

AnyNet Secure Cellular Connectivity Sign-up process

This document details how to sign up for the AnyNet Secure Cellular Connectivity through AWS Marketplace.

The AnyNet Secure Cellular Connectivity SaaS product combines with an Eseye AnyNet Secure SIM card to provide connectivity in over 75 countries and billed through your AWS account. For more information on how the AnyNet Secure Cellular Connectivity combines with the AWS IoT cloud see: <https://www.youtube.com/watch?v=bDXk-yCoxxo>

To complete this user guide you require:

- An active AWS account – for help see: <https://aws.amazon.com/premiumsupport/knowledge-center/create-and-activate-aws-account/>

1. AWS Marketplace Product Listing

To sign up to the service navigate to: <https://aws.amazon.com/marketplace/pp/B073S37V78>
Or on the AWS marketplace (<https://aws.amazon.com/marketplace>), search Eseye and click on the product.

Read through the product listing and click the highlighted 'Continue' button on the right side.

The screenshot shows the AWS Marketplace product listing for 'AnyNet Secure Cellular Connectivity'. The page includes a header with the Eseye logo and product name. Below the header, there is a 'Customer Rating' section with a 5-star rating. The 'Delivery Method' is listed as 'Software as a Service (SaaS) Subscriptions'. The 'Support' section provides details about the product. The 'Highlights' section lists key features: 'AnyNet Secure Cellular Connectivity enables IoT M2M devices to connect globally and securely send data to your AWS account, through 235+ cellular networks (2G, 3G, 4G LTE) across 75+ countries', 'Unique levels of integration with AWS IoT provide enhanced levels of security and device management, whilst reducing or removing ongoing developer and infrastructure costs', and 'Remotely activate, provision, authenticate and certify devices over-the-air with data billed in AWS messages through your AWS Account and 24/7/365 expert IoT customer support and value-add project development expertise provided'. The 'Product Description' section further details the product's capabilities. The 'Pricing Details' section shows a table with 'Units' and 'Cost' columns, listing '100k message bundle' at '\$150.00 / unit' and 'Single event, sending the certificate over the air to a device' at '\$1.00 / unit'. A 'Continue' button is highlighted with a red circle. The 'Recent Product Reviews' section is also visible.



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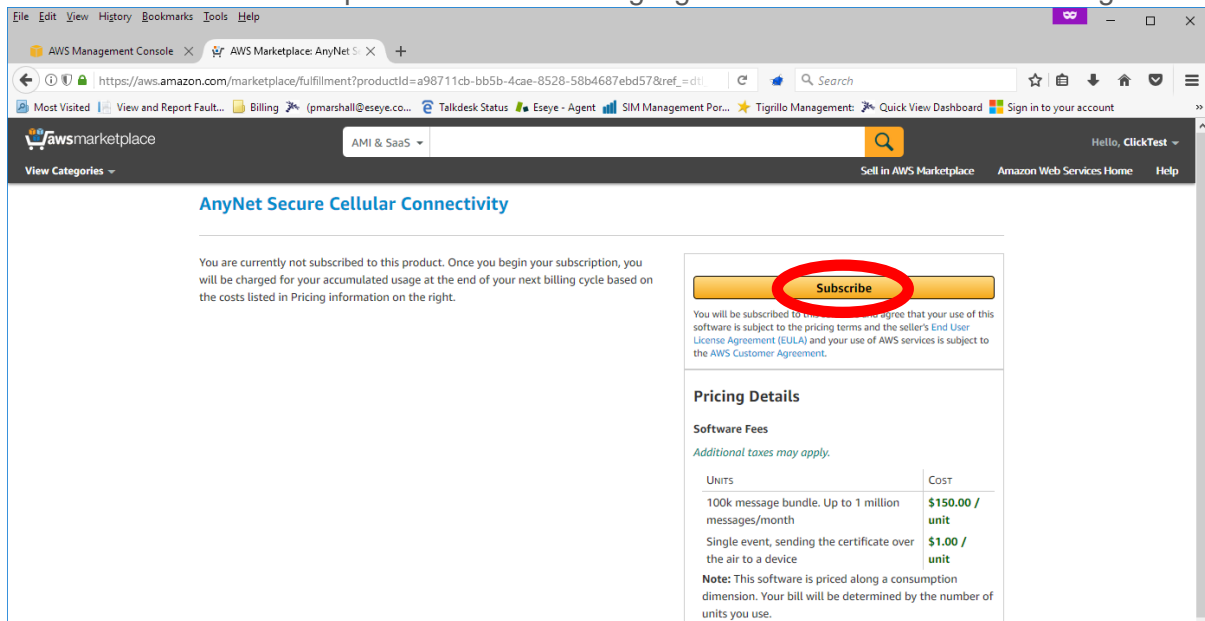


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2.AWS Marketplace Subscribe page

The Subscribe page will appear.

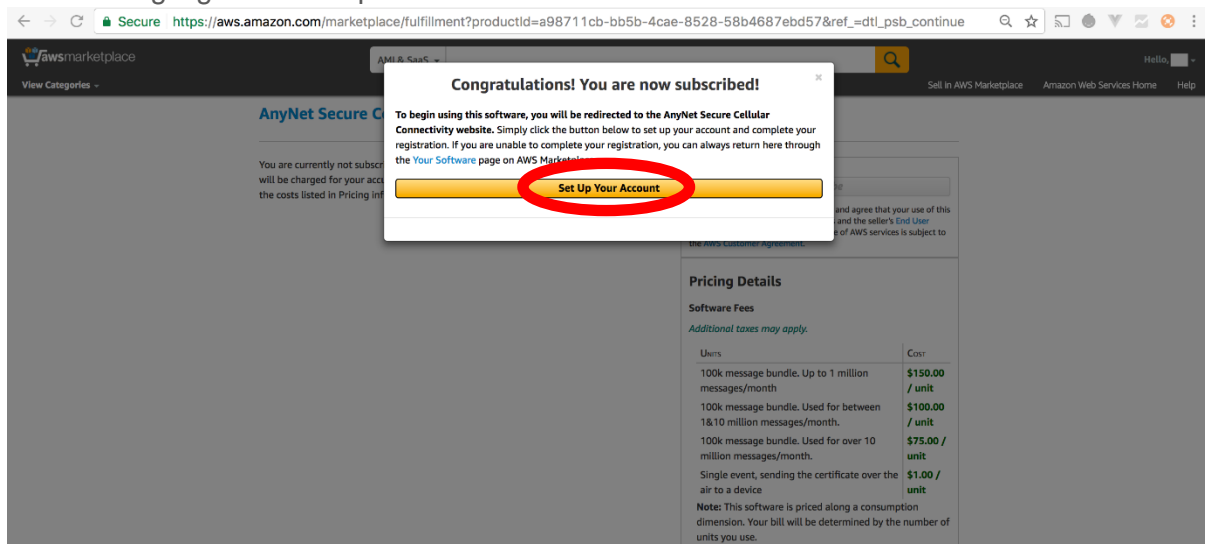
To subscribe to the SaaS product click on the highlighted 'subscribe' button on the right side.



3.AWS Marketplace Congratulations

The 'Congratulations! You are now subscribed!' dialogue box will appear.

Click the highlighted 'Set Up Your Account' button to continue.



4. AnyNet Secure Sign Up

The 'AnyNet Secure Sign up' page will appear.

This sign up process is NOT for your AWS login details. This process creates login details for the Eseye SIAM portal. The Eseye SIAM portal provides optional SIM management functions on top of your AWS IoT Console.

Complete the form, following the on screen guides and press the highlighted 'Sign up' button.

Sign up with a new account

Username

Given name

Family name

Email

Password

Sign up

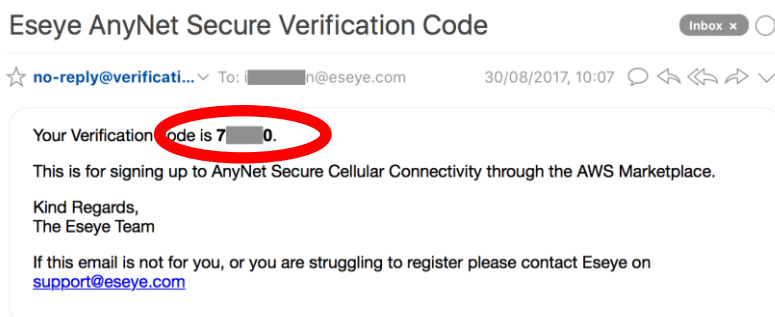
Already have an account? [Sign in](#)

5. Verification Email

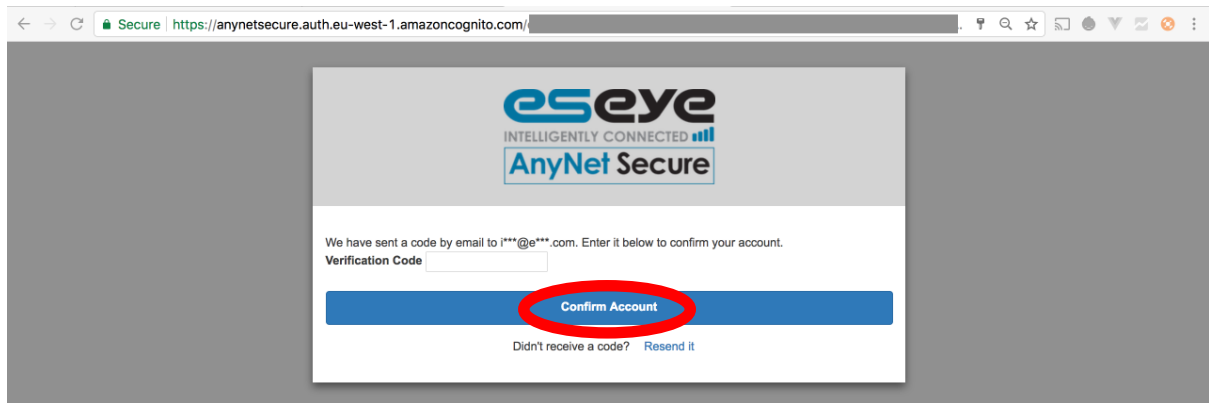
The 'Verification Email' page will appear.

The verification email will be sent from the email address: no-reply@verificationemail.com with the subject: Eseye AnyNet Secure Verification Code.

If you cannot find the email please check your Spam/Junk folder.



Copy the highlighted verification code from the email (as above) into the webpage and click the highlighted 'Confirm Account' button.



6. Welcome page part 1

The 'Welcome' page will appear.

Some permission changes are required to the Resources and IAM permissions within your AWS account. These changes allow the automatic and seamless provisioning of certificates to your devices.

CloudFormation is used to make these changes, information on how these changes will be made is found in the CloudFormation link.

These changes include:

- [CloudWatch Event Rules - Rules for the CreateThing and DeleteThing API calls](#)
- [Lambda functions - The Lambdas are invoked when the CloudWatch Rules are activated](#)

AnyNetSecurePushCertificateToSIM Lambda

This Lambda is invoked on AWS IoT Thing creation. It creates and attaches the certificate and policy to the newly created IoT Thing.

This certificate is then automatically sent to Eseye and onto the AnyNet Secure SIM.

AnyNetSecureTerminateSIM

This Lambda is invoked on AWS IoT Thing deletion. It is responsible for the deletion of the Thing's attached certificate and policy.

Please note, this Lambda is only used when deleting the IoT Thing in the AWS IoT Console.

Click on the 'AnyNet Secure CloudFormation stack' link. You will need to refer back to this page during the process.




Welcome

Ahead of using your AnyNet Secure connectivity, we will need to provide some additional IAM permissions and Lambda functions within your AWS account.

We will be using [CloudFormation](#) to make these changes. You will be able to review the CloudFormation stack before any changes are made.

Please follow the steps below to get started with AnyNet Secure.

[Learn more](#)

First, open the AnyNet Secure CloudFormation stack 	1
You'll notice our CloudFormation <i>template</i> is selected for you.	2
For the ExternalId please enter <code>{{ portfolio_id }}</code>	3
For the ChosenRegion please select the AWS Region you will be using for your IoT applications	4
Please select <i>I acknowledge that AWS CloudFormation might create IAM resources</i> and click Create	5
You should now see the CloudFormation Stacks page. You may need to click the <i>Refresh</i> button before anynet-secure-iam-stack appears in the list	6
Please select the anynet-secure-iam-stack and click the Outputs tab	7
You should see an AnyNetSecureTrustRoleArn key, please copy its associated value here. Similarly, please enter the value for the AwsAccountId key, here. Please can you also indicate the AWS Region where your IoT activity is taking place	8

Role Arn
AWS Account Id
Region

7. CloudFormation Create IAM stack

The CloudFormation Create Stack page will appear.

The Details > Stack Name is preselected as 'anynet-secure-iam-stack'.

In the top taskbar on the right ensure the Region selected is the one you will be using for your IoT applications.

In the Parameters > ChosenRegion section select the region you will be using for your IoT applications.

In the Parameters > ExternalId box copy the alphanumeric string from instruction 4 on the Welcome page.

Under Capabilities check the box to agree to: 'I acknowledge that AWS CloudFormation might create IAM resources'.

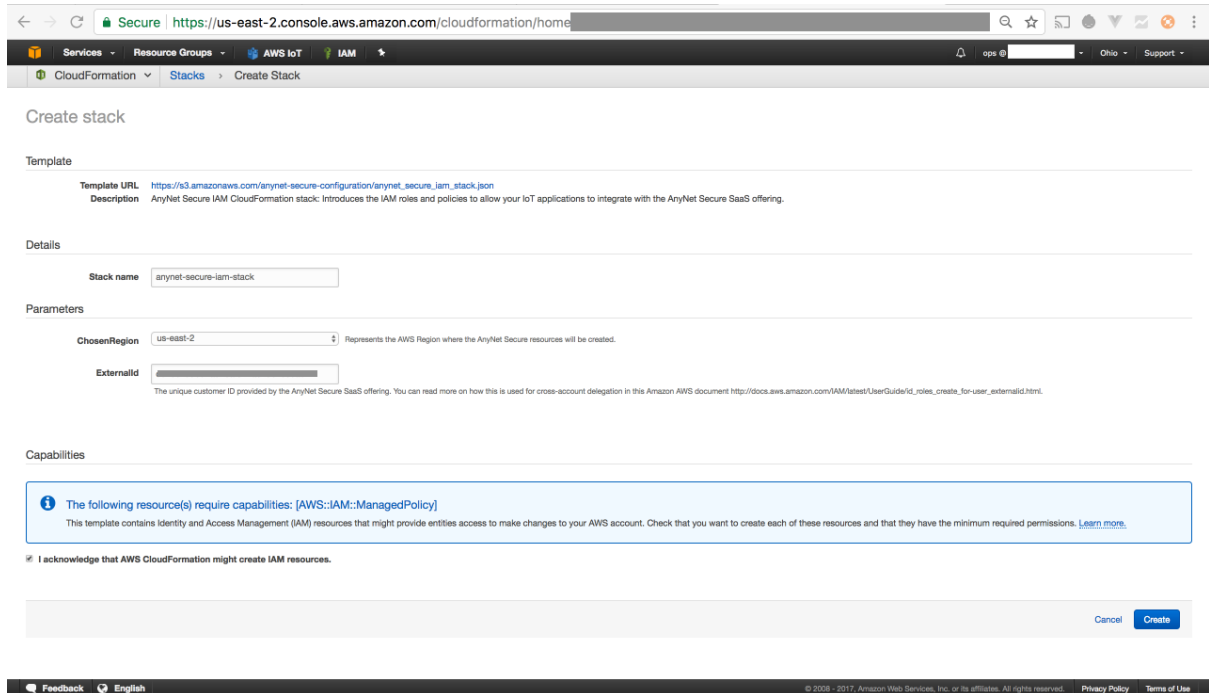
After all of boxes are filled click the 'Create' button in the bottom right.



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Secure | <https://us-east-2.console.aws.amazon.com/cloudformation/home>

Services | Resource Groups | AWS IoT | IAM

CloudFormation | Stacks | Create Stack

Create stack

Template

Template URL: https://s3.amazonaws.com/anynet-secure-configuration/anynet_secure_iam_stack.json
Description: AnyNet Secure IAM CloudFormation stack: Introduces the IAM roles and policies to allow your IoT applications to integrate with the AnyNet Secure SaaS offering.

Details

Stack name:

Parameters

ChosenRegion: Represents the AWS Region where the AnyNet Secure resources will be created.

ExternalId:
The unique customer ID provided by the AnyNet Secure SaaS offering. You can read more on how this is used for cross-account delegation in this Amazon AWS document http://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_create_for-user_externalid.html.

Capabilities

The following resource(s) require capabilities: [AWS::IAM::ManagedPolicy]
This template contains Identity and Access Management (IAM) resources that might provide entities access to make changes to your AWS account. Check that you want to create each of these resources and that they have the minimum required permissions. [Learn more.](#)

☒ I acknowledge that AWS CloudFormation might create IAM resources.

[Cancel](#) [Create](#)

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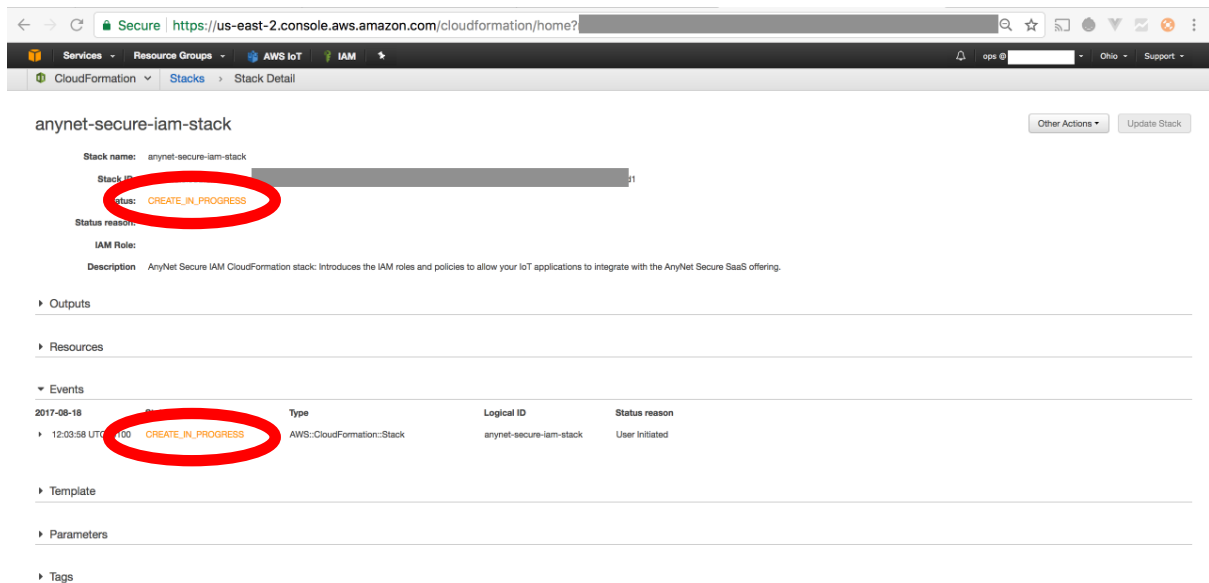
8. CloudFormation IAM Stack Detail

The CloudFormation Stacks > Stack Detail will appear.

Initially the status will display CREATE_IN_PROGRESS (in orange) as highlighted.

It will take a short time for the IAM stack to be processed.

To check if the process is complete refresh the page.



Secure | <https://us-east-2.console.aws.amazon.com/cloudformation/home?>

Services | Resource Groups | AWS IoT | IAM

CloudFormation | Stacks | Stack Detail

anynet-secure-iam-stack

Stack name: anynet-secure-iam-stack

Stack ID: [redacted]

Status: **CREATE_IN_PROGRESS**

Status reason: [redacted]

IAM Role: [redacted]

Description: AnyNet Secure IAM CloudFormation stack: Introduces the IAM roles and policies to allow your IoT applications to integrate with the AnyNet Secure SaaS offering.

Other Actions | Update Stack

Outputs

Resources

Events

Time	Type	Logical ID	Status reason
2017-08-18 12:03:58 UTC	AWS::CloudFormation::Stack	anynet-secure-iam-stack	User Initiated

Template

Parameters

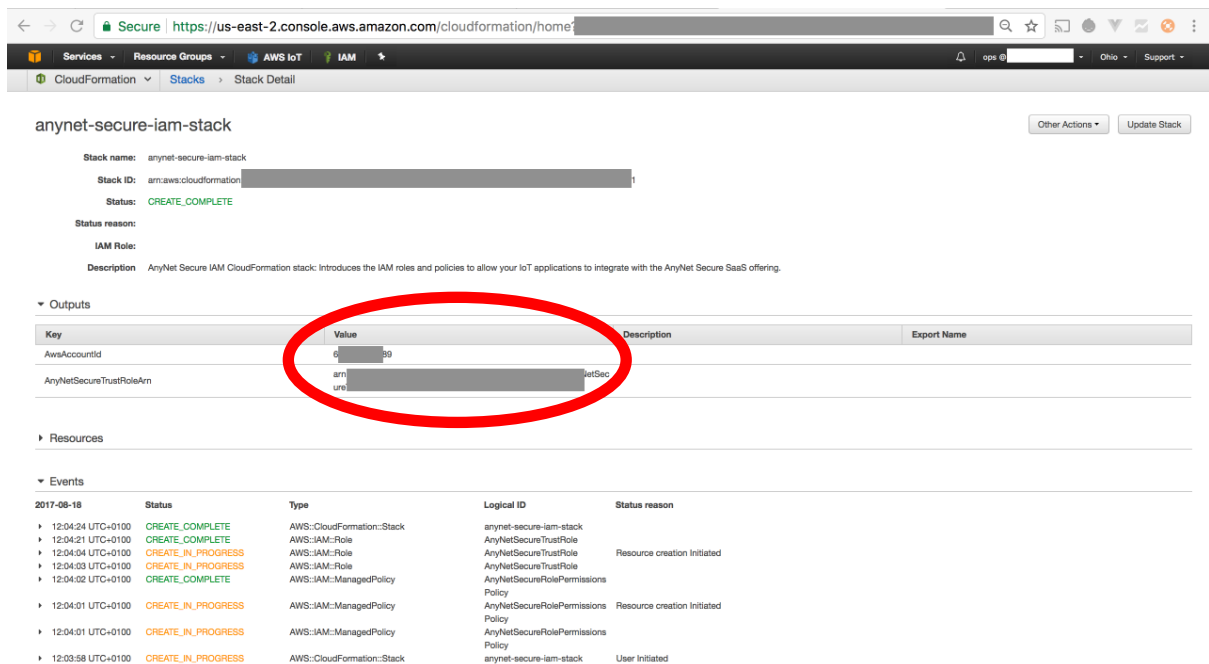
Tags



When the IAM stack has been processed and the page refreshed the status will display: CREATE_COMPLETE (in green). If this is not successful please contact Eseye using the details at the end of this guide.

Copy the highlighted Value found in the Outputs > Key > AnyNetSecureTrustRoleArn into the Welcome page Role Arn box.

Copy the highlighted Value found in the Outputs > Key > AwsAccountId into the Welcome page AWS Account Id box.



anynet-secure-iam-stack

Stack name: anynet-secure-iam-stack
Stack ID: arn:aws:cloudformation:us-east-2:123456789012:stack/anynet-secure-iam-stack/12345678-9012-3456-7890-123456789012
Status: CREATE_COMPLETE
Status reason:
IAM Role:
Description: AnyNet Secure IAM CloudFormation stack: Introduces the IAM roles and policies to allow your IoT applications to integrate with the AnyNet Secure SaaS offering.

▼ Outputs

Key	Value	Description	Export Name
AwsAccountId	123456789012		
AnyNetSecureTrustRoleArn	arn:aws:iam::123456789012:role/AnyNetSecureTrustRole		

▼ Resources

▼ Events

2017-08-18	Status	Type	Logical ID	Status reason
12:04:24 UTC+0100	CREATE_COMPLETE	AWS::CloudFormation::Stack	anynet-secure-iam-stack	
12:04:21 UTC+0100	CREATE_COMPLETE	AWS::IAM::Role	AnyNetSecureTrustRole	
12:04:04 UTC+0100	CREATE_IN_PROGRESS	AWS::IAM::Role	AnyNetSecureTrustRole	Resource creation Initiated
12:04:03 UTC+0100	CREATE_IN_PROGRESS	AWS::IAM::Role	AnyNetSecureTrustRole	
12:04:02 UTC+0100	CREATE_COMPLETE	AWS::IAM::ManagedPolicy	AnyNetSecureRolePermissionsPolicy	
12:04:01 UTC+0100	CREATE_IN_PROGRESS	AWS::IAM::ManagedPolicy	AnyNetSecureRolePermissionsPolicy	Resource creation Initiated
12:04:01 UTC+0100	CREATE_IN_PROGRESS	AWS::IAM::ManagedPolicy	AnyNetSecureRolePermissionsPolicy	
12:03:58 UTC+0100	CREATE_IN_PROGRESS	AWS::CloudFormation::Stack	anynet-secure-iam-stack	User Initiated

9. Welcome page part 2

On the 'Welcome' page fill the following boxes:

Role Arn: from the anynet-secure-iam-stack page above copy the Value found at Outputs > Key > AnyNetSecureTrustRoleArn.

AWS Account Id: from the anynet-secure-iam-stack page above copy the Value found in the Outputs > Key > AwsAccountId.

Region: select the region to match where your AWS cloud instance is located for your IoT deployments.

Click the 'launch' button at the bottom of the page.



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Welcome

Ahead of using your AnyNet Secure connectivity, we will need to provide some additional IAM permissions and Lambda functions within your AWS account.

We will be using [CloudFormation](#) to make these changes. You will be able to review the CloudFormation stack before any changes are made.

Please follow the steps below to get started with AnyNet Secure.

[Learn more](#)

First, open the AnyNet Secure CloudFormation stack	1
You'll notice our CloudFormation <i>template</i> is selected for you.	2
For the ExternalId please enter <code>{{ portfolio_id }}</code>	3
For the ChosenRegion please select the AWS Region you will be using for your IoT applications	4
Please select <i>I acknowledge that AWS CloudFormation might create IAM resources</i> and click Create	5
You should now see the CloudFormation Stacks page. You may need to click the <i>Refresh</i> button before anynet-secure-iam-stack appears in the list	6
Please select the anynet-secure-iam-stack and click the Outputs tab	7
You should see an AnyNetSecureTrustRoleArn key, please copy its associated value here. Similarly, please enter the value for the AwsAccountId key, here. Please can you also indicate the AWS Region where your IoT activity is taking place	8

Role Arn
AWS Account Id
Region

10. AnyNet Resources part 1

The 'AnyNet Secure Resources' page will appear.

Click on the 'AnyNet Secure CloudFormation resource stack' link. Ensure this opens in a new tab or window, you will need to refer back to this page to complete the process.



AnyNet Secure Resources

This is where we will be provisioning the AWS resources necessary for the AnyNet Secure connectivity.

The following instructions assume the creation of **anynet-secure-iam-stack** was successful. If this is not the case, please contact our [Support team](#).

First, open the AnyNet Secure CloudFormation resource stack	1
You'll notice our CloudFormation <i>template</i> is selected for you.	2
Please select <i>I acknowledge that AWS CloudFormation might create IAM resources</i> and click Create	3
Once you have successfully created anynet-secure-resource-stack , please click	4



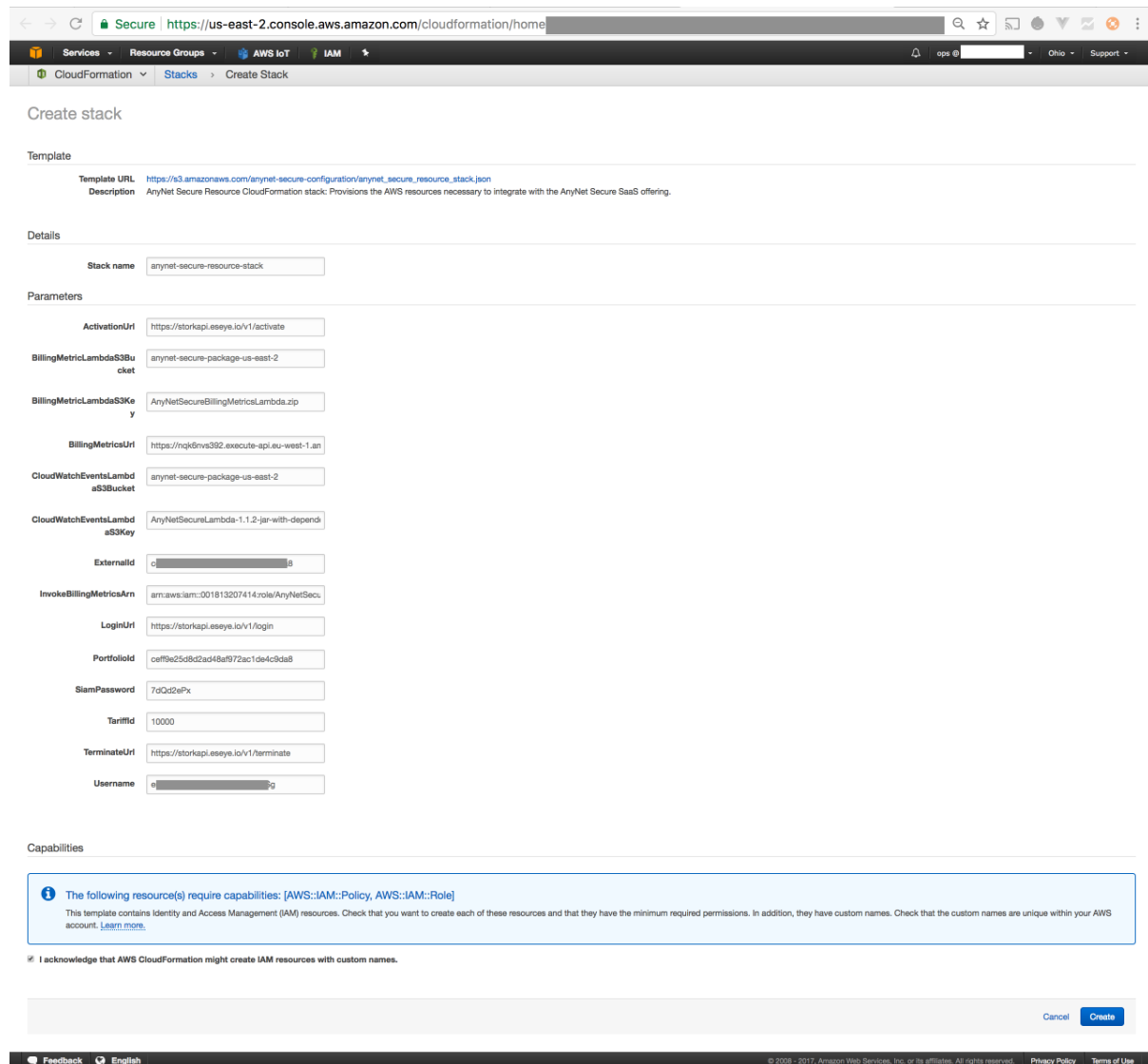
11. CloudFormation Resources Create Stack

The CloudFormation Create Stack page will appear.

All of the details are completed.

Under Capabilities check the box to agree to: 'I acknowledge that AWS CloudFormation might create IAM resources with custom names'.

Click the 'Create' button in the bottom right.



Create stack

Template

Template URL: https://s3.amazonaws.com/anynet-secure-configuration/anynet_secure_resource_stack.json

Description: AnyNet Secure Resource CloudFormation stack. Provisions the AWS resources necessary to integrate with the AnyNet Secure SaaS offering.

Details

Stack name: anynet-secure-resource-stack

Parameters

ActivationUri: <https://storkapi.eseye.io/v1/activate>

BillingMetricLambdaS3Bucket: anynet-secure-package-us-east-2

BillingMetricLambdaKey: AnyNetSecureBillingMetricsLambda.zip

BillingMetricsUri: <https://ngkdv392.execute-api.eu-west-1.amazonaws.com/>

CloudWatchEventsLambdaS3Bucket: anynet-secure-package-us-east-2

CloudWatchEventsLambdaS3Key: AnyNetSecureLambda-1.1.2-jar-with-dependencies

ExternalId: c[redacted]s

InvokeBillingMetricsArn: arn:aws:iam::001813207414:role/AnyNetSecureBillingMetrics

LoginUri: <https://storkapi.eseye.io/v1/login>

PortfolioId: ceffe258b2ad48a972ac1de4c3da8

SiamPassword: 7dQ2ePx

TariffId: 10000

TerminateUri: <https://storkapi.eseye.io/v1/terminate>

Username: c[redacted]g

Capabilities

The following resource(s) require capabilities: [AWS::IAM::Policy, AWS::IAM::Role]

This template contains Identity and Access Management (IAM) resources. Check that you want to create each of these resources and that they have the minimum required permissions. In addition, they have custom names. Check that the custom names are unique within your AWS account. [Learn more.](#)

☒ I acknowledge that AWS CloudFormation might create IAM resources with custom names.

Cancel Create



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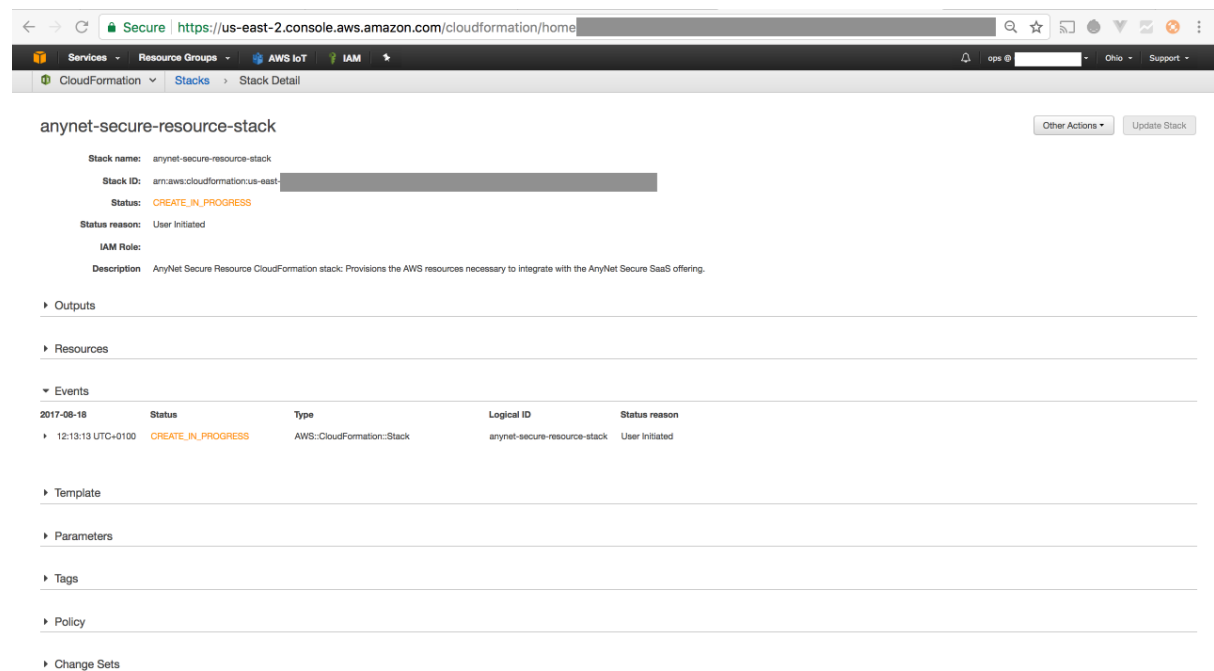
12. CloudFormation Resources Stack Detail

The CloudFormation Stacks > Stack Detail will appear.

Initially the status will display CREATE_IN_PROGRESS (in orange).

It will take a short time for the resource stack to be processed.

To check if the process is complete refresh the page.



The screenshot shows the AWS CloudFormation console for the 'anynet-secure-resource-stack'. The stack is in the 'CREATE_IN_PROGRESS' state. The console displays the following details:

- Stack name:** anynet-secure-resource-stack
- Stack ID:** arn:aws:cloudformation:us-east-1:123456789012:stack/anynet-secure-resource-stack/12345678-1234-1234-1234-123456789012
- Status:** CREATE_IN_PROGRESS
- Status reason:** User Initiated
- IAM Role:** CloudFormationRole
- Description:** AnyNet Secure Resource CloudFormation stack. Provisions the AWS resources necessary to integrate with the AnyNet Secure SaaS offering.

Below the details, there are sections for Outputs, Resources, Events, Template, Parameters, Tags, Policy, and Change Sets. The Events section shows a single event:

Timestamp	Status	Type	Logical ID	Status reason
2017-08-18 12:13:13 UTC+0100	CREATE_IN_PROGRESS	AWS::CloudFormation::Stack	any-net-secure-resource-stack	User Initiated

When the resource stack has been processed and the page refreshed the status will display: CREATE_COMPLETE (in green). If this is not successful please contact Eseye using the details at the end of this guide.



anynet-secure-resource-stack

Stack name: anynet-secure-resource-stack

Stack ID: arn:aws:cloudformation:eu-west-1:123456789012:stack/anynet-secure-resource-stack/99

Status: **CREATE_COMPLETE**

Status reason:

Termination protection: Disabled

IAM Role:

Description: AnyNet Secure Resource CloudFormation stack: Provisions the AWS resources necessary to integrate with the AnyNet Secure SaaS offering.

► Outputs

► Resources

▼ Events

2017-10-03	Status	Type	Logical ID	Status reason
18:21:49 UTC+0100	CREATE_COMPLETE	AWS::CloudFormation::Stack	anynet-secure-resource-stack	
18:21:47 UTC+0100	CREATE_COMPLETE	AWS::Lambda::Permission	AllowCloudWatchForTerminateSim	
18:21:47 UTC+0100	CREATE_COMPLETE	AWS::Lambda::Permission	AllowCloudWatchForPushCertificateToSim	
18:21:37 UTC+0100	CREATE_IN_PROGRESS	AWS::Lambda::Permission	AllowCloudWatchForTerminateSim	Resource creation Initiated
18:21:37 UTC+0100	CREATE_IN_PROGRESS	AWS::Lambda::Permission	AllowCloudWatchForPushCertificateToSim	Resource creation Initiated

13. AnyNet Secure Resources part 2

Switch windows to go back to the 'AnyNet Secure Resources' page.

Click the 'Completed' button at the bottom.

AnyNet Secure Resources

This is where we will be provisioning the AWS resources necessary for the AnyNet Secure connectivity.

The following instructions assume the creation of **anynet-secure-iam-stack** was successful. If this is not the case, please contact our [Support team](#).

- First, open the AnyNet Secure CloudFormation resource stack
- You'll notice our CloudFormation template is selected for you.
- Please select I acknowledge that AWS CloudFormation might create IAM resources and click **Create**
- Once you have successfully created **anynet-secure-resource-stack**, please click **Completed**



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14. Thank You

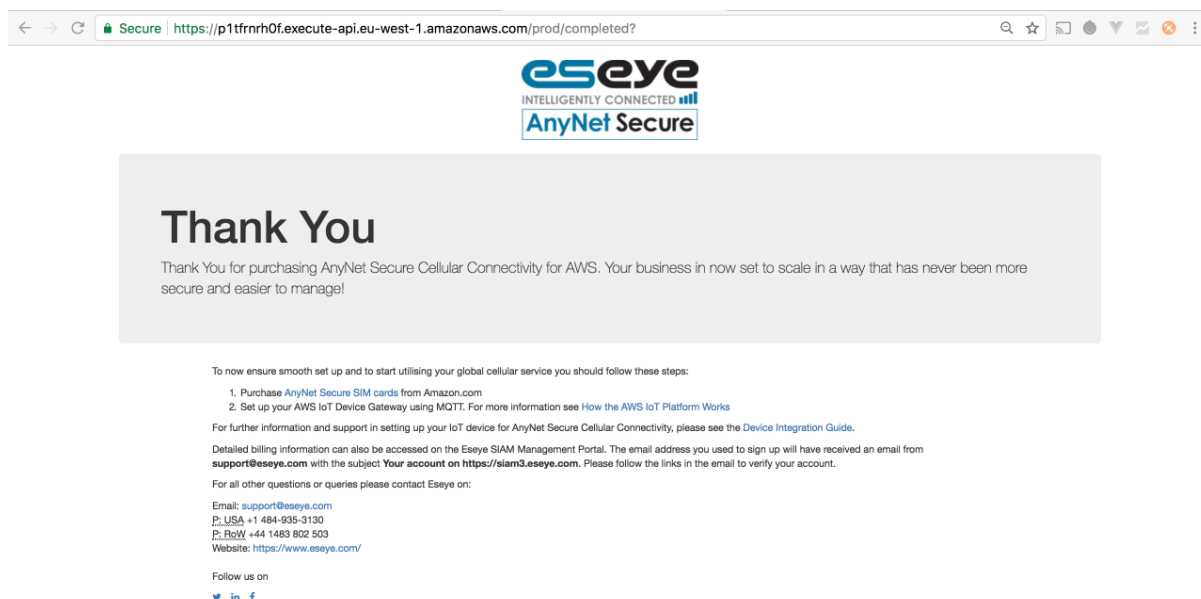
The Thank You page will appear

Your AWS account is now set up and ready for the AnyNet Secure Cellular Connectivity.

If you need to purchase SIM cards visit: <https://www.amazon.com/s?me=A2IVBJHFZB879Q>

For help to set up your AWS IoT Device Gateway visit: <https://aws.amazon.com/iot-platform/how-it-works/>

For help to set up your Device for AnyNet Secure Cellular Connectivity visit:
<https://www.eseye.com/wp-content/uploads/8424-AnyNet-Secure-Device-Integration-Guide.pdf>



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