NetWitness[®] Platform Version 12.4.0.0

AWS Installation Marketplace Guide



Contact Information

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Getting Started with NetWitness Platform for AWS

Marketplace

This document describes how to get started with Netwitness Platform 12.4 using AMI from AWS Marketplace and configure it.

About NetWitness Platform for AWS Marketplace

NetWitness Platform delivers uncompromised threat detection, investigation, and response, across network, logs, and endpoint, whether deployed on-premises, in the cloud, or hybrid. The NetWitness Platform allows security analysts to prioritize, respond, reconstruct, survey, investigate and confirm information about threats in their environment and take the appropriate response, optimizing their security posture and protecting against the impacts of attacks.

Core platform modules include network detection and response (NDR), security information and event management (SIEM) and endpoint detection and response (EDR). Additional modules are available for UEBA, SOAR, and asset analytics to reduce the attack surface. NetWitness features market-leading SASE integrations (both packets and logs), and over 400 integrations with general-purpose and industry-specific security tools, with the ability to instantly parse new sources. NetWitness Platform is utilized continuously in the field by NetWitness Incident Response/Cyber Defense Services, where new detections and methods cycle back into product development.

Prerequisites

Ensure the following before you begin the installation:

- Access to the AWS console with the appropriate permissions to set up the network and launch an EC2 instance.
- Subscribe to Netwitness 12.4 Product from Marketplace

Deploy NetWitness Platform from AWS Marketplace

Deployment Overview

The following diagrams show the recommended AWS network architectures for NetWitness deployment.

NetWitness Deployment without Internet Connectivity (Air-Gapped Environment)





NetWitness Deployment with Restricted Internet through Firewall Configuration

- 1. Set up the NetWitness platform on a dedicated VPC with VPC flow logs enabled to isolate any network issues is recommended. Create a VPC with one Public and Private subnet within the VPC. For more information, see Create a VPC.
- 2. Specify your own CIDR block for the subnets, which is a subset of the VPC CIDR block.
- 3. Create two subnets (public and private) and two route tables for NetWitness deployment without Internet connectivity (air-gapped environment).
 - Set up Public Subnet: Include the internet gateway in a custom route table. If a subnet is associated with this route table, its traffic will be routed to the internet, making it a public subnet.
 - Set up a Private Subnet: Create a custom route table. Keep the default route (same as main table route). The subnet associated to this route table will be the private subnet.

Create two private subnets and three route tables for NetWitness deployment with restricted internet. Additionally, a route table is needed for an additional subnet.

4. Create an internet gateway and attach it to the public subnet to enable communication with the internet.

- 5. Create a NAT gateway in a public subnet and attach it to the private subnet's route table to allow instances in private subnets to access the Internet.
- 6. Create two separate security groups is recommended one for the Bastion instance and another for the private instances as a security best practice.

IMPORTANT:

- If the preferred approach is to set up NetWitness in an air-gapped environment where NW servers have no internet connectivity, a firewall is not required, and all outbound ports can be closed. As a result, the NW Admin server cannot access **CMS.netwitness.com** and must manage content offline. For more information, see the diagram **NetWitness Deployment without Internet Connectivity (Air-Gapped Environment)**.

- To access the NetWitness repo package without a firewall configuration, you must open the outbound ports 80 and 443 in the private security group for the NetWitness instance. This will allow you to access the internet and download the NetWitness repo package. After downloading the package, ensure that you close all outbound ports.

- If customers want to provide internet access to specific domains or URLs in private instances, they can limit outbound traffic by using a firewall. This can be done by whitelisting the URLs in the firewall group and opening ports 80 and 443 in the outbound rules of a private security group. For more information, see the diagram **NetWitness Deployment with Restricted Internet through Firewall Configuration**.

- 7. Launch the Bastion instance, use the security group created for the Bastion instance in the previous step 6; it's important to allocate an Elastic IP address to ensure communication with the Internet.
- 8. launch the Bastion instance, generate a key pair and keep it safe. This key pair will be required to SSH into Bastion instance for troubleshooting purposes.
- 9. Subscribe to NetWitness Product from the AWS Marketplace service. For more information, see Subscribe to AWS NetWitness Marketplace Product.
- 10. Launch a private NetWitness instance using the NetWitness AMI from AWS Marketplace, within a private subnet and use the security group created in step 6. For more information, see <u>Deploy EC2</u> Instance from AWS Marketplace and Configure a Host.

Subscribe to AWS NetWitness Marketplace Product

This topic describes the steps required to subscribe to NetWitness through the AWS Marketplace.

To subscribe to NetWitness through the AWS Marketplace

- 1. Log in to the AWS Management Console.
- 2. Navigate to AWS Marketplace Subscriptions AWS Service and click Discover Products in the left panel.



3. Search for NetWitness product and select NetWitness Platform 12.4.

AWS Marketplace ×	AWS Marketplace > Discover products >	Search results	
Manage subscriptions	 Refine results 	Search AWS Marketplace products	
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liscover products	Categories		
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rivate Marketplace 🛂	DevOps (1)	netwitness (3 results) showing 1 - 3 Sort By: Relevance	
ettings	Professional Services (1)		
	▼ Delivery methods	KNETWITNESS NetWitness Platform	
	Amazon Machine Image (2)	By NetWitness 🔀 Ver 12.4.0.0	
	Professional Services (1)	NetWitness Platform delivers uncompromised threat detection, investigation, and response, across network,	
	Publisher	logs, and endpoint, whether deployed on-premises, in the cloud, or hybrid. The NetWitness Platform allows security analyses to prioritize respond reconstruct surger investigate and confirm	
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4. Click Continue to Subscribe in the upper right corner of the page.

aws marketplace	Q Search					Hello,	1.1
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	KNETWITNESS NetWitn By: NetWitnes NetWitness PI featuring thre > Show more Linux/Unix	Less Platform S Latest Version: 12.4.0.0 atform is a comprehensive threat detection at intelligence, advanced analytics, and de	n, investigation, and response platform rep investigation capabilities. Use cases	Continue to Subscribe Save to List			
	Overview	Pricing Usa	age Support	Reviews			
	Product Overview NetWitness Platform delivers uncomprom energy and the second second second second second eventses, in the cloud, or hybrid. The NetWitness Platform allows security a reconstruct, sarvey, investigate and confir environment and take the appropriate rep osture and protecting against the impact Double of the second second second second (1996) and the second second second second (1997) and the second second second second formation and sevent management (1986) (1991), additional modules are available for reduce the struck surface. NetWitness for the industry specific security clouds with the al NetWitness Platform is utilized contact, where r into product development. Response(Open Defense Services, where r into product development.	ised threat detection, investigation, idpoint, whether deployed on- nalysts to prioritize, respond, information about threats in their poruse, optimizing their security s of attacks. exection and response (NDR), security 4) and endpoint direction and response of UEAS, SOAR and sensitivities to tures market-leading SASE integrations grations with general-purpose and billy to instantify pare new sources, shy in the field by NetWitness incident new detections and methods cycle back	Highlights - Comprehensive threat detection, in response across network, logs, and deployed on premises, cloud, or hyf business intelligence including ask prioritization, with professional luid Cyber Defense Services to suppleme on demand - Out-of-the box value with over 4000 integrations for general-purpose an security tools, plus the ability to ins sources, custom SASE integrations (to secure remote workforces.	vestigation, and endpoint, whether virid LL, and UEBA, with discovery and dem Response and net your SOC staff pre-built industry-specifice tantty parse new packets AND logs)			

5. Verify the terms and the pricing and click **Create Contract**.

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			How long d	o you want your co nonths	ttract to run?		Contra	ct			
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			Contract United St	urrency ites dollar USD (\$)		(EULA) C acknowler behalf, sh transactio terms) wit or underby	You also agree and dge that AWS may, on your are information about this in (including your payment th the respective seller, reseller ing provider, as applicable, in a with the AWS Priser. Notice			
			Renewal Se	tings	ondr on March 14, 20262		AWS w payments seller thro use of AW AWS Cust agreement	vill issue invoices and collect from you on behalf of the sugh your AWS account. Your is services is subject to the omer Agreement? or other it with AWS governing your			
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A success message is displayed that you subscribed to the product.

6. Click Continue to Configuration.

aws marketplace	Q Search						Hello, assumed-role/AWSRes 🔻
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	< Product Detail <u>Subscribe</u>						
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	Your purchase of this product created a lie viewing, granting access, and tracking usa	ense that you can manage i ge of your entitlements.	in AWS License Mana	ger. This may include	Contract		
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	Current software contracts				By subscribing to this software, you		
	Software Unit typ	License(s)	Effective date	Expiration date	agree to the pricing terms and the seller's End User License Agreement (EULA) 2. You also agree and		
	NetWitness Platform NDR	1	3/14/2024	3/14/2025	acknowledge that AWS may, on your behalf, share information about this		
					transaction (including your payment terms) with the respective seller, reseller or underlying provider, as applicable, in		
	Contract currency				accordance with the AWS Privacy Notice C. AWS will issue invoices and collect payments from you on behalf of the		
	Contract currency				setter through your AWS account. Your use of AWS services is subject to the AWS Customer Agreements? or other agreement with AWS coverning your		
	United States dollar USD (\$)				use of such services. If you are receiving a private offer from a channel partner,		
					you may cuck nere 🖉 (for CPPO transaction) or here 📝 (for SPPO		

7. Under Configure this Software view, keep the default settings and click Continue to Launch.

aws marketplace	Q. Search					
About - Categories - Delivery Methods - Solution	ns ▼ AWS IQ ▼ Resources ▼ Your Sav	red List	Become a Channel Partner	Sell in AWS Marketplace	Amazon Web Services Home	Help
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8. Select Launch through EC2 from the Choose Action drop-down list and click Launch.

aws marketplace	Q S	earch			
About - Categories - Delivery Methods - Soluti	ions - AWS IQ - Resources -	Your Saved List	Become a Channel Partner	Sell in AWS Marketplace	Amazon Web Services Home Help
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	Launch this sof	tware			
	Review the launch configurat	ion details and follow the instructions to launch this software.			
	Configuration details				
	Fulfillment option	64-bit (x86) Amazon Machine Image (AMI) NetWitness Platform Inning on Gulage			
	Software version	12.4.0.0			
	Region	US East (N. Virginia)			
	Usage instructions				
	Choose Action Launch through EC2	Choose this action to launch your configuration through the Amazon EC2 console.			
		Launch			

Next steps, Launch button redirects you to the EC2 > Instances > Launch an instance setup view to configure and deploy the EC2 instance.

Deploy EC2 Instance from AWS Marketplace and Configure a

Host

Configure the NetWitness Platform on an AWS instance by using the provided Amazon Machine Image (AMI).

1. Enter the name under the Name and tags for your instance

(Optional) To add other tags, click **Add additional tags**. Then, for each tag, click **Add tag** and enter the Key, Value, and Resource Types.

Not	Note: For Resource Types, add Instances and Volume.							
aws	S	Services	Q Search	[Alt+S]				
≡		EC2 > Instan	nces > Launch an instance					
		Launch Amazon EC2 a following the	an instance Info Ilows you to create virtual machines, or instances, that run on the AWS Cloud simple steps below.	d. Quickly get started by				
		Name ar	id tags Info					
		Name						
		e.g. My W	eb Server	Add additional tags				

2. Under Application and OS Images (Amazon Machine Image), the AMI is pre-selected by default from the AMI from catalog section as you have subscribed.

n AMI is a template pplications) require elow	e that contains the ed to launch your in	software configuration Istance. Search or Bro	on (operating system, owse for AMIs if you d	application	n server, and nat you are looking fo
Q Search our full of	catalog including 1	000s of application a	nd OS images		
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3. Select an instance size from the Instance type drop-down list.

▼ Instance type Info Get advice	
Instance type m7a.4xlarge Family: m7a 16 vCPU 64 GiB Memory Current generation: true On-Demand Linux base pricing: 0.92736 USD per Hour On-Demand SUSE base pricing: 1.05236 USD per Hour On-Demand Windows base pricing: 1.66336 USD per Hour On-Demand RHEL base pricing: 1.05736 USD per Hour Additional costs apply for AMIs with pre-installed software	 All generations Compare instance types

NetWitness recommends creating an **m7a.4xlarge** instance type with 16 CPUs and 64 GB of RAM for NW Server (node-0) and suggests choosing the appropriate instance type based on specific requirements. For further guidance on selecting the recommended instance type for each NW Service, please refer to the Storage Guide for NetWitness® Platform 12.4.

4. Under Key pair (login), create or select the key pair for SSH authentication.

Note: If you are creating an instance for the first time, you need to generate a key pair. For subsequent instances, you can reuse the same key pair.

▼ Key pair (login) Info	
You can use a key pair to securely connect to your inst before you launch the instance.	tance. Ensure that you have access to the selected key pair
Key pair name - required	
Select	Create new key pair

a. To create a new key pair, select Create new key pair.

The Create key pair dialog is displayed.



- b. In the **Key pair name** text box, type a name for the new key pair and keep other values as default.
- c. Click Create key pair.

The .PEM file that contains the private key is downloaded.

d. Save the private key to a location that is secure and accessible. You cannot download the private key file again.

Note: AWS EC2 instances are accessed with the help of key pairs and do not proceed without selecting a key pair.

5. Under Network Settings, select a VPC, Subnet, and Security group.

To select or create, click Edit and configure the details:

- a. Select a virtual private cloud (VPC) from the VPC drop-down list.
- b. Select a private subnet for your VPC from the Subnet drop-down list.
- c. Select **Disable** from the **Auto-assign public IP** drop-down menu.
- d. Under Firewall (security groups), Choose the Select existing security group option and under Common security groups drop-down list, select an existing private instance security group that allows ports for the NetWitness, to create an allowlist of trusted IP addresses that can access your NetWitness deployment. In the security group you must add the inbound and outbound rules. For more information on the ports used by NetWitness components, see the topic Network Architecture and Ports topic in the Deployment Guide for NetWitness Platform 12.4.

▼ Network settings Info	
VPC - required Info	
▼	C
Subnet Info	J
	Create new subnet 🗹
Auto-assign public IP Info	
Disable	
Firewall (security groups) Info A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow instance.	v specific traffic to reach your
Create security group Select existing security group	
Common security groups Info	
Select security groups 🔹	
×	G group rules
Security groups that you add or remove here will be added to or removed from all your network in	terfaces.
Advanced network configuration	

- 6. Under Configure storage, specify the size and type of the volume.
 - (Optional) Click **Add new volume** if you need more storage and configure the details. For information about available disk options, see AWS Volume Types.

▼ Configure storage Info	Advanced
1x 200 GiB gp2 Root volume (Not encrypted)	
(i) Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage	e X
Add new volume	
 Click refresh to view backup information The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies. 	C
0 x File systems	Edit

For more information, see the Storage Guide for NetWitness® Platform 12.4 for guidelines on how to configure storage based on based on the requirements of the NetWitness component (that is, service) for which you are launching an instance.

- 7. Under **Summary**, you can specify the number of instances required and review your instance configuration.
- 8. Click Launch Instance.

▼ Summary		
Number of instances Info		
1		
Software Image (AMI)	٨	
[Copied ami-045d4634908b ami-020657bbb885a5b1d	8cacread more	
Virtual server type (instance t2.micro	type)	
Firewall (security group)		
New security group		
Storage (volumes) 1 volume(s) - 196 GiB		
Free tier: In your first includes 750 hours of t3.micro in the Regior t2.micro is unavailable usage on free tier AM	year X t2.micro (or is in which e) instance Is per	
month, 30 GiB of EBS	storage, 2	
Cancel	Launch instance	
	Review commands	

- 9. Wait a few minutes for the provisioning and initialization to finish.
- 10. Click **Connect to instance**, which navigates you to the instances tab where you can see all information about our instance.

aws Services Q Search	h [Alt+S]	٤	♦ Ø Ø
EC2 Dashboard X	Instances (1/6) Info	C	Connect Instance state V Actions V Launch instances V
EC2 Global View	Q Find Instance by attribute or tag (case-sensitive)		< 1 > @
Events	■ Name Z ▼ Instance ID Instance :	tate 🔻 Instance type 🔻 Status check /	larm status Availability Zone 🗢 Public IPv4 DNS 🗢 Public IPv4
Console-to-Code New	□ New0 ⊘Runnin	g @ Q m4.2xlarge	lo alarms + us-east-1a
▼ Instances	NWAWS_HOST	g @ Q m4.2xlarge ⊘ 2/2 checks passed 1	lo alarms + us-east-1a
Instances	awshost0	ig @ @ m4.2xlarge	lo alarms 🕂 us-east-1a .
Instance Types	Conc OStopp	ed @ Q m4.2xlarge – r	io alarms + us-east-1a
Launch Templates	□ ⊙ Stopp	ed @ Q m4.2xlarge – 1	Io alarms + us-east-1a
Spot Requests	Host0	ng ④ ⊖ m4.2xlarge	lo alarms + us-east-1c .
Savings Plans	4		•
Reserved Instances			
Dedicated Hosts	Instance:	=	@ × Î
Capacity Reservations	Details Security Networking Storage Status c	necks Monitoring Tags	
▼ Images			
AMIs	▼ Instance summary Info		
AMI Catalog	Instance ID	Public IPv4 address open address	Private IPv4 addresses
 Elastic Block Store 	IPv6 address	Instance state	Public IPv4 DNS
Volumes	-	⊘ Running	🗇
Snapshots	Hostname type	Private IP DNS name (IPv4 only)	
Lifecycle Manager	IP name:	đ	
▼ Network & Security ▼	Answer private resource DNS name	Instance type	Elastic IP addresses

Note: Wait at the Instances view until the Instance State shows Running and Status checks shows 2/2 checks passed.

11. Select the instance, right-click, and click Connect.

Services Q Search	[Alt+S]		D 4	0 0	•
EC2 Dashboard 🗙	Instances (1/6) Info		C Connect	Instance state 🔻 🛛 Act	tions v Launch instances v
EC2 Global View	Q Find Instance by attribute or tag (case-sensitive)				< 1 > ©
Events	■ Name Z ▼ Instance ID Instance st	tate 🔻 Instance type	▼ Status check Alarm statu	us Availability Zone 🔻	Public IPv4 DNS v Public IPv4
Console-to-Code New	New0 O Running	g 🔍 🔍 m4.2xlarge	⊘ 2/2 checks passed No alarms	+ us-east-1a	
▼ Instances	NWAWS_HOST	g 🔍 🔾 m4.2xlarge	Launch instances arms	+ us-east-1a	
Instances	awshost0 ORunning	g 🔍 🔾 m4.2xlarge	Launch instance from template arms	+ us-east-1a	
Instance Types	Conc Stopper	d 🔍 🔾 m4.2xlarge	Migrate a server arms	+ us-east-1a	
Launch Templates	Stopper	d 🔍 🔍 m4.2xlarge	Connect arms	+ us-east-1a	
Spot Requests	□ Host0 ⊘ Running	g @ @ m4.2xlarge	Stop instance arms	+ us-east-1c	and the second second
Savings Plans	(Start instance		•
Reserved Instances			Reboot instance		
Capacity Reconvations	the second second second second second		Hibernate instance		© ×
New	Details Security Networking Storage Status ch	ecks Monitoring Ta	Terminate instance		
T Images			Instance settings		
♦ Images	▼ Instance summary Info		Networking >		
AMI Catalon	Instance ID	Public IPv4 address	Security >	Private IPv4 addresses	
Anicatalog	đ	Iopen address	s Image and templates Note: Not Note: Note: N	Ø	
 Elastic Block Store 	IPv6 address	Instance state	Monitor and troubleshoot	Public IPv4 DNS	
Volumes	-			Ø	open address 🔀
Snapshots	Hostname type	Private IP DNS name (IPv4 onl	y)		
Lifecycle Manager		đ			
▼ Network & Security ▼	Answer private resource DNS name	Instance type		Elastic IP addresses	-

IMPORTANT: You must contact NetWitness Customer Support to procure NetWitness repositories to continue orchestrating the software. Please provide the NAT gateway IP address (not the Bastion host IP) to whitelist, which allows access to the NetWitness repository package.

- 12. On your computer, open a terminal program, then navigate to the location where the .pem file is stored to open an SSH connection using the aws user account.
- 13. Enter the following command to connect to the Bastion instance:

ssh -i <.pem file> ec2-user@<Public IP>

```
For example: ssh -i aws.pem ec2-user@150.0.0.0
```

14. Enter the following command to connect to your private (NW server) instance from the Bastion instance:

Note: Make sure to copy the downloaded .pem key of the private NetWitness instance to the Bastion instance to connect to the NetWitness private instance.

ssh -i <.pem file> ec2-user@<Private IP>

For example: ssh -i aws.pem ec2-user@10.0.0.0

15. Enter the following command to set the root privileges for the aws user:

sudo su

16. Enter the following command to copy the NetWitness 12.4.0.0 package to this location:

wget -m -nH --no-parent https://repo.netwitness.com/12.4.0.0/

Caution: Do not proceed with the installation until the ports on your firewall are configured.

17. Install the NetWitness Platform. For more information, see **Installation Tasks** section under the topic Launch an Instance and Configure a Host.

To configure the other Component hosts, for example, **Packet Decoder** Host, you must repeat the steps 1-11 to launch a new EC2 instance and perform the **Installation Tasks** procedure and then log in to the NetWitness Platform and follow the procedure **Install Component Services on Hosts** under the topic Launch an Instance and Configure a Host.

18. If you use the Enterprise network to access AWS resources such as EC2 instances, you can access the NetWitness Platform UI using the private IP address of the NetWitness instance (node-0). However, suppose you are not connected to an Enterprise network. In that case, you must set up port forwarding within your Bastion instance to access the NetWitness Platform UI from your local system using the public IP of the Bastion instance.

Getting Help with NetWitness Platform

Contact NetWitness Support

If you contact NetWitness Support, you should be at your computer. Be prepared to provide the following information:

- The version number of the NetWitness Platform product or application you are using.
- The type of hardware you are using.

Use the following contact information if you have any questions or need assistance.

NetWitness Community Portal	https://community.netwitness.com		
	In the main menu, click Support > Case Portal > View My Cases .		
International Contacts (How to Contact NetWitness Support)	https://community.netwitness.com/t5/support/ct-p/support		
Community	https://community.netwitness.com/t5/netwitness-discussions/bd- p/netwitness-discussions		
NW Update	https://update.netwitness.com/		
LiveUI	https://live.netwitness.com		

Feedback on Product Documentation

You can send an email to feedbacknwdocs@netwitness.com to provide feedback on NetWitness Platform documentation.