem Statement:

Part 1 - Adding users to Nagios.

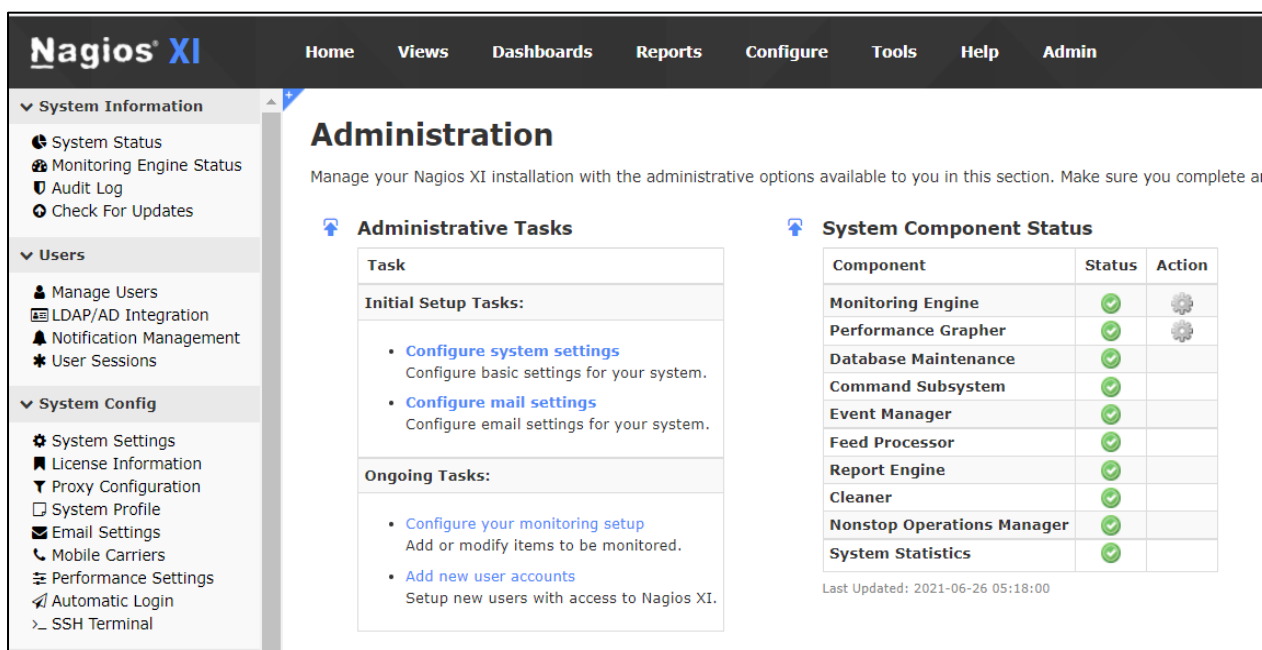
Solution Steps:

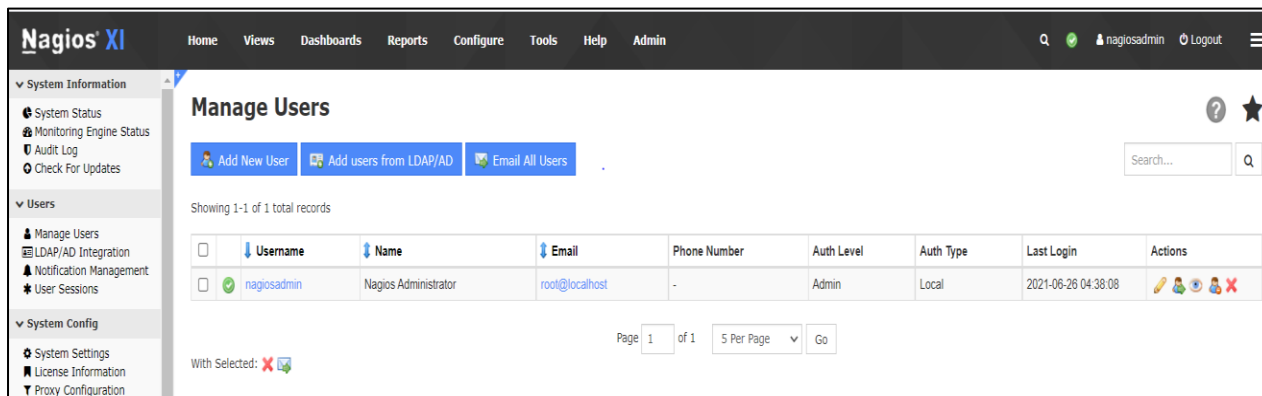
NOTE – Refer MODULE 3 DEMO 1 to install and configure NAGIOSXI.

1. Login to **NAGIOSXI** application as an **ADMINISTRATOR**. Navigate to **ADMIN** section.



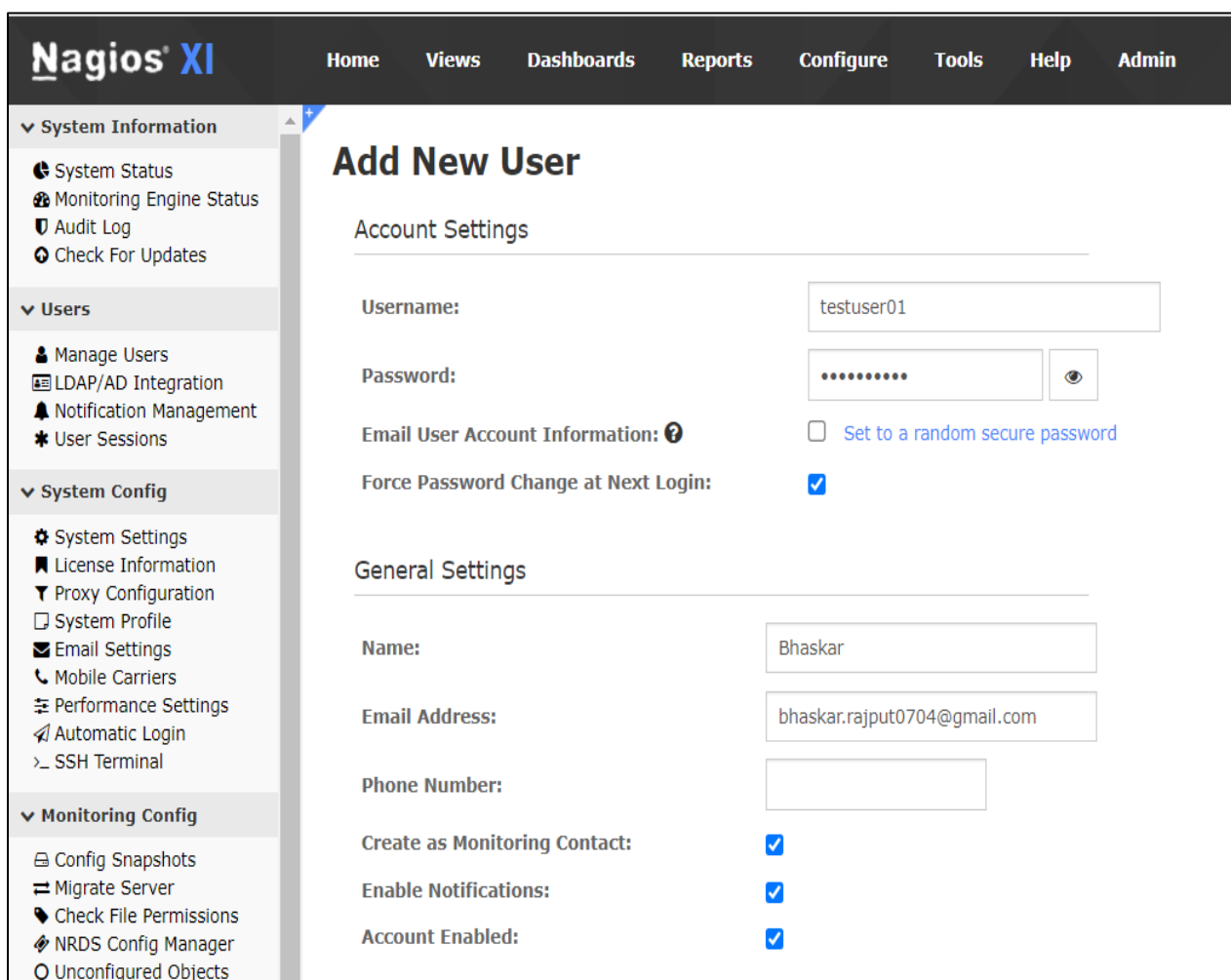
2. Now click on **MANAGE USERS** on left side menu as shown in the below screenshot.



3. Click on ADD NEW USER.

The screenshot shows the Nagios XI 'Manage Users' page. The left sidebar contains navigation links for System Information, Users, and System Config. The main content area has buttons for 'Add New User', 'Add users from LDAP/AD', and 'Email All Users'. Below these is a table with one record for 'nagiosadmin'. The table columns are Username, Name, Email, Phone Number, Auth Level, Auth Type, Last Login, and Actions. The 'nagiosadmin' user has the email 'root@localhost' and last login '2021-06-26 04:38:08'. At the bottom, there is a pagination control showing 'Page 1 of 1' and '5 Per Page'.

	Username	Name	Email	Phone Number	Auth Level	Auth Type	Last Login	Actions
<input type="checkbox"/>	nagiosadmin	Nagios Administrator	root@localhost	-	Admin	Local	2021-06-26 04:38:08	

4. Provide username and password as testuser01. Now provide your name and email address.

The screenshot shows the Nagios XI 'Add New User' form. The left sidebar is the same as in the previous screenshot. The main content area is titled 'Add New User' and has two sections: 'Account Settings' and 'General Settings'. In the 'Account Settings' section, the 'Username' field is filled with 'testuser01'. The 'Password' field is masked with dots. There is a checkbox for 'Email User Account Information' with a link 'Set to a random secure password'. The 'Force Password Change at Next Login' checkbox is checked. In the 'General Settings' section, the 'Name' field is filled with 'Bhaskar'. The 'Email Address' field is filled with 'bhaskar.rajput0704@gmail.com'. The 'Phone Number' field is empty. The 'Create as Monitoring Contact', 'Enable Notifications', and 'Account Enabled' checkboxes are all checked.

Account Settings

Username: testuser01

Password:

Email User Account Information: ☐ [Set to a random secure password](#)

Force Password Change at Next Login: ☒

General Settings

Name: Bhaskar

Email Address: bhaskar.rajput0704@gmail.com

Phone Number:

Create as Monitoring Contact: ☒

Enable Notifications: ☒

Account Enabled: ☒

- Under the **SECURITY SECTIONS** set **Authorization level** as **USER** and select the options as mentioned in the below screenshot.

Security Settings

Authorization Level: ?	User ▼
Can see all hosts and services: ?	<input checked="" type="checkbox"/>
Can control all hosts and services: ?	<input type="checkbox"/>
Can configure hosts and services: ?	<input type="checkbox"/>
Can access advanced features: ?	<input type="checkbox"/>
Can access monitoring engine: ?	<input type="checkbox"/>
Read-only access: ?	<input checked="" type="checkbox"/>
API access: ?	<input type="checkbox"/>
Auto deploy access: ?	<input type="checkbox"/>
Core Config Manager access: ?	None ▼

- Leave all remaining configuration as DEFAULT and click on **ADD USER**.

Nagios XI

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System Information

System Status

Monitoring Engine Status

Audit Log

Check For Updates

Users

Manage Users

LDAP/AD Integration

Notification Management

User Sessions

System Config

System Settings

License Information

Proxy Configuration

System Profile

Email Settings

Mobile Carriers

Performance Settings

Automatic Login

SSH Terminal

Monitoring Config

Config Snapshots

Migrate Server

Check File Permissions

NRDS Config Manager

Unconfigured Objects

SNMP Trap Interface

Deadpool Settings

Check Transfers

Outbound Transfers

Inbound Transfers

System Extensions

General Settings

Name:

Bhaskar

Email Address:

bhaskar.rajput0704@gmail.com

Phone Number:

Create as Monitoring Contact:

☒

Enable Notifications:

☒

Account Enabled:

☒

Preferences

Language:

English (English) ▼

Date Format:

YYYY-MM-DD HH:MM:SS ▼

Number Format:

1000.00 ▼

Week Format:

Sunday - Saturday ▼

Authentication Settings

Auth Type:

Local (Default) ▼

Add User

Cancel

Can access advanced features:

☐

Can access monitoring engine:

☐

Read-only access:

☒

API access:

☐

Auto deploy access:

☐

Core Config Manager access:

None ▼

7. New user **testuser01** added successfully as shown in the below screenshot.

Home
Views
Dashboards
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Search
nagiosadmin
Logout

Manage Users

User Added.

Add New User
Add users from LDAP/AD
Email All Users

Search...

Showing 1-2 of 2 total records

<input type="checkbox"/>	Username	Name	Email	Phone Number	Auth Level	Auth Type	Last Login	Actions
<input type="checkbox"/>	nagiosadmin	Nagios Administrator	root@localhost	-	Admin	Local	2021-06-26 04:38:08	
<input type="checkbox"/>	testuser01	Bhaskar	bhaskar.rajput0704@gmail.com	-	User	Local	-	

Page 1 of 1
5 Per Page
Go

With Selected:

8. To validate, **LOGOUT** from **ADMINISTRATOR** account and **LOGIN** back as **testuser01**.

Nagios XI

Login

Login

You have logged out.

testuser01

.....|

Login

[Forgot your password?](#)

Select Language:

Nagios Products

XI

F

LS

NA

Nagios Log Server

Nagios Log Server greatly simplifies the process of searching your log data. Set up alerts to notify you when potential threats arise, or simply query your log data to quickly audit any system. With Nagios Log Server, you get all of your log data in one location, with high availability and fail-over built right in. Quickly configure your servers to send all log data with easy source setup wizards and start monitoring your logs in minutes.

9. **Accept the License Agreement** as shown below in the screenshot.

Nagios XI

HomeViewsDashboardsReportsToolsHelp

Notice: This trial copy of Nagios XI will expire in 30 days. [Purchase a License Now](#) or [Enter your license key](#).

License Agreement

You must agree to the Nagios Software License Terms and Conditions before continuing using this software.

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1.2 Third Party Software. Any software programs, configurations, scripts, images, and intellectual property contained in or distributed with Nagios Enterprises' products, with the exclusion of Nagios Software, made available in source code, object code form, or other

☒ I have read, understood, and agree to be bound by the terms of the license above.

Submit

10. Now provide **new password** details and click on **CHANGE PASSWORD**.

Nagios XI

HomeViewsDashboardsReportsToolsHelp

Notice: This trial copy of Nagios XI will expire in 30 days. [Purchase a License Now](#) or [Enter your license key](#).

1stuser01Logout

Password Change Required

You are required to change your password before proceeding.

Current Password:*****

New Password:*****

Repeat New Password:*****

Change Password

11. After **testuser01** password changed successfully. User is now **logged in successfully** on **NAGIOSXI** application.

The screenshot shows the Nagios XI Home Dashboard. The top navigation bar includes links for Home, Views, Dashboards, Reports, Tools, and Help. A notice at the top states: "Notice: This trial copy of Nagios XI will expire in 30 days. Purchase a License Now or Enter your license key." The left sidebar contains a "Quick View" section with links like Home Dashboard, Tactical Overview, Birdseye, Operations Center, and Open Service Problems. Below this is a "Details" section with links for Service Status, Host Status, Hostgroup Summary, Hostgroup Overview, Hostgroup Grid, Servicegroup Summary, Servicegroup Overview, Servicegroup Grid, BPI, Metrics, and Graphs. The main content area is titled "Home Dashboard" and features several widgets: "Getting Started Guide" with common tasks and getting started links; "Host Status Summary" table; "Service Status Summary" table; a "We're Here To Help!" section with support links and a photo of a tech; and a "Demos and Webinars" section.

Up	Down	Unreachable	Pending
1	0	0	0
Unhandled		Problems	
0		1	

Last Updated: 2021-06-26 05:30:03

Ok	Warning	Unknown	Critical	Pending
1	0	0	0	0
Unhandled		Problems		All
1		1		12

Last Updated: 2021-06-26 05:30:03

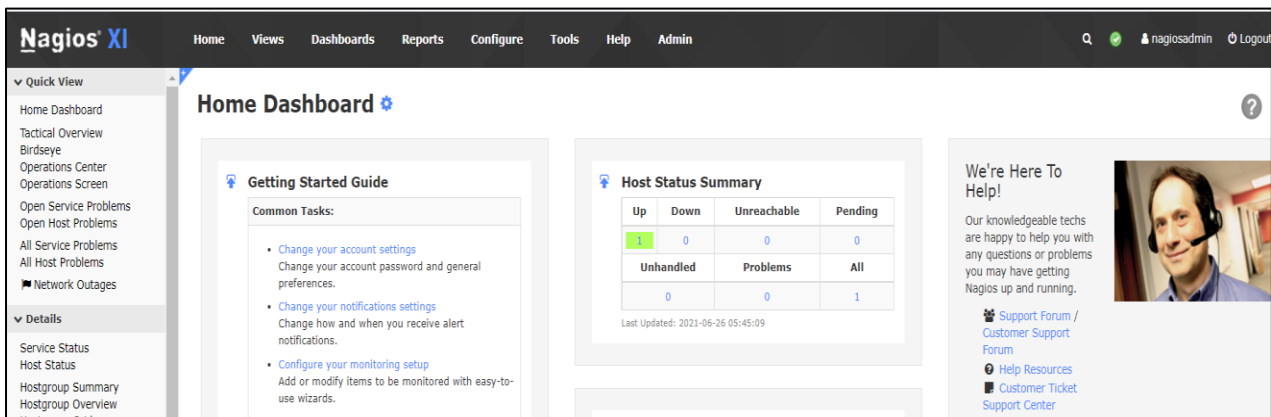
Part 2 - Adding servers in Nagios to be monitored.

1. Login back to **NAGIOSXI** application as an **ADMINISTRATOR**.

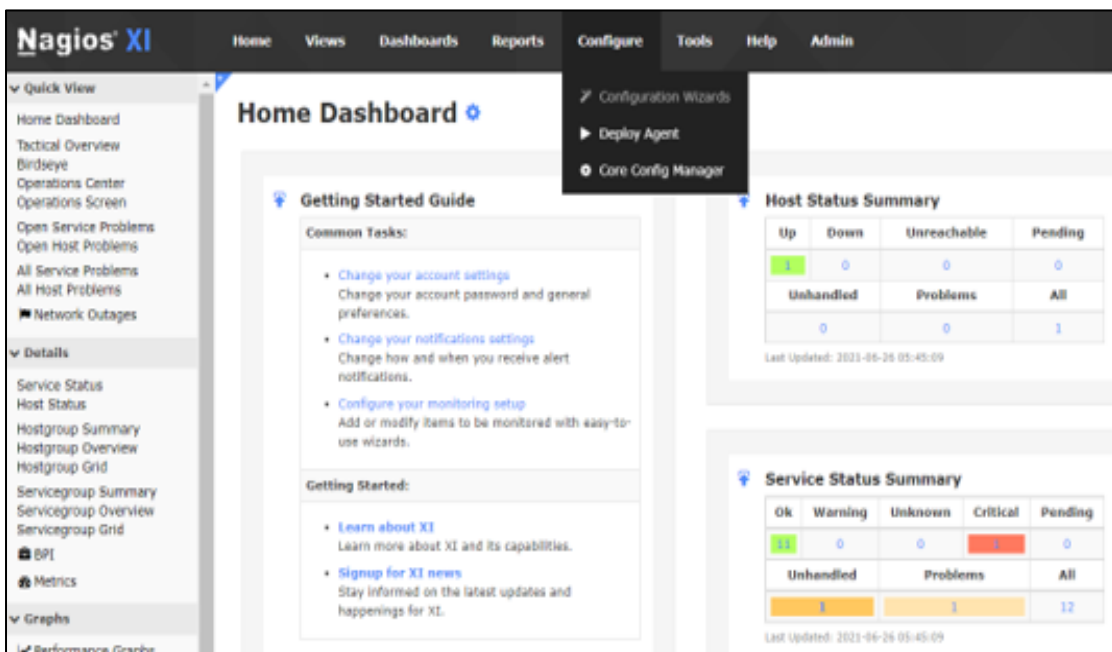
The screenshot shows the Nagios XI Login page. The top navigation bar includes the Nagios XI logo and a "Login" link. The main content area is titled "Login" and features a "You have logged out." message. Below this is a login form with fields for "nagiosadmin" and a password (represented by dots). A "Login" button is present, along with a "Forgot your password?" link. At the bottom, there is a "Select Language:" section with a grid of flags representing various languages.

Select Language:

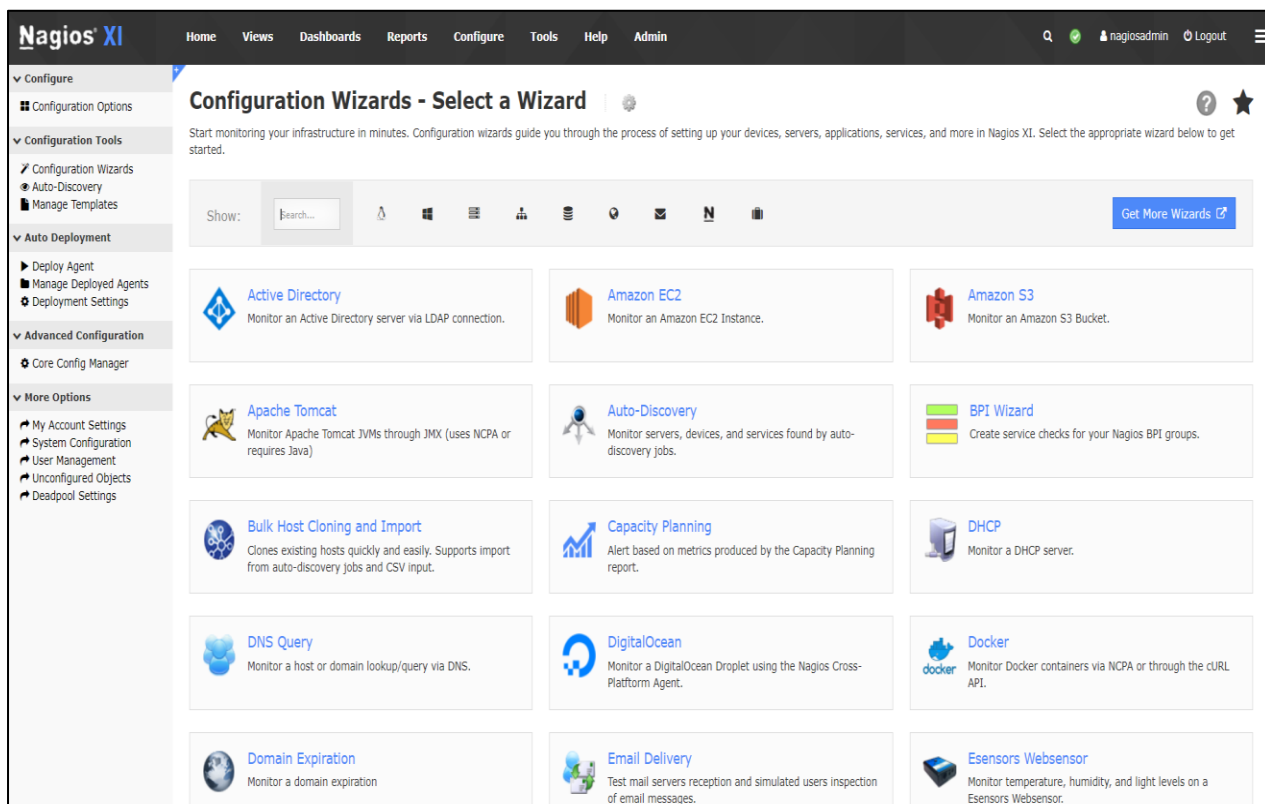
2. Now select **CONFIGURE** from main menu.



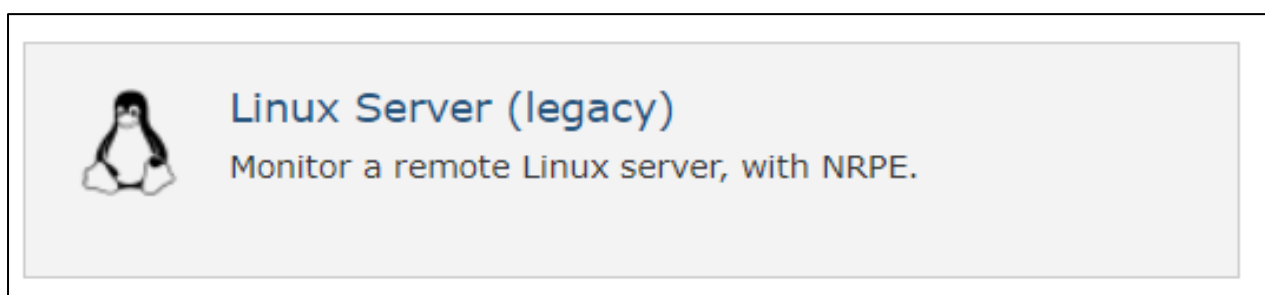
3. Further select **CONFIGURATION WIZARD** as shown in the below screenshot.



4. You can see the different kind of **servers** and **applications** that can be integrated for monitoring in **NAGIOSXI**.

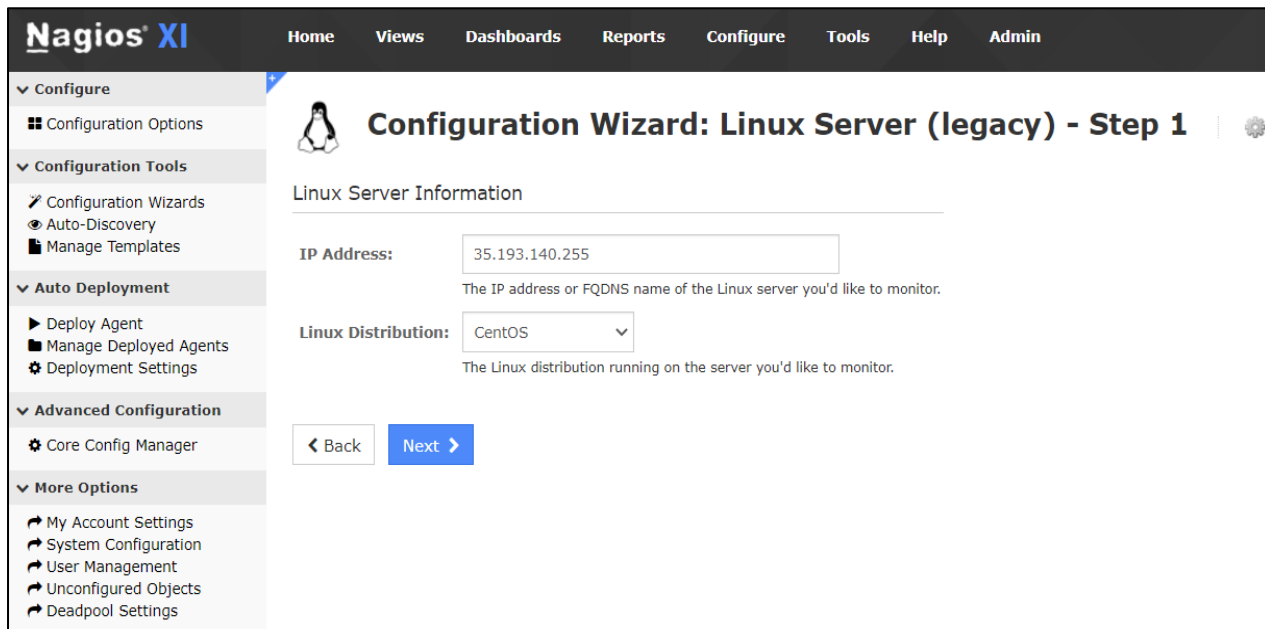


5. Create new **UBUNTU/CENTOS** machine on **VIRTULABOX** or **AWS** platform. You need to monitor the newly created **UBUNTU/CENTOS** machine. So, scroll down and select **LINUX SERVER (legacy)** as shown in the below screenshot.



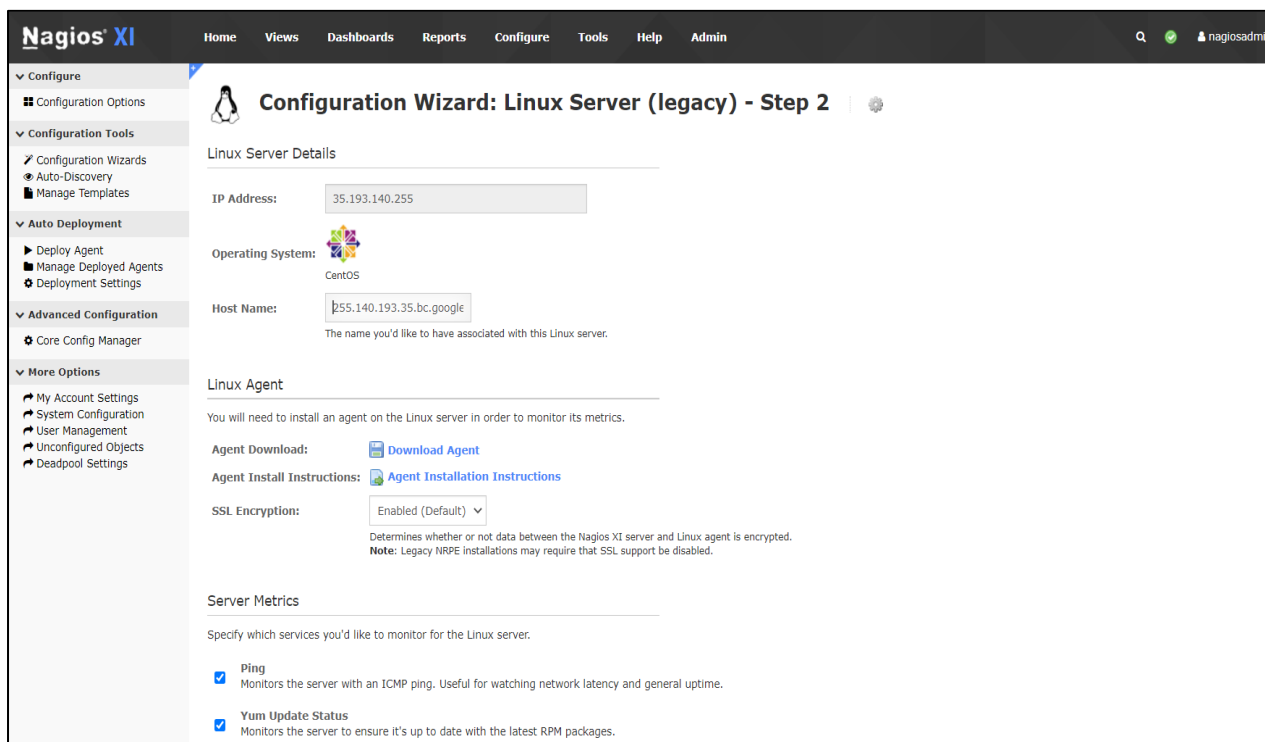
6. Paste the **IP Address** of newly created machine (**UBUNTU/CENTOS**) that is required to be monitored on **NAGIOSXI** . Now select **CENTOS** under **LINUX Distribution** as shown in the below screenshot. Now click on **NEXT** button.

NOTE – In my case I have created CENTOS machine so I have choose CENTOS under LINUX DISTRIBUTION but if you creating UBUNTU machine then you have to choose UBUNTU under LINUX DISTRIBUTION.



The screenshot shows the Nagios XI Configuration Wizard for a Linux Server (legacy) at Step 1. The interface includes a top navigation bar with links like Home, Views, Dashboards, Reports, Configure, Tools, Help, and Admin. A left sidebar lists various configuration options. The main content area is titled 'Configuration Wizard: Linux Server (legacy) - Step 1' and contains a 'Linux Server Information' section. This section has two input fields: 'IP Address' with the value '35.193.140.255' and 'Linux Distribution' with a dropdown menu set to 'CentOS'. Below these fields are 'Back' and 'Next' buttons.

7. Now you can see **server configuration**. Leave all options as default and scroll down.



The screenshot shows the Nagios XI Configuration Wizard for a Linux Server (legacy) at Step 2. The interface is similar to Step 1, but the main content area is titled 'Configuration Wizard: Linux Server (legacy) - Step 2' and contains a 'Linux Server Details' section. This section has three input fields: 'IP Address' with the value '35.193.140.255', 'Operating System' with a dropdown menu set to 'CentOS', and 'Host Name' with the value '35.193.140.255.bc.google'. Below these fields is a 'Linux Agent' section with a 'Download Agent' button, 'Agent Install Instructions' link, and 'SSL Encryption' dropdown menu set to 'Enabled (Default)'. At the bottom, there is a 'Server Metrics' section with two checked options: 'Ping' and 'Yum Update Status'.

8. Select the below mentioned services under SERVICES section of Configuration Wizard.

Nagios XI

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▼ **Configure**

■ Configuration Options

▼ **Configuration Tools**

✎ Configuration Wizards

🔍 Auto-Discovery

📁 Manage Templates

▼ **Auto Deployment**

▶ Deploy Agent

📁 Manage Deployed Agents

⚙️ Deployment Settings

▼ **Advanced Configuration**

⚙️ Core Config Manager

▼ **More Options**

➡ My Account Settings

➡ System Configuration

➡ User Management

➡ Unconfigured Objects

➡ Deadpool Settings

Services

Specify any services normally started by the init process that should be monitored to ensure they're in a running state.

init.d Service	Display Name
<input checked="" type="checkbox"/> sshd	SSH Server
<input checked="" type="checkbox"/> crond	Cron Scheduling Daemon
<input type="checkbox"/> syslog	System Logging Daemon
<input checked="" type="checkbox"/> httpd	Apache Web Server
<input checked="" type="checkbox"/> mysqld	MySQL Server
<input type="checkbox"/> sendmail	Sendmail Mail Transfer Agent
<input type="checkbox"/> dovecot	Dovecot Mail Server

[Add Row](#) | [Delete Row](#)

9. Now click on NEXT to proceed further.

Nagios XI

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▼ **Configure**

■ Configuration Options

▼ **Configuration Tools**

✎ Configuration Wizards

🔍 Auto-Discovery

📁 Manage Templates

▼ **Auto Deployment**

▶ Deploy Agent

📁 Manage Deployed Agents

⚙️ Deployment Settings

▼ **Advanced Configuration**

⚙️ Core Config Manager

▼ **More Options**

➡ My Account Settings

➡ System Configuration

➡ User Management

➡ Unconfigured Objects

➡ Deadpool Settings

☐ syslog

System Logging Daemon

☒ httpd

Apache Web Server

☒ mysqld

MySQL Server

☐ sendmail

Sendmail Mail Transfer Agent

☐ dovecot

Dovecot Mail Server

[Add Row](#) | [Delete Row](#)

Processes

Specify any process names that should be monitored to ensure they're running.

Linux Process	Display Name
<input type="checkbox"/> sendmail	Sendmail
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

[Add Row](#) | [Delete Row](#)

[< Back](#)

[Next >](#)

10. Now click on **FINISH** button to add the **HOST/SERVER** for monitoring as shown in the below screenshot.

Nagios XI Home Views Dashboards Reports Configure Tools Help Admin

Configuration Wizard: Linux Server (legacy) - Step 3

Monitoring Settings

Define basic parameters that determine how the host and service(s) should be monitored.

Under normal circumstances:

Monitor the host and service(s) every minutes.

When a potential problem is first detected:

Re-check the host and service(s) every minutes up to times before [sending a notification](#).

[< Back](#) [Next >](#) [✓ Finish](#)

11. Configuration applied successfully for server. Now click on **VIEW STATUS DETAILS** under **Other options**.

Nagios XI Home Views Dashboards Reports Configure Tools Help Admin

Linux Server (legacy) Monitoring Wizard

✓ Configuration applied successfully.

Your configuration changes have been successfully applied and the monitoring engine was restarted.


Configuration Request Successful

[↺ Run this monitoring wizard again](#) [⌂ Run another monitoring wizard](#)

Other Options:

- [View status details for 255.140.193.35.bc.googleusercontent.com](#)
- [View the latest configuration snapshots](#)

12. Now you can see **NAGIOSXI** started monitoring **HOST/SERVER**.

Service Status  Host: 255.140.193.35.bc.googleusercontent.com

Host Status Summary

Up	Down	Unreachable	Pending
1	0	0	0
Unhandled	Problems	All	
0	0	1	

Last Updated: 2021-06-26 06:27:23

Service Status Summary

Ok	Warning	Unknown	Critical	Pending
0	0	0	0	14
Unhandled		Problems		All
0		0		14

Last Updated: 2021-06-26 06:27:23

Showing 1-14 of 14 total records


Page 1 of 1 15 Per Page Go Search...

Host	Service	Status	Duration	Attempt	Last Check	Status Information
255.140.193.35.bc.googleusercontent.com	/ Disk Usage	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 11:57:00
	Apache Web Server	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 11:57:29
	CPU Stats	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 11:57:47
	Cron Scheduling Daemon	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 11:58:09
	Load	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 11:58:32
	Memory Usage	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 11:58:55
	MySQL Server	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 11:59:18
	Open Files	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 11:59:41
	Ping	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 12:00:04
	SSH Server	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 12:00:27
	Swap Usage	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 12:00:50
	Total Processes	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 12:01:13
	Users	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 12:01:37
	Yum Updates	Pending	18804d 0h 57m 23s	1/5	1970-01-01 05:30:00	Service check is pending... Check is scheduled for 2021-06-26 11:57:11

Last Updated: 2021-06-26 06:27:23

Page 1 of 1 15 Per Page Go

13. After few minutes you can see the status of each **PARAMETER** changes accordingly as shown in the below screenshot.

Service Status  Host: 255.140.193.35.bc.googleusercontent.com

Host Status Summary

Up	Down	Unreachable	Pending
1	0	0	0
Unhandled	Problems	All	
0	0	1	

Last Updated: 2021-06-26 06:44:49

Service Status Summary

Ok	Warning	Unknown	Critical	Pending
1	0	0	13	0
Unhandled		Problems		All
13		13		14

Last Updated: 2021-06-26 06:44:49

Showing 1-14 of 14 total records

Page 1 of 1 15 Per Page Go Search...

Host	Service	Status	Duration	Attempt	Last Check	Status Information
255.140.193.35.bc.googleusercontent.com	/ Disk Usage	Critical	0s	5/5	2021-06-26 12:13:17	CHECK_NRPE STATE CRITICAL: Socket timeout after 30 seconds.
	Apache Web Server	Critical	-37s	5/5	2021-06-26 12:13:56	CHECK_NRPE STATE CRITICAL: Socket timeout after 30 seconds.
	CPU Stats	Critical	-50s	5/5	2021-06-26 12:14:09	CHECK_NRPE STATE CRITICAL: Socket timeout after 30 seconds.
	Cron Scheduling Daemon	Critical	-21s	5/5	2021-06-26 12:09:40	CHECK_NRPE STATE CRITICAL: Socket timeout after 30 seconds.
	Load	Critical	-40s	5/5	2021-06-26 12:09:59	CHECK_NRPE STATE CRITICAL: Socket timeout after 30 seconds.
	Memory Usage	Critical	-50s	5/5	2021-06-26 12:10:12	CHECK_NRPE STATE CRITICAL: Socket timeout after 30 seconds.
	MySQL Server	Critical	-30s	5/5	2021-06-26 12:10:49	CHECK_NRPE STATE CRITICAL: Socket timeout after 30 seconds.
	Open Files	Critical	-37s	5/5	2021-06-26 12:10:56	CHECK_NRPE STATE CRITICAL: Socket timeout after 30 seconds.
	Ping	Ok	-5s	1/5	2021-06-26 12:09:53	OK - 35.193.140.255 rta 0.846ms lost 0%
	SSH Server	Critical	-34s	5/5	2021-06-26 12:11:49	CHECK_NRPE STATE CRITICAL: Socket timeout after 30 seconds.
	Swap Usage	Critical	-46s	5/5	2021-06-26 12:12:07	CHECK_NRPE STATE CRITICAL: Socket timeout after 30 seconds.
	Total Processes	Critical	-34s	5/5	2021-06-26 12:12:41	CHECK_NRPE STATE CRITICAL: Socket timeout after 30 seconds.
	Users	Critical	-53s	5/5	2021-06-26 12:13:08	CHECK_NRPE STATE CRITICAL: Socket timeout after 30 seconds.
	Yum Updates	Critical	-20s	5/5	2021-06-26 12:13:39	CHECK_NRPE STATE CRITICAL: Socket timeout after 30 seconds.

Last Updated: 2021-06-26 06:44:49

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