

How To Set Up Nagios XI AMI In The Amazon EC2 Cloud

Purpose

This document describes how to launch a newly installed Nagios XI server in the Amazon EC2 cloud. Enabling users to quickly run a trial of Nagios XI without using physical hardware, migrating existing physical installations to a cloud infrastructure, and/or scale existing XI monitoring environments.

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Prerequisites

Before you begin, this document assumes the user has an [Amazon Web Services \(AWS\)](#) account. If you don't, one can be created at <http://aws.amazon.com>.

Note: The end user is responsible for all billing that results from using Amazon Web Services.

Setting Up The Nagios XI AMI

For your convenience, Nagios publishes AMIs (Amazon Machine Images) setup to install the latest version of Nagios XI, once instantiated and started.

1. Login to the [Amazon Web Services \(AWS\) management](#) console.
2. The region can be changed in the drop down on the right-hand side of the top menu bar, next to the account name. Make sure to use a region appropriate for the AWS account, to avoid extra charges.

Table 1: AWS Regions with Nagios XI AMIs

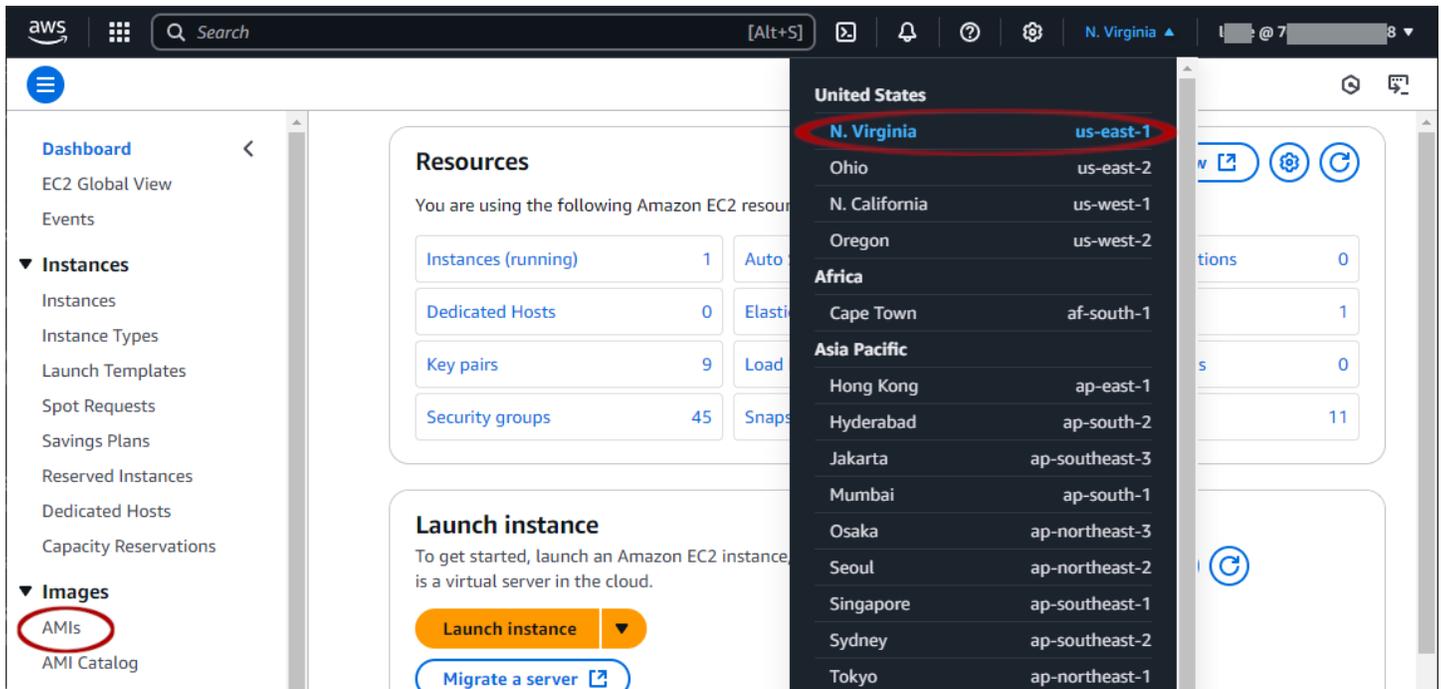
Region Name	Region Code
Africa (Cape Town)	af-south-1
Asia Pacific (Hong Kong)	ap-east-1
Asia Pacific (Hyderabad)	ap-south-2
Asia Pacific (Jakarta)	ap-southeast-3
Asia Pacific (Mumbai)	ap-south-1

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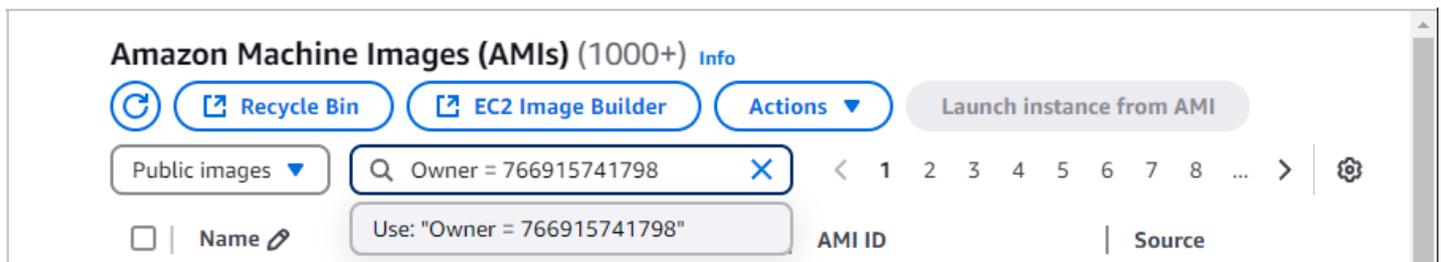
Region Name	Region Code
Asia Pacific (Osaka)	ap-northeast-3
Asia Pacific (Seoul)	ap-northeast-2
Asia Pacific (Singapore)	ap-southeast-1
Asia Pacific (Sydney)	ap-southeast-2
Asia Pacific (Tokyo)	ap-northeast-1
Canada (Central)	ca-central-1
EU (Frankfurt)	eu-central-1
EU (Ireland)	eu-west-1
EU (London)	eu-west-2
EU (Milan)	eu-south-1
EU (Paris)	eu-west-3
EU (Spain)	eu-south-2
EU (Stockholm)	eu-north-1
EU (Zurich)	eu-central-2
Middle East (Bahrain)	me-south-1
Middle East (UAE)	me-central-1
South America (Sao Paulo)	sa-east-1
US East (N. Virginia)	us-east-1
US East (Ohio)	us-east-2
US West (N. California)	us-west-1
US West (Oregon)	us-west-2

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3. Use the left-hand menu, navigate to **Images > AMIs**.

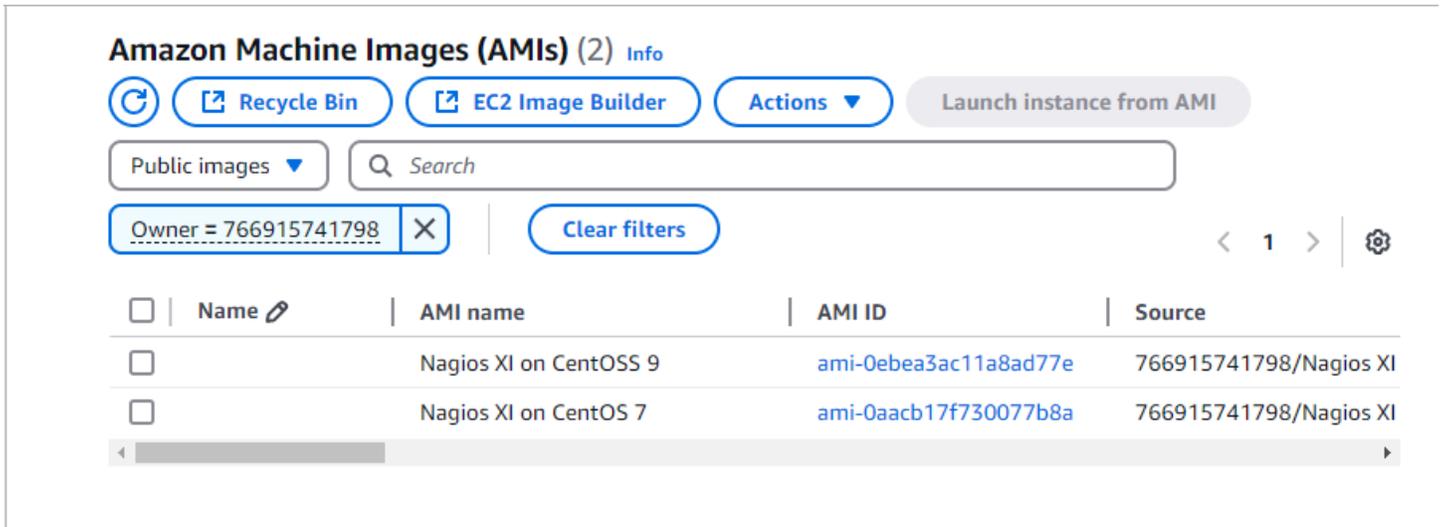


4. In the **Amazon Machine Images (AMIs)** section of the page, set the filter to: **Public images**.
5. In the search bar enter: **Owner = 766915741798**. This is the official ID for the Nagios Tech Team.
6. Use the **enter/return** key, to start the search.



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7. The available Nagios XI AMIs will be listed in the search results.

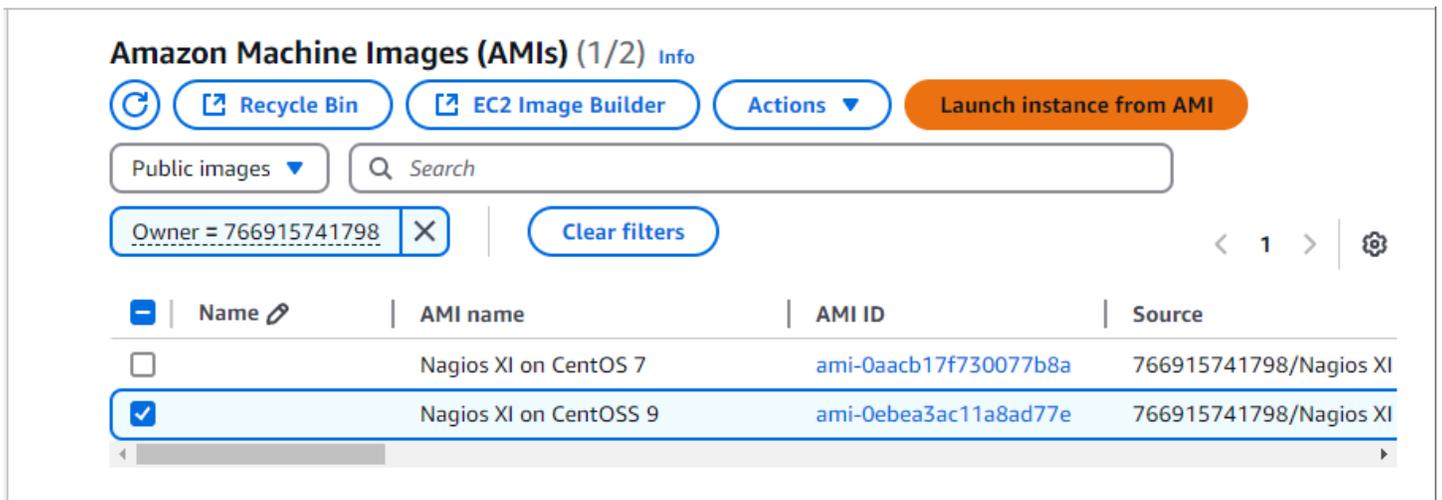


The screenshot shows the Amazon Machine Images (AMIs) console. At the top, it says "Amazon Machine Images (AMIs) (2) Info". Below this are several buttons: "Recycle Bin", "EC2 Image Builder", "Actions", and "Launch instance from AMI". There is a search bar with "Public images" selected and a search filter "Owner = 766915741798". A table lists two AMIs:

<input type="checkbox"/>	Name	AMI name	AMI ID	Source
<input type="checkbox"/>		Nagios XI on CentOSS 9	ami-0ebea3ac11a8ad77e	766915741798/Nagios XI
<input type="checkbox"/>		Nagios XI on CentOS 7	ami-0aacb17f730077b8a	766915741798/Nagios XI

If the search results are empty, double check the region is supported by Nagios XI.

8. Check the box for the desired image.
9. Click the **Launch instance from AMI** button.

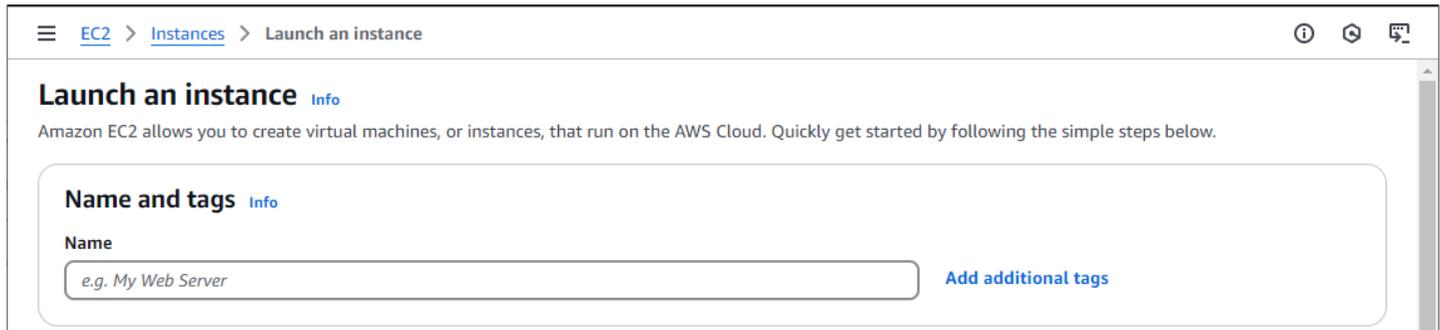


The screenshot shows the Amazon Machine Images (AMIs) console. At the top, it says "Amazon Machine Images (AMIs) (1/2) Info". Below this are several buttons: "Recycle Bin", "EC2 Image Builder", "Actions", and "Launch instance from AMI". There is a search bar with "Public images" selected and a search filter "Owner = 766915741798". A table lists two AMIs:

<input checked="" type="checkbox"/>	Name	AMI name	AMI ID	Source
<input type="checkbox"/>		Nagios XI on CentOS 7	ami-0aacb17f730077b8a	766915741798/Nagios XI
<input checked="" type="checkbox"/>		Nagios XI on CentOSS 9	ami-0ebea3ac11a8ad77e	766915741798/Nagios XI

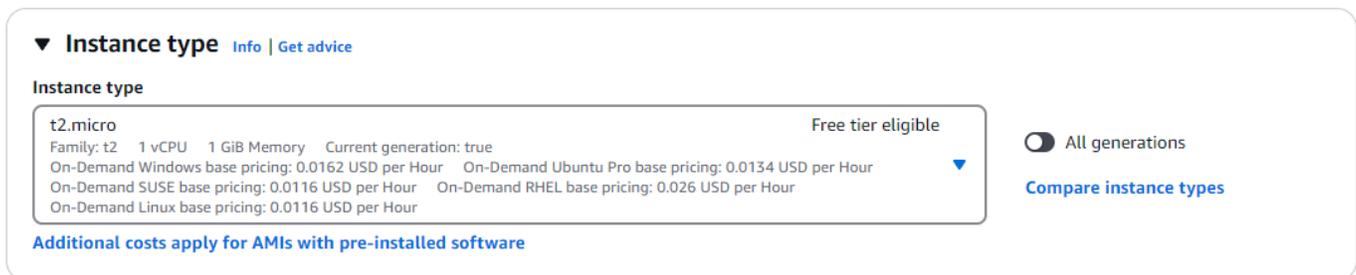
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10. In the **Name and tags** section, set the name for the virtual machine. This can also be set or changed later.



The screenshot shows the 'Launch an instance' page in the AWS Management Console. The breadcrumb navigation is 'EC2 > Instances > Launch an instance'. The main heading is 'Launch an instance' with an 'Info' link. Below the heading is a brief introduction: 'Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.' The 'Name and tags' section is expanded, showing a text input field with the placeholder 'e.g. My Web Server' and an 'Add additional tags' button.

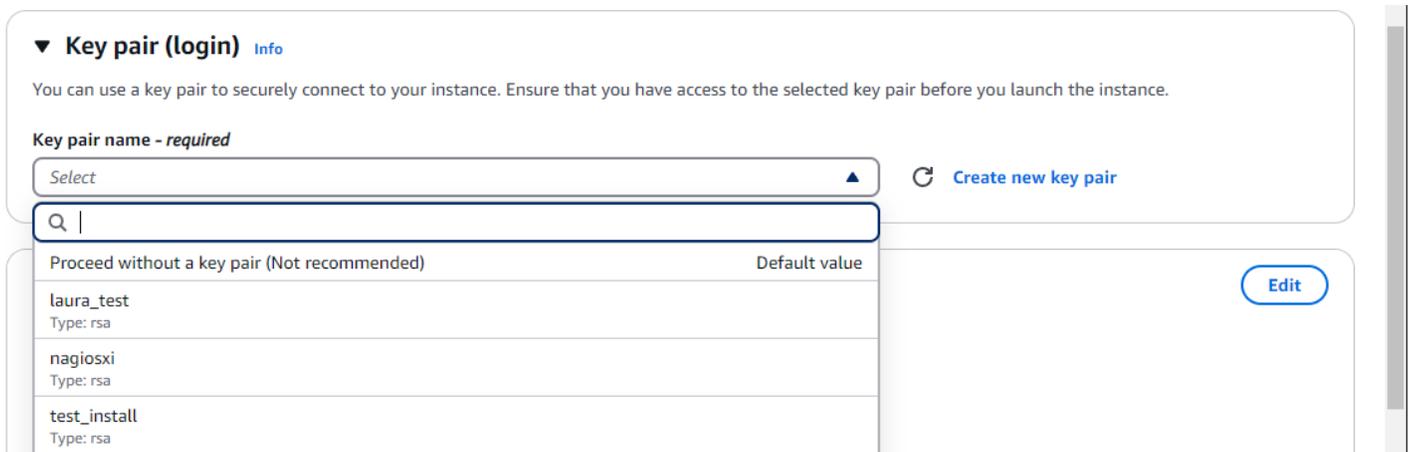
11. In the **Instance type** section, select the type/size of instance to create. This controls the allocated resources for the virtual machine. The minimum recommended resources for Nagios XI are **1 core** and **2GB RAM**.



The screenshot shows the 'Instance type' section in the AWS Management Console. The section is titled 'Instance type' with 'Info' and 'Get advice' links. Below the title is a dropdown menu showing 't2.micro' as the selected instance type. To the right of the dropdown is a 'Free tier eligible' label. Below the dropdown are several pricing options: 'On-Demand Windows base pricing: 0.0162 USD per Hour', 'On-Demand Ubuntu Pro base pricing: 0.0134 USD per Hour', 'On-Demand SUSE base pricing: 0.0116 USD per Hour', and 'On-Demand RHEL base pricing: 0.026 USD per Hour'. To the right of these options is a radio button labeled 'All generations' and a 'Compare instance types' button. Below the pricing options is a note: 'Additional costs apply for AMIs with pre-installed software'.

12. In the **Key pair** section, use an existing key pair, or create a new key pair.

Note: When creating a key pair for the first time, make sure to download the key when prompted. The key will be required to SSH into the new virtual machine.



The screenshot shows the 'Key pair (login)' section in the AWS Management Console. The section is titled 'Key pair (login)' with an 'Info' link. Below the title is a note: 'You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.' Below the note is a dropdown menu for 'Key pair name - required' with a 'Select' button. To the right of the dropdown is a 'Create new key pair' button. Below the dropdown is a search bar with a magnifying glass icon. Below the search bar is a table of existing key pairs. The table has two columns: 'Key pair name' and 'Type'. The rows are: 'Proceed without a key pair (Not recommended)' with 'Default value' and an 'Edit' button; 'laura_test' with 'Type: rsa'; 'nagiosxi' with 'Type: rsa'; and 'test_install' with 'Type: rsa'.

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13. In the **Network settings** section, select or configure a **security group**.

The **security group** should allow public access to port **22** and port **80**. Additional ports may be required for things like network flow data, etc.

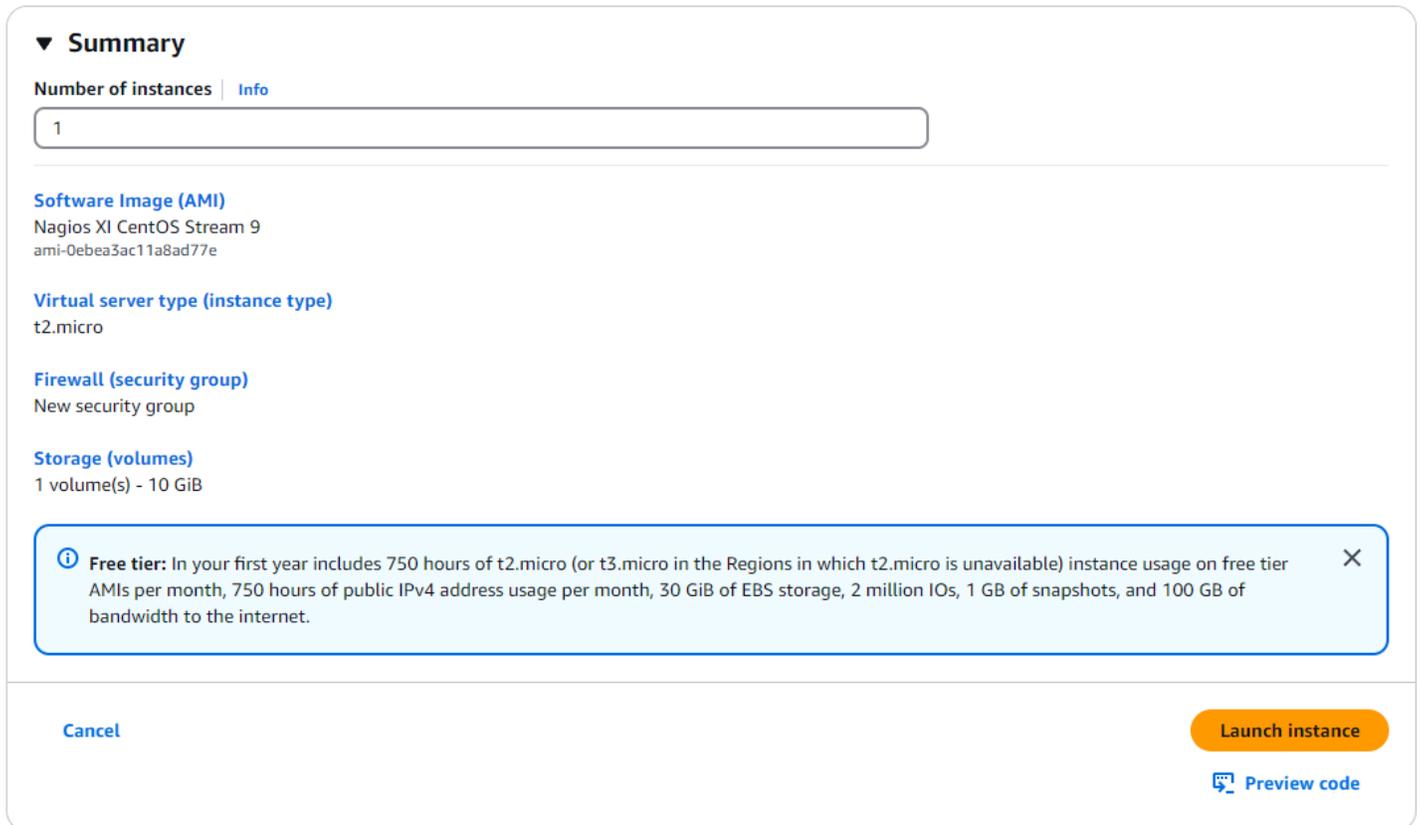
The screenshot shows the 'Network settings' section in the Amazon EC2 console. It includes fields for 'Network' (vpc-415a1724) and 'Subnet' (subnet-ef5518d5). The 'Auto-assign public IP' is set to 'Enable'. Under the 'Firewall (security groups)' section, the 'Create security group' option is selected. Below this, a list of rules is shown: 'Allow SSH traffic from' (checked) with source 'Anywhere' (0.0.0.0/0), 'Allow HTTPS traffic from the internet' (unchecked), and 'Allow HTTP traffic from the internet' (checked). A warning message at the bottom states: 'Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.'

Note: Root password login is disabled.

14. In the **Configure storage** section, review the storage size and adjust if necessary.

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15. Review the **Summary** and click **Launch instance**.



The screenshot shows the 'Summary' section of the Amazon EC2 console. It includes a 'Number of instances' input field set to '1'. Below this, there are sections for 'Software Image (AMI)' (Nagios XI CentOS Stream 9, ami-0ebea3ac11a8ad77e), 'Virtual server type (instance type)' (t2.micro), 'Firewall (security group)' (New security group), and 'Storage (volumes)' (1 volume(s) - 10 GiB). A blue information box at the bottom provides details about the 'Free tier' usage. At the bottom right, there are buttons for 'Cancel', 'Launch instance', and 'Preview code'.

▼ Summary

Number of instances | [Info](#)

1

Software Image (AMI)
Nagios XI CentOS Stream 9
ami-0ebea3ac11a8ad77e

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 10 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

[Cancel](#) [Launch instance](#) [Preview code](#)

16. Once the instance has been created, use the link provided to view the new instance.

Alternatively, navigate to the **Instances** dashboard using the left-hand menu **Instances** > **Instances**.



The screenshot shows the 'Instances' dashboard in the Amazon EC2 console. The breadcrumb navigation is 'EC2 > Instances > Launch an instance'. A green success notification bar at the top states 'Success Successfully initiated launch of instance (i-0716a3cc97e2b4831)'. Below the notification, there is a 'Launch log' link.

EC2 > Instances > Launch an instance

Success
Successfully initiated launch of instance ([i-0716a3cc97e2b4831](#))

▶ [Launch log](#)

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17. The Initial Instances Dashboard will only display the newly created virtual machine.

Note: The instance is **Running**, but is not ready, because it is **Initializing**.

The screenshot shows the Amazon EC2 console's 'Instances' page. At the top, it says 'Instances (1) Info' and 'Last updated less than a minute ago'. There are buttons for 'Connect', 'Instance state', 'Actions', and 'Launch instances'. A search bar contains 'Instance ID = i-0716a3cc97e2b4831'. Below the search bar, there is a table with the following columns: Name, Instance ID, Instance state, Instance type, and Status check. The table contains one row with the instance name 'Nagios XI Test', ID 'i-0716a3cc97e2b4831', state 'Running', type 't2.micro', and status check 'Initializing'.

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check
<input type="checkbox"/>		i-0716a3cc97e2b4831	Running	t2.micro	Initializing

Note: The first time the instance starts, the latest version of Nagios XI will be compiled and installed. This process will take **at least 15 minutes**, after which the instance will be available. The time will vary depending on the resource size allocated during setup.

18. **Reload** the **Instances** page if it does not update automatically.

The screenshot shows the Amazon EC2 console's 'Instances' page. At the top, it says 'Instances (1/1) Info' and 'Last updated 4 minutes ago'. There are buttons for 'Connect', 'Instance state', 'Actions', and 'Launch instances'. A search bar contains 'Instance ID = i-0716a3cc97e2b4831'. Below the search bar, there is a table with the following columns: Name, Instance ID, Instance state, Instance type, and Status check. The table contains one row with the instance name 'Nagios XI Test', ID 'i-0716a3cc97e2b4831', state 'Running', type 't2.micro', and status check '2/2 checks passed'.

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check
<input checked="" type="checkbox"/>	Nagios XI Test	i-0716a3cc97e2b4831	Running	t2.micro	2/2 checks passed

19. Once the checks have passed successfully, it is time to connect to Nagios XI.

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Connecting To Nagios XI

Once the instance is running, you can complete the installation of Nagios XI through the web interface. To access Nagios XI, type in the following URL and replace `<ipaddress>` with the IP address of the virtual machine:

```
http://<ipaddress>/nagiosxi
```

Note: You can find the Public DNS address by selecting the instance and viewing the details.

The screenshot displays the Amazon EC2 console interface. At the top, there's a header for 'Instances (1/1)' with a refresh icon and 'Last updated 28 minutes ago'. Below this are buttons for 'Connect', 'Instance state', 'Actions', and 'Launch instances'. A search bar contains the text 'Find Instance by attribute or tag (case-sensitive)'. A filter box shows 'Instance ID = i-0716a3cc97e2b4831'. Below the search bar is a table with columns: Name, Instance ID, Instance state, Instance type, and Status check. The table has one row: 'Nagios XI Test', 'i-0716a3cc97e2b4831', 'Running', 't2.micro', and '2/2 checks passed'. The 'Running' state and '2/2 checks passed' are circled in red. Below the table, the details for instance 'i-0716a3cc97e2b4831 (Nagios XI Test)' are shown. The 'Instance summary' section includes: Instance ID (i-0716a3cc97e2b4831), IPv6 address (-), Hostname type, Public IPv4 address (34.229.137.241), Private IPv4 addresses (172.30.4.195), Instance state (Running), and Public IPv4 DNS (ec2-34-229-137-241.compute-1.amazonaws.com). The Public IPv4 DNS is circled in red.

Name	Instance ID	Instance state	Instance type	Status check
Nagios XI Test	i-0716a3cc97e2b4831	Running	t2.micro	2/2 checks passed

i-0716a3cc97e2b4831 (Nagios XI Test)

Instance summary

Instance ID i-0716a3cc97e2b4831	Public IPv4 address 34.229.137.241 open address	Private IPv4 addresses 172.30.4.195
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-34-229-137-241.compute-1.amazonaws.com open address
Hostname type	Private IP DNS name (IPv4 only)	

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Once you access the login screen, you can log in as the Admin to begin using Nagios XI. The credentials are listed below.

XI Admin Account:

Username: nagiosadmin

Password: random (this gets initialized during setup)

MySQL Account:

Username: root

Password: nagiosxi

To connect to the virtual machine with SSH, use the private key downloaded during the setup. When connecting use the username `ec2-user`, NOT `root`. The `ec2-user` has full sudo access.

```
ssh -i .ssh/mykey.pem ec2-user@[AWS_public_DNS]
```

Notes About System Credentials And Security

We strongly advise changing the initial passwords immediately as they are not secure and are shipped as the default passwords like other Nagios XI virtual machines. We cannot help with recovering these credentials, so please keep track of the new credentials. Please refer to the following documentation:

[How-to-Change-Default-Passwords-in-Nagios-XI-2024](#)

If there are issues with the configuration, make sure that the Amazon EC2 includes security group information regarding Email. Outbound email may not work if the AMI does not have a valid DNS name, or the firewall rules do not allow outbound SMTP except through a proxy.

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Finishing Up

This completes the documentation on creating an Amazon EC2 instance of Nagios XI using an Amazon Machine Image (AMI). If you have additional questions or other support-related questions, please visit us at our Nagios Support Forum, Nagios Knowledge Base, or Nagios Library:

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