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.

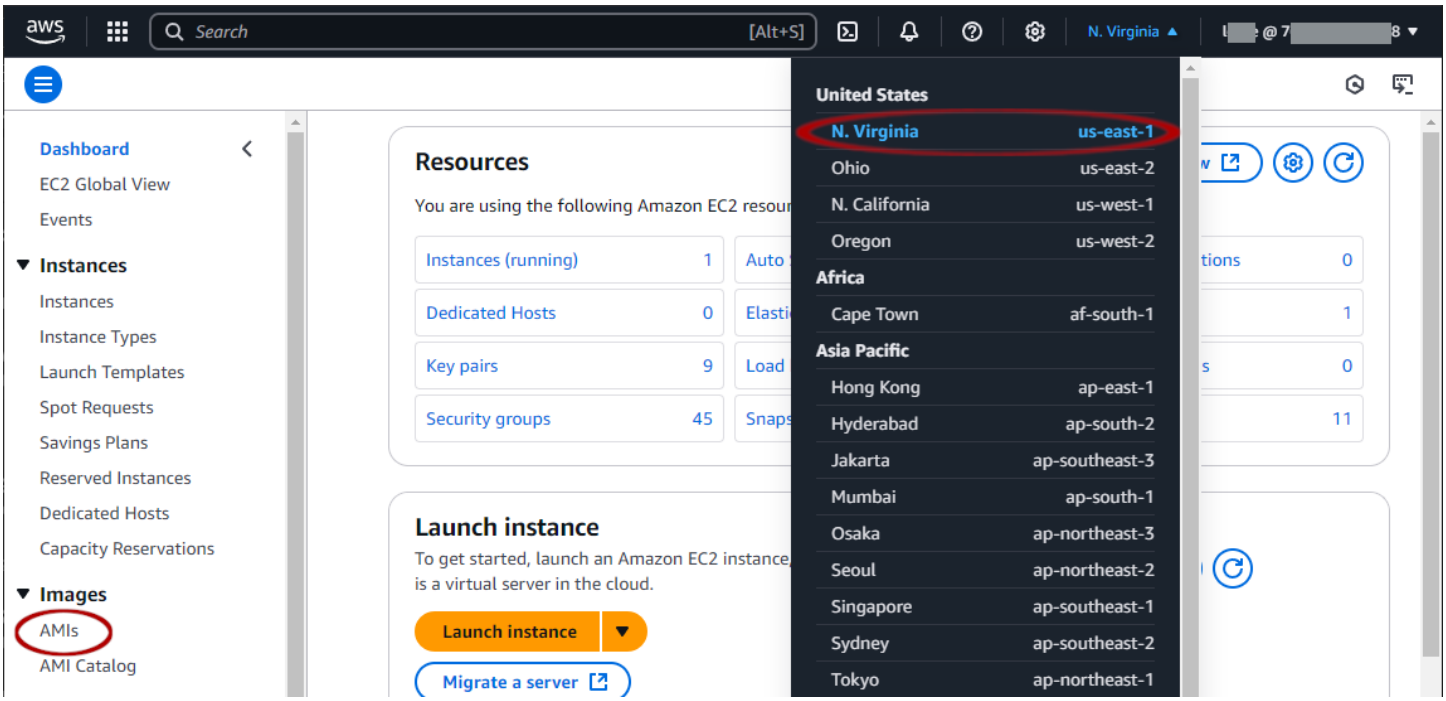
1. Login to the Amazon Web Services (AWS) management console.
2. The region can be changed in the drop down on the right-hand side of the top menu bar, next to the account name. Make sure to use a region appropriate for the AWS account, to avoid extra charges.

Table 1: AWS Regions with Nagios XI AMIs

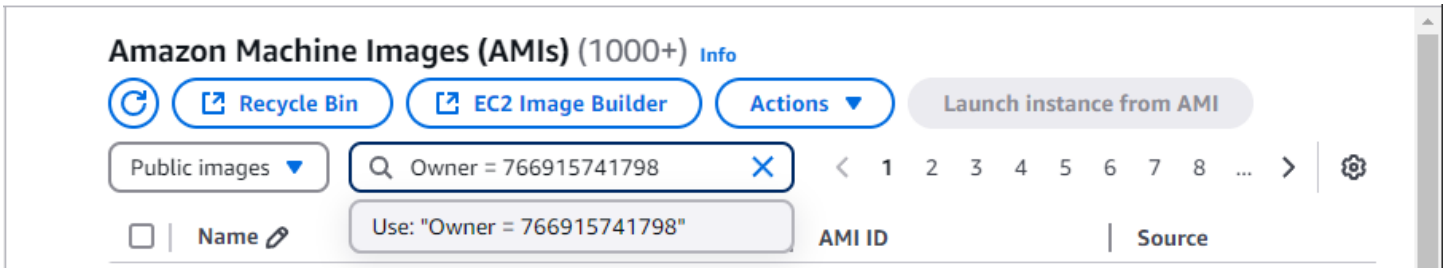
Region Name	Region Code
Africa (Cape Town)	af-south-1
Asia Pacific (Hong Kong)	ap-east-1
Asia Pacific (Hyderabad)	ap-south-2
Asia Pacific (Jakarta)	ap-southeast-3
Asia Pacific (Mumbai)	ap-south-1

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

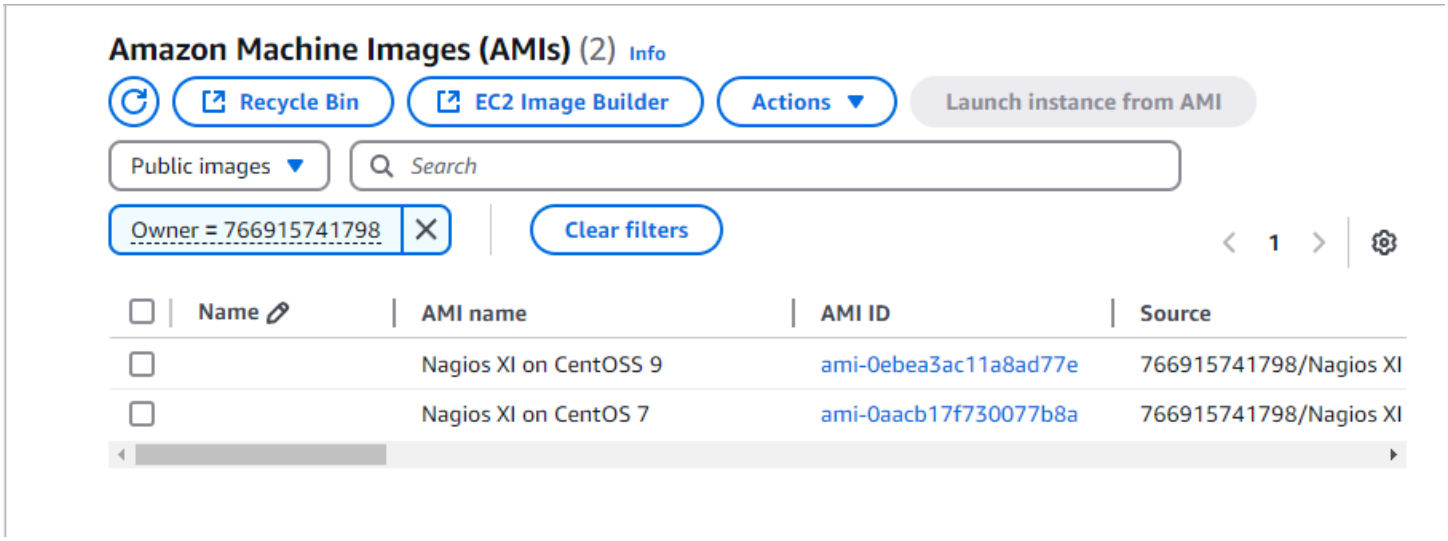
3. Use the left-hand menu, navigate to **Images > AMIs**.



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.

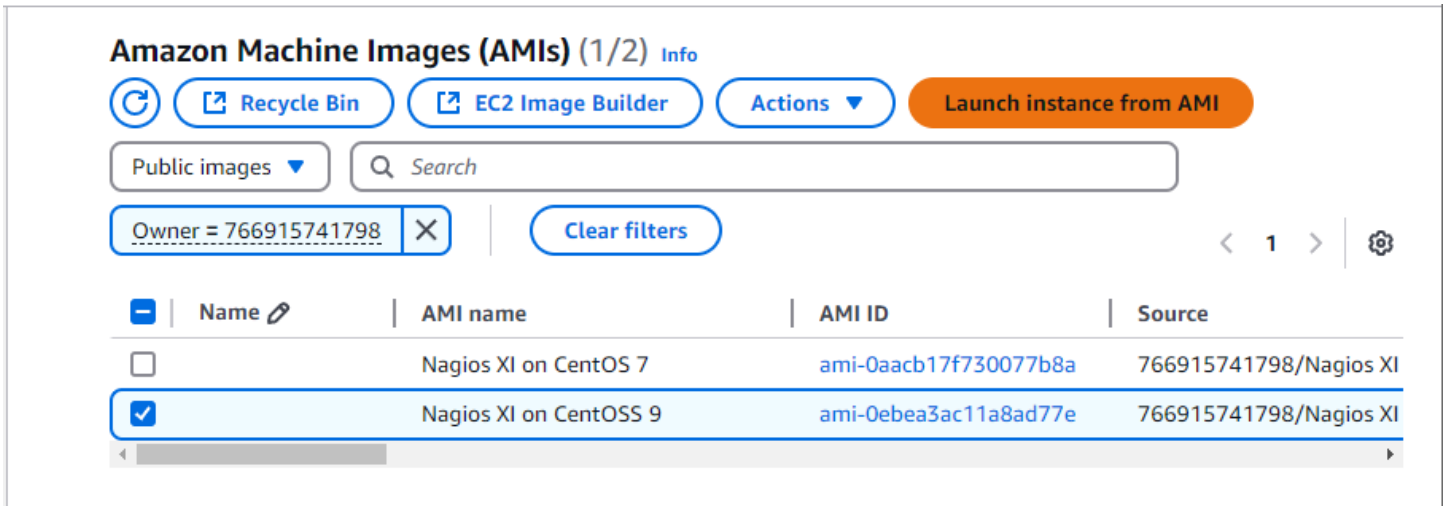


7. The available Nagios XI AMIs will be listed in the search results.

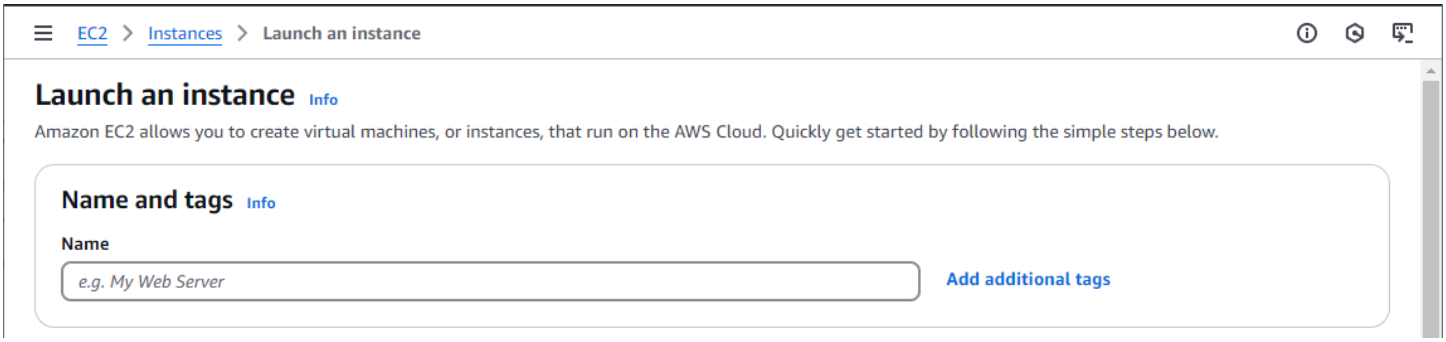


If the search results are empty, double check the region is supported by Nagios XI.

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



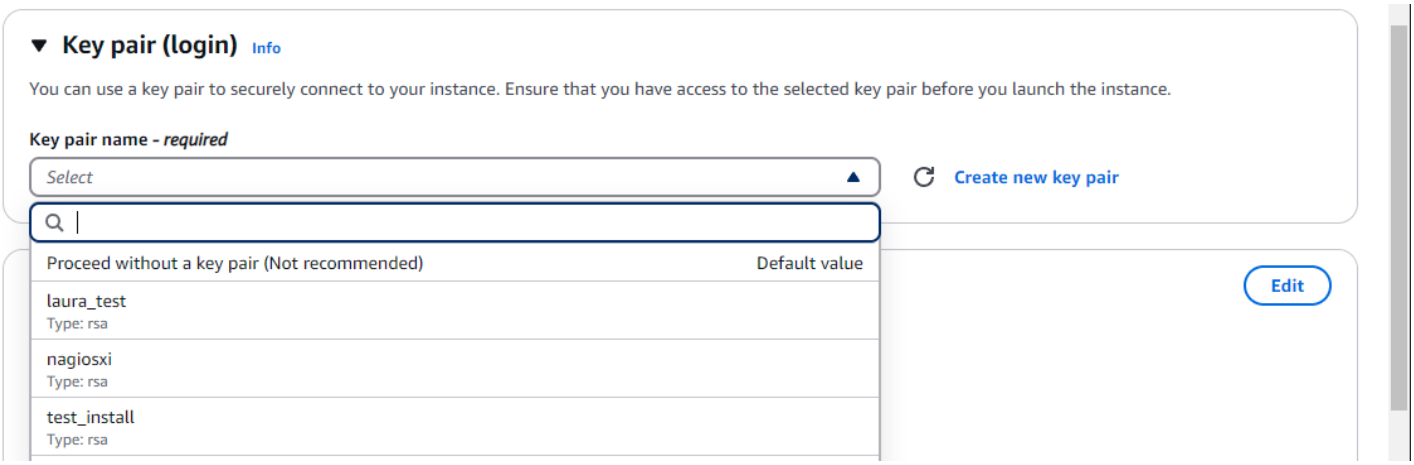
10. In the **Name and tags** section, set the name for the virtual machine. This can also be set or changed later.



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**.

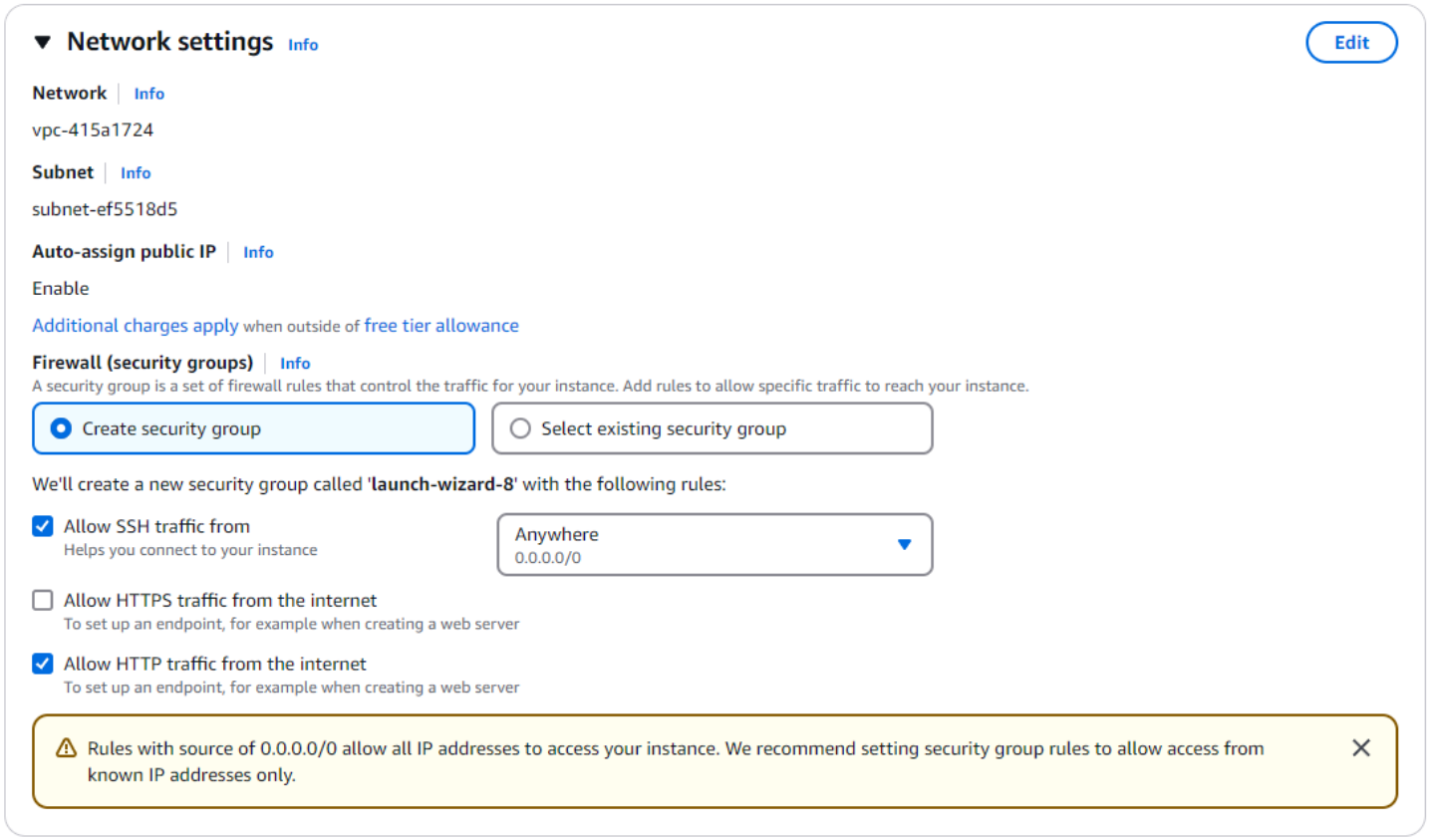
12. In the **Key pair** section, use an existing key pair, or create a new key pair.

    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.



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

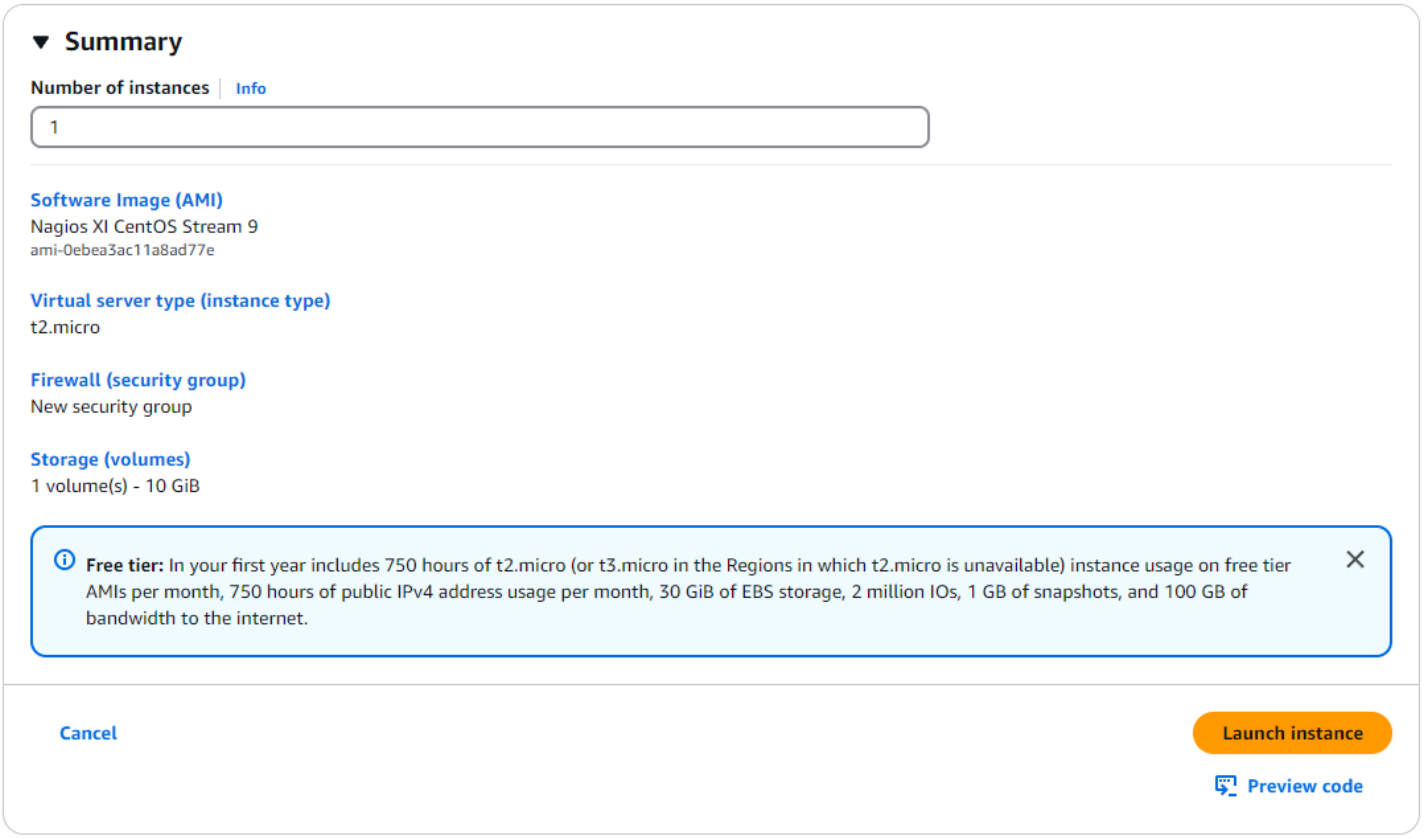
    The **security group** should allow public access to port **22** and port **80**. Additional ports may be required for things like network flow data, etc.



    Note: Root password login is disabled.

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

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

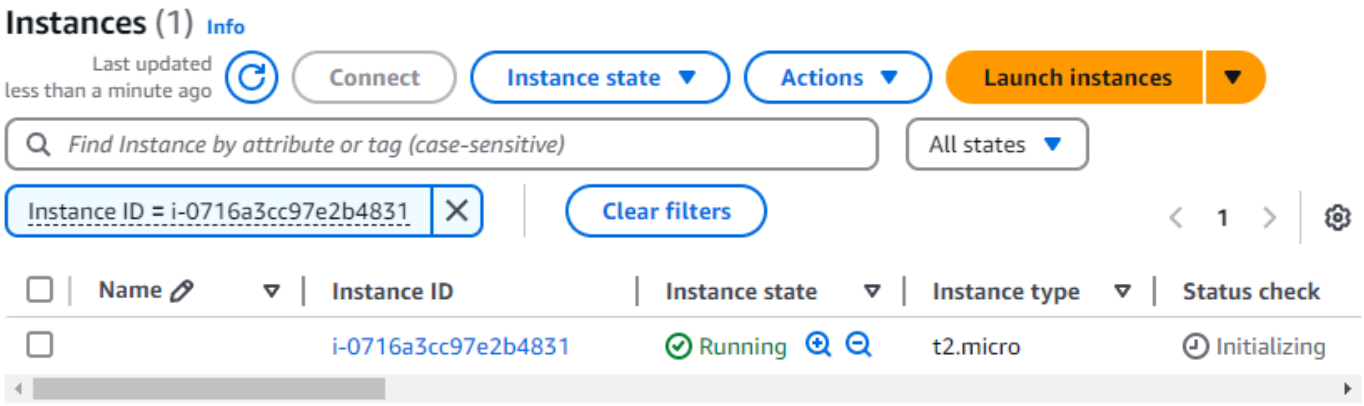


16. Once the instance has been created, use the link provided to view the new instance.

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

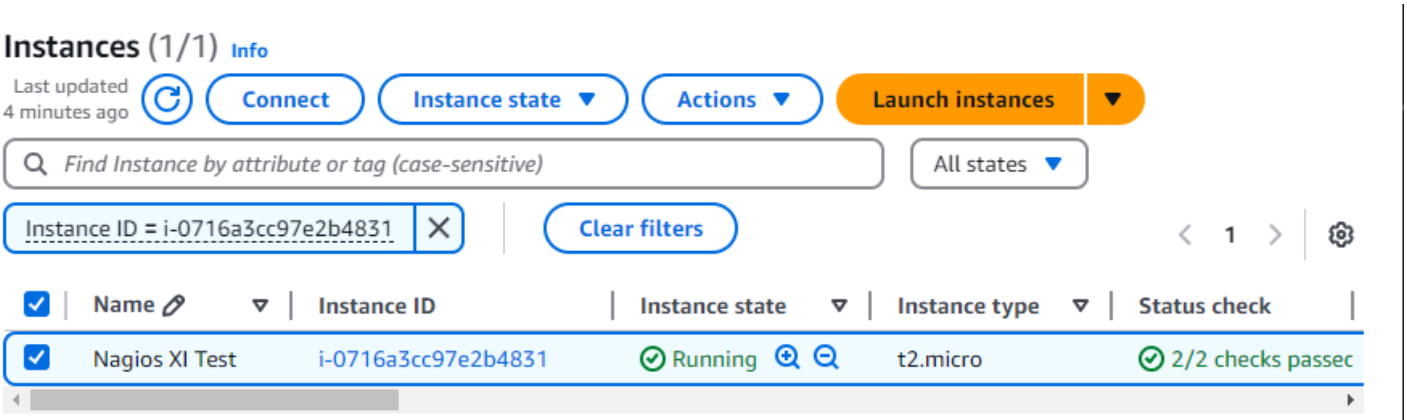
17. The Initial Instances Dashboard will only display the newly created virtual machine.

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



    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.



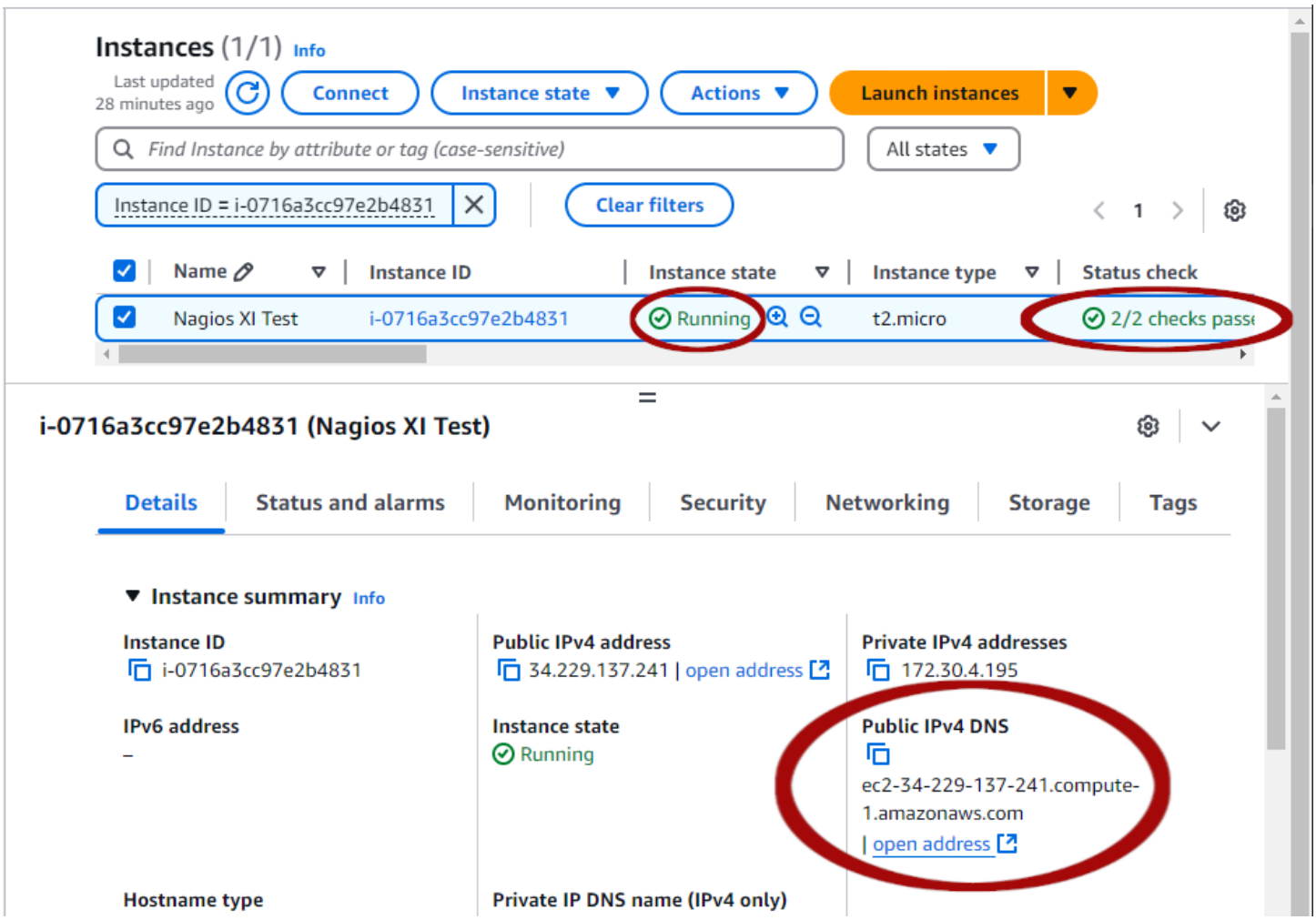
19. Once the checks have passed successfully, it is time to connect to Nagios XI.

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.



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.

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:

Visit Nagios Support Forum Visit Nagios Knowledge Base Visit Nagios Library