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## SIMATIC NET

Amazon Cloud (AWS)

# Industrial Remote Communication - Remote Networks SINEMA RC Server in the cloud

**Getting Started** 

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This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

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#### WARNING

indicates that death or severe personal injury **may** result if proper precautions are not taken.

#### 

indicates that minor personal injury can result if proper precautions are not taken.

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indicates that property damage can result if proper precautions are not taken.

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# Preface

#### Purpose of this documentation

Example for connection of SINEMA RC Server in the cloud.

#### Validity of this documentation

This manual is valid for the following software version:

• SINEMA Remote Connect as of version V3.0

#### Current manuals and further information

You will find the current manuals and further information on remote networks products on the Internet pages of Siemens Industry Online Support:

• Using the search function:

Link to Siemens Industry Online Support (https://support.industry.siemens.com/cs/ww/en/ps/21816)

Enter the entry ID of the relevant manual as the search item.

• via the navigation in the "Remote Networks" area:

Link to the "Remote Networks" area (https://support.industry.siemens.com/cs/ww/en/ps/21778)

Go to the required product group and make the following settings: "Entry list" tab, Entry type "Manuals"

You will find the documentation for the products relevant here on the data storage medium that ships with some products:

- Product CD / product DVD
- SIMATIC NET Manual Collection

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## Introduction

In this example configuration, we show you how to migrate the SINEMA RC Server to Amazon S3 (Amazon Simple Storage Service).

To do so, the virtual machine is uploaded to the cloud. So that it is executable, the virtual machine is imported via the AWS CLI to an Amazon Machine Image (ami).

#### Requirements

- Install the SINEMA RC Server V3.0 in a virtual machine.
- For the installation, select the dynamic assignment of the IP address via DHCP, e.g., 192.168.9.90.
- Before the initial logon, export the virtual machine as an ova file. The ova file contains the files that are necessary for the virtual machine.

If the virtual machine is uploaded to the cloud before the initial logon, a separate key and a separate certificate is created for each instance that is derived from the AMI.

#### **IP** settings

The IP settings used in the configuration example were freely chosen.

In a real network, you would need to adapt these IP settings to avoid possible address conflicts.

#### Additional information

• AWS documentation (https://docs.aws.amazon.com/index.html)

Introduction

# Amazon Cloud (AWS)

## 3.1 Uploading the ova file

For the virtual machine to be reachable in the cloud, the ova file is uploaded.

#### Requirement

• You have a valid AWS account.

#### Procedure

- 1. Log in to the AWS management console.
- 2. Click on "All services".
- 3. Under "Storage", click on "S3".
- For uploading create an AWS bucket in an AWS region. Click on "Create bucket". Enter the name "sinema-remote-connect".



Figure 3-1 Bucket

The AWS region must correspond to the region in which the SINEMA RC Server is to be located, for example, Europe (Frankfurt) - eu-central-1.

To upload the ova file, click on "Upload" and select the ova file.

3.2 Importing ova in AMI

## 3.2 Importing ova in AMI

#### 3.2.1 Configuring AWS CLI

To configure the AWS CLI, you need an "Access Key ID" and an associated "Secret Access Key". This access information is assigned when the user is created.

#### Requirement

• You have a valid AWS account.

#### Procedure

- 1. Log in to the AWS management console. Under "Security, Identity & Compliance", click on "IAM".
- 2. The "Identity & Access Management (IAM)" opens. Under "Access Management", click on "Users".
- 3. Click on "Add User". Enter a user name, for example, SRCAdmin.

For "Access type", select "Programmatic access" and click on "Next: Permission".

4. In this example the user is assigned the "AdministratorAccess" policy.

Click on "Attach existing policies directly" and select "AdministratorAccess".

- 5. Click on "Next: Tags" and "Next: Preview".
- 6. To create the user, click on "Create User".

The access key is generated. Download the download.csv file. This file contains the Access Key ID and the Secret Access Key.

This information is only displayed in this window and cannot be retrieved again later.

- 7. Install the AWS CLI.
- 8. To configure the AWS CLI, you need the "Access Key ID" and the associated "Secret Access Key".
- 9. Open the Command Prompt on the PC.
- 10.Configure the AWS CLI.

```
Example
```

```
> aws configure
AWS Access Key ID [None]: AKIxxxxxxxxXXXXXXAA
AWS Secret Access Key [None]:
q3YKo+xxxxxxxxxxxxxxxxnj0nDkGy41
Default region name [None]: eu-central-1
Default output format [None]: json
```

#### Additional information

AWS documentation "Installing AWS CLI (<u>https://docs.aws.amazon.com/cli/latest/userguide/cli-chap-install.html</u>)"

AWS documentation "Configuring AWS CLI (https://docs.aws.amazon.com/cli/latest/userguide/cli-chap-configure.html)" 3.2 Importing ova in AMI

### 3.2.2 Importing virtual machine as AMI

#### Requirement

• You have a valid AWS account.

#### Configuring the IAM role "vmimport"

The import requires a role to execute the operation.

```
1. Create the trust-policy.json file and save it.
  Example:
  {
      "Version": "2012-10-17",
      "Statement": [
         {
            "Effect": "Allow",
             "Principal": { "Service": "vmie.amazonaws.com" },
             "Action": "sts:AssumeRole",
             "Condition": {
                "StringEquals":{
                   "sts:Externalid": "vmimport"
                }
            }
         }
      1
  }
2. Open the Command Prompt on the PC.
```

3. You create the role with the command:

#### Example

```
> aws iam create-role --role-name vmimport --assume-role-policy-
document "file://C:\import\trust-policy.json"
```

For file enter the complete path to the storage location of the file.

4. Create a file with the name <code>role-policy.json</code> to assign the corresponding policies for the import to the IAM role.

Example:

```
{
   "Version":"2012-10-17",
   "Statement":[
      {
         "Effect": "Allow",
          "Action": [
             "s3:GetBucketLocation",
             "s3:GetObject",
             "s3:ListBucket"
          ],
          "Resource": [
             "arn:aws:s3:::sinema-remote-connect", Bucket for data
storage medium image (Page 9)
             "arn:aws:s3:::sinema-remote-connect/*"
          ]
      },
      {
          "Effect": "Allow",
          "Action": [
             "s3:GetBucketLocation",
             "s3:GetObject",
             "s3:ListBucket",
             "s3:PutObject",
             "s3:GetBucketAcl"
          ],
          "Resource": [
             "arn:aws:s3:::sinema-remote-connect", Bucket for exported
images (Page 9)
             "arn:aws:s3:::sinema-remote-connect/*"
          ]
      },
      {
          "Effect": "Allow",
```

3.2 Importing ova in AMI

```
"Action": [
    "ec2:ModifySnapshotAttribute",
    "ec2:CopySnapshot",
    "ec2:RegisterImage",
    "ec2:Describe*"
  ],
    "Resource": "*"
}
```

5. You assign the policy to the role with the command:

#### Example

}

```
> aws iam put-role-policy --role-name vmimport --policy-name
vmimport --policy-document "file://C:\import\role-policy.json"
```

For file enter the complete path to the storage location of the file.

#### Additional information

 AWS documentation "VM Import/Export" in the section "Required service role (<u>https://docs.aws.amazon.com/vm-import/latest/userguide/vmie\_prereqs.html#vmimport-role</u>)"

#### Importing the ova file in AMI

ſ

```
1. Create the container.json file and save it.
   Example:
```

```
{
    "Description": "SINEMA RC V3.0",
    "Format": "ova",
    "UserBucket": {
        "S3Bucket": "sinema-remote-connect",
        "S3Key": "SinemaRC.ova"
    }
}]
```

- 2. You start the import with the command.
- 3. Example

```
> aws ec2 import-image --description "SINEMA RC V3.0" --disk-
containers "file://C:\import\container.json"
```

For file enter the complete path to the storage location of the file.

#### Additional information

AWS documentation "VM Import/Export" in the section "Importing a VM as an image using • VM Import/Export (https://docs.aws.amazon.com/vm-import/latest/userguide/vmimportimage-import.html)".

### 3.3.1 Creating a VPC

To operate the SINEMA RC application in a secure environment, you create an Amazon Virtual Private Cloud (VPC).

#### Requirement

• You have a valid AWS account, and you are logged in to the AWS management console.

#### Procedure

- 1. For "Networking & Content Delivery", click on "My VPC" (Virtual Private Cloud).
- 2. Click on "Create VPC".
- 3. Enter the name "sinemarc".

4. Enter an "IPv4 CIDR block" that matches the settings of the SINEMA RC server.

# Create VPC Info

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances.

VPC settings	
Name tag - optional Creates a tag with a key of 'Name' and a value that you specify.	
SinemaRC	
IPv4 CIDR block Info	
192.168.0.0/16	
IPv6 CIDR block Info	
No IPv6 CIDR block	
Amazon-provided IPv6 CIDR block	
IPv6 CIDR owned by me	
Tenancy Info	

5. Click on "Create VPC". The VPC "sinemarc" is listed in the overview.

#### Additional information

AWS documentation "Amazon VPC" in the section "VPCs and subnets (https://docs.aws.amazon.com/vpc/latest/userguide/VPC\_Subnets.html)".

#### 3.3.2 Adding an internet gateway to the VPC

#### Requirement

- You have a valid AWS account, and you are logged in to the AWS management console.
- VPC dashboard is open.

#### Adding an internet gateway

- 1. Under "Virtual Private Cloud", click on "Internet Gateway".
- 2. Click on "Create internet gateway".

VPC >	>	Internet	gateways	>	Create	internet	gateway
-------	---	----------	----------	---	--------	----------	---------

## Create internet gateway Info

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Creates a tag with a key of 'N	ame' and a value that y	you specify.		
SinemaRC_GW				
<b>Fags - optional</b> A tag is a label that you assig	n to an AWS resource.	Each tag consists of a key and an op	tional value. You ca	an use tags to search and filter
your resources or track your A	AWS costs.			
your resources or track your A	AWS costs.	Value - optional		
Cour resources or track your A	WS costs.	Value - <i>optional</i> Q. SinemaRC_GW	×	Remove
Vour resources or track your A	WS costs.	Value - <i>optional</i> Q SinemaRC_GW	×	Remove

- 3. Enter a name and click on "Create internet gateway".
- 4. Right-click on the name of the internet gateway.

#### 5. Select "Attach to VPC".

VPC > Internet gateways > Attach to VPC (igw-ea0a8f81)

# Attach to VPC (igw-ea0a8f81) Info

#### VPC

Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

tach the internet gateway to this VPC.		
Q Select a VPC		
vpc-a374f2c9	-	
vpc-041910f5970460126 - SinemaRC		
	vpc-041910f5970460126 - SinemaRC	
	Cancel	Attach internet gatewa

- 6. For "Available VPC", select "SinemaRC".
- 7. Click on "Attach internet gateway".

#### Adding a route

A route is added for access from the external network.

- 1. Under "Virtual Private Cloud", click on "Route Tables".
- 2. Right-click on the VPC name.
- 3. Select "Edit routes".

For "Destination" enter "0.0.0.0/0" (all IP addresses) and for "Target" select the ID of the internet gateway.

#### Route Tables > Edit routes

#### Edit routes

Destination	Target		Status	Propagated	
192.168.0.0/16	local	•	active	No	
0.0.0.0/0	igw-ea0a8f81	•		No	8
Add route					
* Required				Con	Carro rou

4. Click on "Save routes".

#### Adding an Elastic IP address

The SINEMA RC Server can be reached via the internet using the Elastic IP address.

- 1. Under "Virtual Private Cloud", click on "Elastic IPs".
- 2. Click on "Allocate Elastic IP address".

```
VPC > Elastic IP addresses > Allocate Elastic IP address
```

## Allocate Elastic IP address

Allocate an Elastic IP address from a public IPv4 address pool, or use global IP addresses from AWS Global Accelerator. You can have one Elastic IP associated with a running instance at no charge. You're charged for additional Elastic IPs that are associated with the instance, Elastic IPs that are associated with stopped instances or unattached network interfaces, and unassociated Elastic IPs. Learn more

Pub Pub	blic IPv4 address pool vlic IP addresses are allocated from Amazon's pool of public IP addresses, from a pool that you own and bring to your account, or from a vl that you own and continue to advertise
0	Amazon's pool of IPv4 addresses
•	Public IPv4 address that you bring to your AWS account (option disabled because no pools found) Learn more
0	Customer owned pool of IPv4 addresses (option disabled because no customer owned pools found) Learn more
Glo	bal static IP addresses
AW:	S Global Accelerator can provide global static IP addresses that are announced worldwide using anycast from AWS edge locations. This help improve the availability and latency for your user traffic by using the Amazon global network. Learn more

3. Use the default settings and click on "Allocate".

#### Creating a security group for internet access

- 1. Under "Security", click on "Security groups".
- 2. Click on "Create security group".

3. Enter a name and select "sinemarc" for "VPC".

### Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details	
Security group name Info	
SinemaRC_Securitygroups	
Name cannot be edited after creation.	
Description Info	
Firewallrules	
VPC Info	

4. Configure the ports for inbound rules as follows:

Туре	Protocol	Port range	Source	IP
Custom TCP	ТСР	6220	Custom	0.0.0.0/0
				All IP addresses
Custom UDP	UDP	1194	Custom	0.0.0.0/0
				All IP addresses
Custom TCP	ТСР	5443	Custom	0.0.0.0/0
				All IP addresses
HTTPS	ТСР	443	Custom	0.0.0/0
				All IP addresses

type info	Protocol In	fe Port range Infe	Source belo		Description - optional into	
Custom TCP	▼ TCP	6220	Custom 🔻	Q	Fallback	Delete
				0.0.0.0/0 🗙		
Custom UDP	• UDP	1194	Custom 💌	٩	Ovpn UPD	Delete
				0.0.0.0		
Custom TCP	▼ TCP	5443	Custom •	Q	Ovpn TCP	Delete
				0.0.0.0/0 🗙		
HTTPS	• TCP	443	Custom 👻	Q.	WBM	Delete
				0.0.0.0/0 ×		

5. Configure the ports for outbound rules as follows:

All	Custom	0.0.0/0 All IP addresses
ustom V Q	Description - optional Info	Delete
0.0.0.0/0 ×		
a tans to search and filter your resources or track	your AWS coefe	
e tags to search and filter your resources or track	your AWS costs.	
e tags to search and filter your resources or track	your AWS costs.	
	ustom V Q	ustom ▼ Q 0.0.0.0/0 X

6. Click on "Create security group".

#### Creating a subnet

- 1. Under "Virtual Private Cloud", click on "Subnets".
- 2. Click on "Create subnet" and select "sinemarc" for "VPC".

VPC	
/PC ID	
reate subnets in this VPC.	
vpc-041910f5970460126 (SinemaRC)	•
ssociated VPC CIDRs	
Pv4 CIDRs	
02 169 0 0/16	

You configure the subnet in the "Subnet settings" area.

- 3. Enter a name.
- 4. Do not change the setting for "Availability Zone".

5. Enter an IPv4 CIDR block that matches the settings of the SINEMA RC server.

ubnet 1 of 1			
Subnet name Create a tag with a key of 'Name' and a value that you specify.			
SinemaRC_Subnet_wan			
The name can be up to 256 characters long.			
Availability Zone Info Choose the zone in which your subnet will reside, or let Amazon choose one for you.			
Europe (Frankfurt) / eu-central-1c	•		
		·	
IPv4 CIDR block Info			
IPv4 CIDR block Info Q. 192.168.0.0/24	×		
IPv4 CIDR block Info Q 192.168.0.0/24 Tags - optional Remove	×	]	

6. Click on "Create subnet".

#### Additional information

AWS documentation "Amazon VPC" in the section "Adding an internet gateway to your VPC".

#### See also

Internet Gateway (https://docs.aws.amazon.com/vpc/latest/userguide/VPC\_Internet\_Gateway.html)

### 3.3.3 Configuring the network interface

#### Requirement

• You have a valid AWS account, and you are logged in to the AWS management console.

#### Adding a network interface

- 1. For "Compute", click on "EC2". The EC2 dashboard opens.
- 2. For "Network & Security", click on "Network Interfaces".
- 3. Click on "Create Network Interface".
- 4. For "Subnet" select the subnet of the WAN interface.
- 5. For "Private IPv4 address" select "Custom" and enter the IP address (192.168.9.90) of the WAN interface for "IPv4 address".

6. For "Security groups" enable the configured security group.

## Create network interface

An elastic network interface is a logical networking component in a VPC that represents a virtual network card.

Details Info		
Description - optional A descriptive name for the network interface.		
SinemaRC_WAN		
Subnet The subnet in which to create the network inter	face.	
Q subnet-0af66319a1eb14596		XC
Private IPv4 address The private IPv4 address to assign to the netwo	ork interface.	
O Auto-assign		
O Custom		
IPv4 address		
192.168.9.90		
Elastic Fabric Adapter		
Enable		
Security groups (1/2) Info		
<b>Q</b> , Find resources		< 1 > @
Group ID	Group name 🗢	Description
✓ sg-03d8154ababea3025	SinemaRC_Securitygroups	Firewallrules

7. Click on "Create Network Interface".

### Assigning the Elastic IP address to the network interface

- 1. Right-click on the name of the network interface.
- 2. Select "Associate Address".
- 3. For "Elastic IP address" select the desired IP address.

4. For "Private IPv4 address" select the IP address of the SINEMA RC server.

▼		
•		
	▼	•

#### Disable source/destination check

SINEMA RC does not support the check mechanism of AWS. To operate the instance without complications, disable the checks.

- 1. For "Network & Security", click on "Network Interfaces".
- 2. Right-click on the name of the network interface.
- 3. Select "Change source/des. check".

4. Select the "Enable" entry in the following dialog.

Change source/destination check	×
Network interface	
eni-07589f12bebf93edc	
Source/destination check	
Enable	
	Cancel Save

5. Click on "Save".

#### Additional information

AWS documentation "Amazon EC2" in the section "Work with network interfaces (https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-eni.html#working-with-enis)".

#### 3.3.4 Starting the SINEMA RC instance

#### Requirement

- You have a valid AWS account, and you are logged in to the AWS management console.
- The EC2 dashboard is open.

#### Procedure

- 1. Under "Images", click on "AMI".
- 2. Select the SINEMA RC Server AMI and click on "Launch".
- 3. Select the type of instance and click on "Next: Configure Instance Details".
- 4. As "Network" select the configured VPC and as "Subnet" the configured SINEMA RC WAN subnet.

#### 5. Under network interface, select the WAN network interface for eth0.

igure the instance to suit your require	incins.	Tou can taution multiple instances from the same Awit, req	luc	51 3	put instances to take advantage of the for
Number of instances	(j)	1 Launch into Auto Sca	ling	Gn	oup (j)
Purchasing option	(j)	Request Spot instances			
Network	(j)	vpc-0e0cf140bdfc67b1e   SinemaRC		С	Create new VPC
		No default VPC found. Create a new default VPC.			
Subnet	(j)	subnet-0f98d7966101f9fe2   SRC_WAN   eu-central- *	•		Create new subnet
		250 IP Addresses available			₹
Auto-assign Public IP	(j)	Use subnet setting (Disable)			
Placement group	(j)	Add instance to placement group			
Capacity Reservation	()	Open •		C	Create new Capacity Reservation
IAM role	(j)	None	. (	C	Create new IAM role
Shutdown behavior	()	Stop •	,		
Enable termination protection	( <b>i</b> )	Protect against accidental termination			
Monitoring	(j)	Enable CloudWatch detailed monitoring			
		Additional charges apply.			
Tenancy	(i)	Shared - Run a shared hardware instance	·		
		Additional charges will apply for dedicated tenancy.			
T2/T3 Unlimited	(i)	Enable			
		Additional charges may apply			

- 6. Click on "Review and Launch".
- 7. The connection authentication is queried on the next page.
- 8. Because the SINEMA RC can be used entirely with the WBM, an additional logon is not required and not even possible.
- 9. This means you select "Proceed without a key pair" and click on "Launch instances".

#### Additional information

AWS documentation "Amazon EC2" in the section "Instances (https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/Instances.html)".

### 3.3.5 Configuring the SINEMA RC Server with cloud data

For the virtual machine to be reachable in the cloud, the ova file is uploaded and then converted into an Amazon Machine Image (AMI).

#### Procedure

- 1. Log in to SINEMA RC and go to "System > Network configurations".
- 2. Select "SINEMA Remote Connect is located behind a NAT device" and enter the "Elastic IP address" for "WAN IP address".

SI	Е	М	Е	N	S
			_		

#### SINEMA Remote Connect

Logged on as "	Network configuration					
Log off C	Interfaces	DNS	Web server settings			
▼ System	If you change th	e following settings, exist	ing connections to devices / users can be terminated and the			
▶ Overview	Web server is tem	porarity unreachable!				
▶ Logfile		Activate the interface				
Network configuration	Interface	WAN T				
<ul> <li>Date &amp; time settings</li> </ul>	MAC address	0a:22:eb:e6:54:34				
SMS & E-mail	MTH	1460				
► Licenses	MIU	1400				
Update	IP address	192.168.9.90				
Upload Server	Network mask	255.255.255.0				
<ul> <li>Backup &amp; restore</li> </ul>	Default gateway: 192.168.9.1					
Debug Login		SINEMA Remote C	onnect is located behind a NAT device.			
Remote connections	WAN ID addrage					
User accounts	THE IF AUDICSS	La .				
▶ Security		Save				
My account						

Amazon Cloud (AWS)

3.3 Configuring basic data