
Micro Focus Security ArcSight SmartConnectors

SmartConnector for Amazon Web Services CloudWatch Configuration Guide

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Introduction

The Amazon CloudWatch Connector helps to gather all the event logs generated inside a specific VPC, normalizes the events to Common Event Format (CEF), and proceeds to send the data to an ArcSight's destination.

Amazon's Virtual Private Cloud (Amazon VPC) enables you to launch AWS resources into a virtual network that you've defined. This virtual network closely resembles a traditional network that you'd operate in your own data center, with the benefits of using the scalable infrastructure of AWS.

VPC Events

A VPC event indicates a change in your AWS environment. AWS resources can generate events when their state changes. For example, Amazon EC2 generates an event when the state of an EC2 instance changes from pending to running, and Amazon EC2 Auto Scaling generates events when it launches or terminates instances. AWS CloudTrail publishes events when you make API calls. You can set up scheduled events that are generated on a periodic basis.

For a list of services that generate events, and sample events from each service, see the [AWS documentation](#).

Related AWS Services

The following services are used in conjunction with CloudWatch Events:

AWS CloudFormation enables you to model and set up your AWS resources. You create a template that describes the AWS resources you want, and AWS CloudFormation takes care of provisioning and configuring those resources for you. You can use CloudWatch Events rules in your AWS CloudFormation templates. For more information, see the [AWS documentation](#).

AWS Identity and Access Management (IAM) helps you securely control access to AWS resources for your users. Use IAM to control who can use your AWS resources (authentication), what resources they can use, and how they can use them (authorization). For more information, see the [AWS documentation](#).

Amazon Kinesis Data Streams enables rapid and nearly continuous data intake and aggregation. The type of data used includes IT infrastructure log data, application logs, social media, market data feeds, and web clickstream data. Because the response time for the data intake and processing is in real time, processing is typically lightweight. For more information, see the [AWS documentation](#).

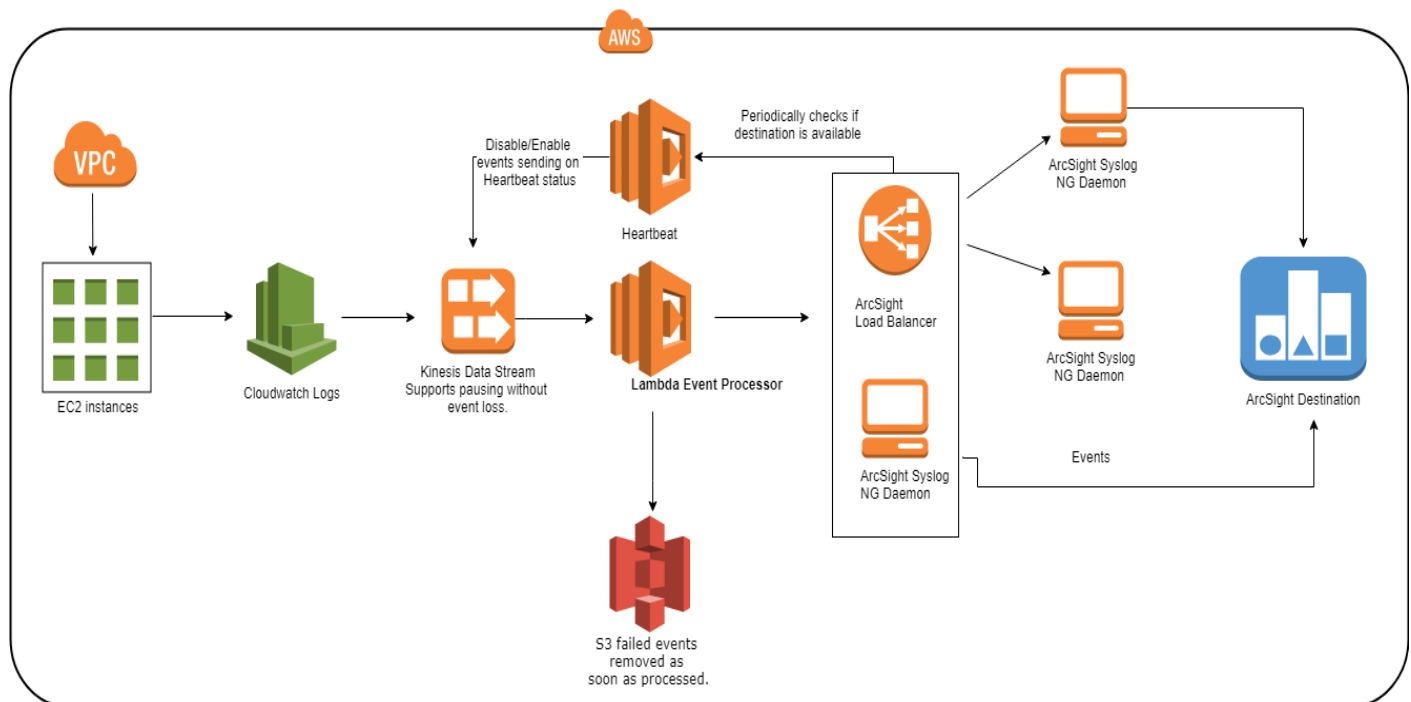
AWS Lambda enables you to build applications that respond quickly to new information. Upload your application code as Lambda functions and Lambda runs your code on high-availability compute infrastructure. Lambda performs all the administration of the compute resources, including server and

operating system maintenance, capacity provisioning, automatic scaling, code and security patch deployment, and code monitoring and logging. For more information, see the [AWS documentation](#).

S3 is cloud storage for the internet. To upload your data (photos, videos, documents etc.), you first create a bucket in one of the AWS Regions. You can then upload any number of objects to the bucket. For more information, see the [AWS Documentation](#).

Understanding Data Collection

The following diagram provides a high-level overview of how the AWS CloudWatch Connector collects and sends data to ArcSight's destination.



The AWS CloudWatch Connector gathers events from a specific VPC.

- **AWS VPC Logs**

- **Flow Logs:** Starting point where all the events flow to Cloud Watch Logs (subscription).
- **Cloud Watch Logs** A specific Log Group receives the events from the Flow Logs/.

Note: There is a Log Stream for each EC2 instance that belongs to the VPC.

The events continue flowing from the Cloud Watch Logs log group to Kinesis Data Stream (subscription).

The events flow from Kinesis to Lambda Event Processor for parsing, in case of communication issues with the ArcSight destination (SmartConnector or Load Balancer), the Lambda Event Processor backs up the events to S3.

Once the events are parsed and communication is established with the ArcSight receiver (Syslog NG Daemon SmartConnector or the ArcSight Load Balancer), the events are sent to either of them and finally to a different destination, for example: ArcSight Logger, ESM, CEF file, etc.

Lambda Functions

Lambda Monitoring continues to monitor the status of the destination (like a cron) and disables/enables the Kinesis subscription to Lambda Event Processing, based on whether the destination is accessible or not.

Lambda Event Processing is triggered automatically along with a batch of events, whenever, new events are available. The function decodes the batch, loads it into the memory in plain text, parses and processes the events contained in that object.

Certified Platforms for AWS CloudWatch Deployment

The installer requires an EC2 instance with Amazon Linux 2.

Prerequisites

Make sure to meet the following pre-requisites prior the deployment.

1. Create a private subnet, see ["Configuring an Amazon Virtual Private Cloud \(VPC\) and Subnets " on page 11](#)
2. Create or select a S3 bucket.

The location must be the one that the AWS CloudWatch Connector uses to complete the deployment. The external.properties file, the ArcSight SmartConnector or the Load Balancer certificate, and the eventprocessor.jar are stored in your S3 bucket. To create a S3 bucket, see, [AWS Documentation](#).

3. Upload your Syslog NG Daemon Connector or Load Balancer certificate to your S3 bucket.
The certificate is located in the installation folder of the SmartConnector or the Load Balancer. For connectors, the certificate is in \$INSTALLATIONFOLDER/current/user/agent/remote_management.p12. For Load Balancer, the certificate is in \$INSTALLATIONFOLDER/current/user/loadbalancer/loadbalancer.p12.
4. Create or select a folder on the selected bucket to store fault tolerance files.
5. Create a properties file and upload it to the S3 bucket. The location of this file is required for deployment. Follow the template to create the file:

```
##
## External properties file to upload to s3
##
#
# Valid properties
#
#Arcsight connector host name or ip address, required parameter
host.name=0.0.0.0
#
#Arcsight connector port number, required parameter
port.number=9999
#
#Arcsight connector certificate bucket name in s3, required parameter
certificate.bucket=bucket_name
#
#Arcsight connector certificate key location in s3, required parameter
certificate.key=path/to/file
#
```

```

#Arcsight connector certificate password, required parameter
certificate.password=password
#
#Number of retries if the destination does not respond,
#if de destination stills without responding
#the mechanism of transport.cache will be activated
send.retries=3
#
#Arcsight connector transport cache bucket name in s3, required parameter
transport.cache.bucket=bucket_name
#
#Arcsight connector transport cache location in s3, required parameter
transport.cache.directory=path/to/file
#
#Log Level changes the log level to the specified level
#value can be any of: info debug error all warn fatal "trace" "off" or
#case insensitive value
log.level=info debug error all warn fatal trace off

```

The port must be same used for the ArcSight Syslog NG Daemon SmartConnector or the ArcSight Load Balancer. This value is also required during deployment.

The path of the certificate and its password uploaded in step 3 must be added to the [properties.file]. The file should look like this:

```

host.name=18.235.121.137
port.number=1514
certificate.bucket=vlc-s3-bucket
certificate.key=cert/remote_management.p12
certificate.password=changeit
send.retries=3
transport.cache.bucket=vlc-s3-bucket
transport.cache.directory=transport.cache
log.level=info

```

6. [AWS Account Setup](#)

AWS Account Setup

In order to install the AWS Connector you require an AWS account, for more information, see [AWS Documentation](#). Once given a main AWS account, you may use with your AWS CloudWatch Connector. Or, you may log in to AWS with your main AWS account, create a new user, and give this user privileges to deploy and work with the AWS CloudWatch Connector.

1. Create a new policy.
2. From the AWS Dashboard, select **AWS Cloudwatch Connector**.
3. Select **Policies**.
4. Select **Create Policy**.
5. Go to the **JSON** tab.
6. From the JSON editor, paste the following JSON document:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "VisualEditor0",
      "Effect": "Allow",
      "Action": [
        "cloudformation:DescribeStacks",
        "cloudformation:UpdateStack",
        "cloudformation:CreateStack",
        "cloudformation>DeleteStack",
        "cloudformation:DescribeStackResources"
      ],
      "Resource": [
        "arn:aws:cloudformation:*:*:stack/*/*"
      ]
    },
    {
      "Sid": "VisualEditor1",
      "Effect": "Allow",
      "Action": [
        "cloudformation:ListStacks"
      ],
      "Resource": "*"
    }
  ]
}
```

```
}
]
}
```

7. Select **Review Policy**.
8. Save the new Policy.
 - a. On the field name, enter CloudFormationBasicExecution.
 - b. Select **Create Policy**.
 - c. If created correctly, the message "CloudFormationBasicExecution has been created" is displayed.
9. Create a new user.
 - a. On the AWS Dashboard, select IAM
 - b. Select **Users**.
 - c. Select **Add User**.
 - d. On **User Name**, enter the new user name.
 - e. Go to **Access Type** and select **Programmatic Access** and **AWS Management Console Access**.
 - f. Choose your Console password.
 - i. Select **Auto Generated Password** and AWS creates a random password.
 - ii. Select **Custom password** and choose your custom password.
It must adhere to the account password policy.
 - iii. Users can change the password on the first time login. For more information, see, Require Password Reset.
 - g. Select **Next**.
You are taken to **Permissions**.
 - h. Select **Attach existing policies directly**.
 - i. Click the checkboxes of the following policies:
 - i. CloudFormationBasicExecution created above, and the following AWS managed policies
 - ii. AmazonEC2FullAccess
 - iii. AWSLambdaFullAccess
 - iv. IAMFullAccess
 - v. AmazonS3FullAccess
 - vi. AmazonKinesisFullAccess
 - vii. CloudWatchLogsFullAccess
 - viii. AmazonVPCFullAccess
 - ix. CloudWatchEventsFullAccess
 - j. Go to **Tags < Review < Create User**.

A message is displayed, indicating the user creation was successful.

- k. Write down the **Access Key ID** and the **Secret Access Key**. They are required for deployment.

Configuring an Amazon Virtual Private Cloud (VPC) and Subnets

To configure the existing VPC, you must create a private subnet and associate it with the lambda function.

A private subnet is a subnet with a route table pointing to a Nat gateway.

Elements required:

- A VPC
- A public subnet, a public subnet is a subnet associated with an internet gateway.

To create a public subnet:

1. Create an internet gateway if you don't have one.
2. From the VPC console, go to the navigation pane and choose Subnets.
3. To create a new subnet, choose Create Subnet. Otherwise, choose an existing subnet.
4. Choose the Route Table tab, and then choose Edit.
5. From the Change to: drop-down menu, choose an appropriate route table.

For a public subnet, the default route should point to an internet gateway.

To create a NAT gateway:

1. From the VPC console, go to the navigation panel, choose NAT Gateways, and then choose Create NAT Gateway.
2. In the Subnet field, choose the public subnet already created
3. In the Elastic IP Allocation ID field, choose an existing Elastic IP address, or select Create New EIP, and then choose Create a NAT Gateway.

To create a route table

1. In the VPC console, choose Route Tables, and then choose Create Route Table.
2. In the Name tag field, enter a name that is meaningful to you, select the VPC drop-down menu and choose your VPC, and then choose Yes, Create
3. Select the new route table, and then choose the Routes tab.
4. Choose Edit, and then choose Add another route.

Destination: 0.0.0.0/0

Target: private subnet with the NAT gateway created in the previous step

Opening Ports

You must ensure that the ports on the server on which you installed the Syslog NG Daemon SmartConnector is accessible from AWS. The procedure to open ports varies based on whether you have installed Syslog NG Daemon SmartConnector on a virtual machine or not.

Opening Ports on a Non-Virtual Machine

If you installed Syslog NG Daemon SmartConnector on a physical, non-virtual machine, ensure that the ports on which you installed it are accessible to AWS.

Opening Ports on a Virtual Machine

If you have installed the Syslog NG Daemon SmartConnector on a virtual machine in AWS, ensure that the ports on which you installed Syslog NG Daemon SmartConnector are open in both AWS and the virtual machine.

To open inbound ports on AWS:

1. Log in to AWS as a user with administrator privileges.
2. Go to **Services** and select **EC2**.
3. Select **Instances**.
4. Choose the EC2 instance to be edited.
5. Click **Launch-Wizard**.
6. Edit the **Inbound** and **Outbound** fields as required.

To open ports in the virtual server:

1. Log in to the virtual AWS machine.
2. Open the AWS Firewall.
3. Click Inbound **Rules** < **New Rule** < **Port** < **Next** < **TCP** < **Specific local ports**
4. Enter the same port or port range on which you installed the Syslog NG Daemon SmartConnector.
5. Click **Next** < **Allow the connection** < **Next** < **Profile** < **Next**.
6. Name the rule.
7. Click Finish.

Note: Linux EC2 instances are not required to follow these steps, only Windows instances.

Deploying the Connector

About

This section provides information about deploying the AWS CloudWatch Connector to collect and forward events from AWS CloudWatch to an ArcSight Syslog NG Daemon SmartConnector or to an ArcSight Load Balancer, then the events can be sent to an ArcSight destination.

Procedure

AWS Credentials Configuration

The first time the installer.sh is executed, the AWS credentials must be entered. If the installer was previously executed on the EC2 instance, the main menu pops, so you can update the AWS credentials.

1. Provide execution rights to all the .sh files.
2. Execute the "installer.sh" and enter your AWS Access Key ID.
3. Enter your AWS Secret Access Key.

If invalid, a message is displayed, indicating to enter the AWS Secret Access Key again.

4. Select the region.

You are taken to the main screen. If required, your credentials and the region can be updated.

Deployment

1. From the main menu, select **Deploy**.
S3 buckets are scanned for analysis.
2. Name your stack. AWS resources created during deployment can be found under this name.

Note: Stack names must be unique on each region and they must have a valid format, if the Stack Name already exists, or if it does not meet the format criteria, an error message is displayed.

3. Enter the **Log Groups** names. Every log group is monitored and then sent to the event processing Lambda.
Log Groups must exist in the current Region and they cannot be previously subscribed to another service.
4. Select the VPC in which the AWS CloudWatch connector should gather the events.
5. Select the S3 bucket in which the event processing jar and properties file are located.

6. Enter the path for the jar key.

The format is: folderName/subFolderName/jarKeyName.jar

Note: If an invalid format is entered, an error message is displayed.

7. Enter the external properties file.

The format is: folderName/subFolderName/jarKeyName.jar

8. Select the private subnet created previously, for more information, see ["Prerequisites" on page 7](#).

9. Enter the port number. It must be the same port as in properties file.

You are taken to the Deployment summary screen.

10. Click **Yes** if the values are correct.

You are taken to the Loading screen. When completed, a message is displayed, confirming the deployment was successful.

Updating the Connector

The update functionality allows the user to change some parameters or data entered at the moment of deployment. For example, once the user has selected the Stack, the script allows to update the VPC selected, the S3 bucket, the path for the jar key and jar key name, the path and the properties file name, the Subnet and the port number.

1. From the main menu, select **Update**.

S3 buckets are scanned for analysis.

2. Select the Stack you want to update.

3. Enter the **Log Groups** names. Every log group is monitored and then sent to the event processing Lambda.

4. Select a VPC.

5. Select an S3.

6. Update the jar key path/name.

7. Update external properties key path/name.

8. Choose a Subnet.

9. Update the port number.

10. Click **Yes**, if the values are correct.

You are taken to the Update Status screen. When completed, a message is displayed, confirming the update was successful.

Post-Deployment Configurations

Running Lambda Functions in High Availability

When the subnet runs out of IP addresses or if the availability zone goes down, AWS displays a warning.

You can run functions in high availability mode.

1. From **Services < Network < Lambda < Functions**.
2. Select the Lambda Function created.
3. Click **Network**.

For more information, see [AWS Documentation](#) .

Removing Lambda's Subnet Warning

If the subnet is only used for Lambda events, open a browser. It is very unlikely for the subnet to run out of IP addresses since it is only used by two of Lambda Functions in the stack (CloudwatchConnectorEventProcessing and Hearthbeat).

If an availability zone goes down and cannot communicate with the Connector, the events are not sent to the destination, and instead, they are stored in a S3 bucket. The moment, the availability zones comes back online, the Lambda Event Processing function processes these events first, before processing any new events.

Network

Virtual Private Cloud (VPC) [Info](#)

Choose a VPC for your function to access.

Subnets

Select the VPC subnets for Lambda to use to set up your VPC configuration. Format: "subnet-id (cidr-block) | az name-tag".

subnet- (cidr-block) | us-east-2b

⚠ We recommend that you choose at least 2 subnets for Lambda to run your functions in high availability mode.

Security groups

Choose the VPC security groups for Lambda to use to set up your VPC configuration. Format: "sg-id (sg-name) | name-tag". The table below shows the inbound and outbound rules for the security groups that you chose.

sg- (sg-name) |

i When you enable a VPC, your Lambda function loses default internet access. **If you require external internet access for your function, make sure that your security group allows outbound connections and that your VPC has a NAT gateway.**

To add multiple subnets to Lambda functions, manually:

1. Create a new private Subnet in your VPC.
The destination of the new private subnet cannot be located in the same availability zone in which your original subnet was created.
2. Identify the Lambda functions from your stack STACKNAME-CloudwatchConnectorEventProcessing and STACKNAME-Heartbeat.
3. From each Lambda function, go to **Network** and select your recently created subnet from the dropdown.
4. Click **Save**, the warning should not be displayed.

Upgrading the Connector

The upgrade allows to do a binary upgrade of the AWS CloudWatch connector. A binary upgrade, enables you to continue using the components created during deployment. Your custom settings should not be affected.

It's necessary to update the path or the name of the jar key that contains the binary changes.

To upgrade the connector:

1. Run the installer.sh .
2. Select the **Stack** you are upgrading.
The script returns the data with the preferences entered during installation or a previous update.
3. A confirmation screen pops, click **Yes**.
The "Enter a Jar Key" screen is displayed.
4. Update the path and/or the name of the jar key and confirm your changes. You are taken to the Update Status Screen. When completed, a message is displayed, confirming the update was successful.

Note: You may update other values. if necessary.

Undeploying the Connector

To undeploy the connector:

1. From the main menu, select **Undeploy**.
2. Select the Stack to be undeployed.
3. Click **Yes**, to confirm undeployment.
You are taken to the Deleting Network Interfaces screen and next, the undeployment progress is shown. When completed, a message is displayed, confirming the undeployment was successful.

Configuring the Load Balancer as a Destination

In environments where the event load is more than what can be handled by a single Syslog NG Daemon SmartConnector, you can configure Load Balancer to handle large event loads. For more information about configuring Load Balancer, see *ArcSight Load Balancer's* documentation.

Configuring Route 53

Prerequisites

- One or more public domains.

About

You can configure **Amazon Route 53** and log information about queries that Route 53 receives, such as :

- Requested main domains or subdomains
- Date and time of a request
- DNS record types (such as A or AAAA)
- Route 53 edge locations responding to a DNS query
- A DNS response code, such as **NoError** or **ServFail**

Query Logging

Query logs contain queries that DNS resolvers forward to Route 53. If a DNS resolver caches a response of a query, for example, the IP address of a Load Balancer, the resolver continues to return the cached response without forwarding the query to Route 53, until the TTL of the record expires.

Query logs might contain the information of one single query, out of every several thousand queries submitted to DNS resolvers. This depends on the DNS queries submitted from one single domain name or a subdomain name, the resolvers being used, and the TTL (time to live) of the record. For more information about how DNS works, see the [AWS Documentation](#).

An example of a Route 53 Query Log looks like this:

```
1.0 2017-12-13T08:15:50.235Z Z123412341234 example.com AAAA NOERROR TCP IAD12
192.168.3.1 192.168.222.0/24

1.0 2017-12-13T08:16:03.983Z Z123412341234 example.com ANY NOERROR UDP FRA6
2001:db8::1234 2001:db8:abcd::/48
```

```
1.0 2017-12-13T08:15:50.342Z Z123412341234 bad.example.com A NXDOMAIN UDP
IAD12 192.168.3.1 192.168.111.0/24

1.0 2017-12-13T08:16:05.744Z Z123412341234 txt.example.com TXT NOERROR UDP
JFK5 192.168.1.2 -
```

Using Amazon CloudWatch to Access DNS Query Logs

Amazon Route 53 sends query logs directly to CloudWatch Logs. The logs are not accessible through Route 53. Instead, you use CloudWatch Logs to view logs in near real-time, search and filter data, and export logs to Amazon S3.

Route 53 creates one CloudWatch Logs log stream for each Route 53 edge location that responds to DNS queries of the specified hosted zone and sends query logs to the applicable log stream.

The format of each log stream name is hosted-zone-id/edge-location-ID, for example, Z1D633PJN98FT9/DFW3.

Each edge location is identified by a three-letter code and an arbitrarily assigned number, for example, DFW3. The three-letter code typically corresponds with the International Air Transport Association airport code for an airport near the edge location. (These abbreviations might change in the future.) For a list of edge locations, see [Route 53 Product Details](#).

Procedure

To Configure Query Logging

1. Sign in to the AWS Management Console and open the Route 53 console at <https://console.aws.amazon.com/route53/>
2. From **Navigation**, click **Hosted Zones**.
3. On the hosted zone you are configuring, click the **Radio** button.
4. In **Hosted Zone Details**, select **Configure Query Logging**.
5. From **Send Query Logs to**, select one of the following options:
 - a. New Log Group in US East (North Virginia)
 - b. Existing Log Group in US East (North Virginia)

If you want to configure this feature for multiple hosted zones, we recommend you to use a consistent prefix for every log group, for example: /aws/route53/hosted-zone-name. Resource policies grant permissions to Route 53 and let users publish logs to the Log Group. The maximum number of resource policies that you can create for an AWS account is 10. And, by using a consistent prefix in your Log Group names, you can choose one resource policy for all your Route 53 hosted zones.

Note: Log Groups must be in the US East (North Virginia) Region.

6. If choosing, **Existing Log Group in US East (North Virginia)**, enter the **Existing Log Group Name** and click **Next**. If not, go to step 7.

Route 53 can use the same permissions in any existing Resource Policy, you do not need to choose a specific Resource Policy.

- a. Click **Test** to determine if the existing resource policies grant the permissions required for Route 53 to publish logs to the log group. If the test fails, users may follow one of these options:
 - i. Continue to step 7, to create a New Resource Policy, or:
 - ii. Click **Edit** and continue to change the value **Log groups that the resource policy applies to**. Specify the name of a CloudWatch Logs log group, for example `/aws/route53/example.com`, or a value that includes the current log group, like, `/aws/route53/*`. Next, move on to step 8.

Note: Users can use the wildcard character (*) to replace 0 or to more characters in the name of the log group.

7. To create a **New Log Group in US East (North Virginia)**:

- a. Enter the **Resource Policy Name**.
- b. Enter a valid value in **Log groups that the resource policy applies to**.

The name of the Log Group is at the top of the current page.

- c. Click **Create Policy and test permissions** to determine if the existing resource policies grant the permissions required for Route 53 to publish logs to the log group. If the error "Resource limit exceeded" pops:
 - i. Click **Edit** in one of the existing resource policies.
 - ii. Change the value **Log groups that the resource policy applies to**. Specify the name of a log group, for example `/aws/route53/example.com`, or a value that includes the current log group, like, `/aws/route53/*`.
To view the settings of a Resource Policy, click the arrow on the left side of the resource policy name.
 - iii. Click **Save policy and test permissions**.

Note: Users can use the wildcard character (*) to replace 0 or more characters in the name of the log group.

8. Select **Create Query Logging Config**.

To Stop Query Logging:

Users can delete query logging configurations and Amazon Route 53 will no longer send query logs to CloudWatch Logs.

1. Sign in to the **AWS Management Console**.
2. Open the [Route 53 Console](#).
3. From **Navigation**, click **Hosted zones**.
4. Go to the hosted zone you are deleting the query logging from and click the **Radio** button.
5. From **Hosted Zone Details** < **Query Logging**, click **Delete**.
6. Click **Confirm** to delete the query logging configuration.

For more information, see [AWS documentation](#).

Map Override

About

Internal maps can be overridden with custom maps. The map format is described in the map file format and it looks like this:

```
# CEF fields
# any alphanumeric value will be included in the CEF result
# any value that starts with @ and followed by a number 0-13
# will be replaced with the corresponding flow log field value in the CEF
result
# HEADER fields, all fields start with Upper case
DeviceVendor=Arcsight
DeviceProduct=Cloudwatch Connector
DeviceVersion=@0DeviceEventClassID=CW
Name=AWS Flow Log EventSeverity=0
# EXTENSION fields, all fields in lower case
duid=@1
deviceInboudInterface=@2
src=@3
dst=@4
spt=@5
dpt=@6
proto=@7
cn=@8
```

```
in=@9
```

```
start=@10
```

```
end=@11
```

```
act=@12
```

```
cs=@13
```

When users create map files, these can either be saved as VPC Flow Logs or Route 53 Logs.

Map category	File name
VPC Flow logs	vpc.map
Route53 logs	route53.map

Note: If a map file does not have the correct name, it cannot be recognized.

Procedure

To override an internal map:

1. Create a custom map file and upload it to an s3 bucket and a directory dedicated to map overrides.

The s3 bucket and the directory are defined in the properties file, for more information, see ["Prerequisites" on page 7](#)

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Feedback on Configuration Guide (SmartConnectors 7.12.0)

Just add your feedback to the email and click send.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to arcsight_doc@microfocus.com.

We appreciate your feedback!