



STORMSHIELD



TECHNICAL NOTE

STORMSHIELD NETWORK SECURITY

EVA ON AMAZON WEB SERVICES (AWS)

Product concerned: SNS 3.8 and higher versions, SNS 4.x

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Reference: [sns-en-eva_on_amazon_web_services_technical_note](#)



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Change log

Date	Description
August 30, 2024	New document



Introduction

This document will guide you through the main steps towards setting up your Stormshield Network Security Elastic Virtual Appliance (EVA) on Amazon Web Services (AWS).

Available AWS / EVA instances

This table presents the different kind of AWS instances and the corresponding EVA models:

AWS instance	vCPU	RAM (GB)	Network interfaces	Bandwidth	EVA model
t3.micro	2	1	2	Up to 5 Gbit/s	EVA1
t3.small	2	2	3	Up to 5 Gbit/s	EVA1
t3.medium	2	4	3	Up to 5 Gbit/s	EVA3
c5.xlarge	4	8	4	Up to 10 Gbit/s	EVA4
c5.2xlarge	8	16	4	Up to 10 Gbit/s	EVAU
c5.4xlarge	16	32	8	Up to 10 Gbit/s	EVAU



Before you start...

Please make sure you have completed the following steps before you start deploying your Stormshield Network Security EVA instance.

Choose the EC2 instance type matching your needs

Your EVA UTM will be deployed on an EC2 instance. Several choices of EC2 instance types will be offered to you, depending on the resources you need.

Here are the minimal requirements, depending on the EVA model you want to run:

Required RAM	Required Drive Space	Virtual CPUs
1 GB	10 GB	1 – 16

Get your EVA UTM license

Once deployed, your EVA will require a software license to run properly. The license depends on the RAM size of your EVA.

Please contact your Stormshield Network distributor to order a license for your EVA. If you don't already have a distributor, you can use our [partner locator website](#).

Create a VPC

1. Log in to your AWS Console (<https://console.aws.amazon.com>).
2. In the **Services** menu, select the **VPC** section.
3. Select **Your VPCs** menu.
4. Click on **Create VPC**.
5. Name this new VPC.
6. Indicate the network to use (**IPv4 CIDR block**: 10.6.0.0/16 in the example),
7. Select the **IPv6 CIDR block** option if needed.
8. Leave *Default* for the **Tenancy** field.
9. Click **Create**.

Create subnets in the VPC

To enable different IP network addresses on internal and external interfaces of the firewall, you have to create two subnets in the VPC.

Creating the public subnet

1. In the **VPC Dashboard**, select the **Subnets** menu.
2. Click on **Create a subnet**.
3. Fill in the following fields:



- **Name tag:** Stormshield public in the example,
 - **VPC:** select the previously created VPC (10.6.0.0./16 in the example),
 - **IPv4 CIDR block:** indicate the IP subnet (10.6.0.0/24 in the example).
4. Click on “**Yes, Create**”.

Creating the private subnet

Repeat steps 2 and 3 with the following values to create the private subnet:

- **Name tag:** Stormshield private in the example,
- **VPC:** select the previously created VPC (10.6.0.0./16 in the example),
- **IPv4 CIDR block:** indicate the IP subnet (10.6.1.0/24 in the example).

Create the VPC Internet gateway

Creating a VPC Internet gateway needs the following steps :

1. In the **VPC Dashboard**, select the **Internet Gateways** menu.
2. Click on **Create internet gateway**.
3. Provide a name (**Name tag**) for the Internet gateway and click on **Create**.
4. Select this gateway in the list.
5. Click on **Action / Attach to VPC** button and indicate the previously created VPC.
6. Validate.

Create an “Allow All” Security Group in your AWS Console

As your Stormshield Network Security EVA will provide security to your network by itself, the Amazon Web Services network filter to and from your EVA instance should be deactivated.

In order to do this, create a Security Group allowing all traffic. This Security Group will later be attached to your EVA instance

Creating a security group

1. In the **Services** menu, select the **VPC** section.
2. In the **Security** menu, select **Security Groups**.
3. Click on **Create security group**.
4. Name this new Security Group.
5. Add a **Description**.
6. Select your **VPC**.
7. Click on **Create**.
8. **Validate**.



Creating inbound rules

1. Select your Security group in the list
2. Click on the **Inbound Rules** tab.
3. Click on **Edit rules**.
4. In the Type column, select **All Traffic**.
5. In the sSource column, select Anywhere
6. Click on **Save** rules.
7. Click on **Close**

Creating outbound rules

1. Click on the **Outbound Rules** tab.
2. Click on **Edit rules**.
The **Outbound Rules** tab should already be set to allow all outbound traffic. If it isn't, perform the same actions as for Inbound traffic (same values).

Your Security Group is now ready to be used during the creation of your EVA instance.

Create a Key Pair in your AWS Console

To secure SSH access to your EVA instance, please select an existing Key Pair when creating the instance. If no such Key Pair exists or if you want to use a new one for this instance, you can create it as follows:

1. In the **Services** menu, select **EC2**
2. In the **Network & Security** menu, select **Key Pairs**.
3. Click on **Create Key Pair** and provide a name for this new Key Pair.
4. Click on **Create**.
5. Download the Key Pair provided in *pem* format and store it in a safe place on your computer.



Deploying your EVA

1. Access to the marketplace by clicking on the following link: [Stormshield Network Security AWS EVA](#)
2. If not already done, **Sign in** using your Amazon.com account.
3. Once you've reached the Product Overview page, you can estimate the costs of your virtual appliance.

! IMPORTANT

EBS Storage is not included in these fees. EVA will require 10 GB of EBS storage.

! IMPORTANT

The amount includes AWS fees only. The SN license is not issued by AWS, as the EVA Stormshield Network Security is provided with a Bring Your Own License (BYOL) model. The SN software license must be ordered from your distributor (see [Get your EVA UTM license](#)).

4. Click on **Continue to Subscribe**.
5. Subscribe to the Stormshield Offer if not already done.
6. Click on **Continue to Configuration**.
7. If you don't want to deploy the last available version of the Stormshield Network software, select the version you want in the **Software Version** section.
5. Select the region where you want to deploy your virtual firewall.
You must deploy your EVA in the region where your protected AWS servers and VPC are already deployed. The region where you will deploy the EC2 instance running your EVA might have an impact on several factors, including:
 - AWS charges for this Instance,
 - Network performance,
 - Local legislation.
6. Click on **Continue to Launch**.
7. Leave "Launch from Website" in the **Choose Action** section.
8. In the **EC2 Instance Type** section, select the EC2 Instance Type you need (see [Choose the EC2 instance Type matching your needs](#)).
9. Choose your **VPC**.
10. Select the public subnet previously created (10.6.0.0/24 in the example).
11. In the **Security Group Settings** section, select the previously created Security Group allowing all inbound and outbound traffic (*Allow all* in the example).
12. Select the Key Pair you want to install on your instance.
13. Click on **Launch**.
Your instance is now being deployed and started.
14. In the **AWS console**, you can now edit the **Name** of your instance (**Services > EC2 > Instances > Instances** menu).



Allocate a public IP address to your instance

To enable remote administration of the firewall, you must define a public IP address (Elastic IP) and assign it to the firewall:

1. In the **Services** menu, select **EC2**
2. In the **Network & Security** menu, select **Elastic IPs**.
3. Click on **Allocate New Address**
4. Select **VPC** for allocation and confirm (**Allocate**)
5. Select the newly created Elastic IP
6. Click on **Action > Associate address**
7. In the **Instance** field, select your EVA new instance
8. In the **Private IP** field, select the suggested IP address
9. Click on **Associate**.
10. You can now access the Stormshield Network Administration Console with your web browser using the link `https://EC2 Elastic IP address>/admin`.
11. The default login is **admin**, and the default password is your EC2 instance ID (available in the EC2 Instances console).
12. Once logged in, please change the **admin** account password (**System > Administrators > Admin account** tab).
13. You can now set up your EVA instance. Do not forget to install your EVA activation kit as soon as possible (see [EVA Installation Guide](#)).



Further reading

Additional information and responses to questions you may have are available [Stormshield knowledge base](#) (authentication required).



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documentation@stormshield.eu

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