Capturing Amazon.com Order Failures

Revision Number	Date	Author	Comments
1	08/14/2019	Varun	

Document Purpose: -

- Standardise capture of order failures reported by Amazon.com.
- Capturing these failures into AWS-SES
- Loading the failures into AWS-S3
- Mouting AWS-S3 on UBUNTU
- Feeding moutned S3 to SplunkCloud.com
- Building monitoring dashboard for Order failures.

Sample Failure Notification From Amazon.com:-

amazon vendor central

Sign In

Hello,

We recently received an Electronic Data Interchange (EDI) Advance ShipmentNotification document from you on 2019-07-02T23:48:14Z. While processing the file, we found compliance issues that need your attention.

Please review the following information below and take any required actions.

=== Metadata of the EDI Message === FILE 1832553871fwc_1_844 TransmissionControlNumber 000004577

PurchaseOrderNumber 7XXCIW5Q

=== Required Action(s): ===

Issue #1

Severity: IMMEDIATE_CORRECTION

Description:

The ASN '0012747902' (BSN02) has excess item quantities for the following PO-ASIN combinations: 'PO 7XXCIW5Q: B00L1QITBY'. Amazon expects that quantity mentioned in the ASN should not be more than the difference of confirmed quantity and quantities submitted across previous ASNs. To review the quantities mentioned on previous ASNs please refer to VENDOR CENTRAL > SHIPMENTS > VIEW RECENT SHIPMENTS. It lists the ASNs submitted by you in last 90 days and you can search on the webpage using the PO# to find the previously submitted ASN for the same PO.

Actions:

Please review the ASN to ensure that the quantities are accurate and in accordance with the shipment. If they are accurate there is no action required on your end. If you notice a mismatch, please submit an updated EDI 856 with corrected line-item quantities.

Best Regards, amazon.com

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1 Create Domain Aws-Route53



Amazon Route 53

You can use Amazon Route 53 to register new domains, transfer existing domains, route traffic for your domains to your AWS and external resources, and monitor the health of your resources.



DNS management

If you already have a domain name, such as example.com, Route 53 can tell the Domain Name System (DNS) where on the Internet to find web servers, mail servers, and other resources for your domain.

Get started now



Traffic management

Route 53 traffic flow provides a visual tool that you can us to create and update sophisticated routing policies to route end users to multiple endpoints for your application.

Get started now

Availability monitoring

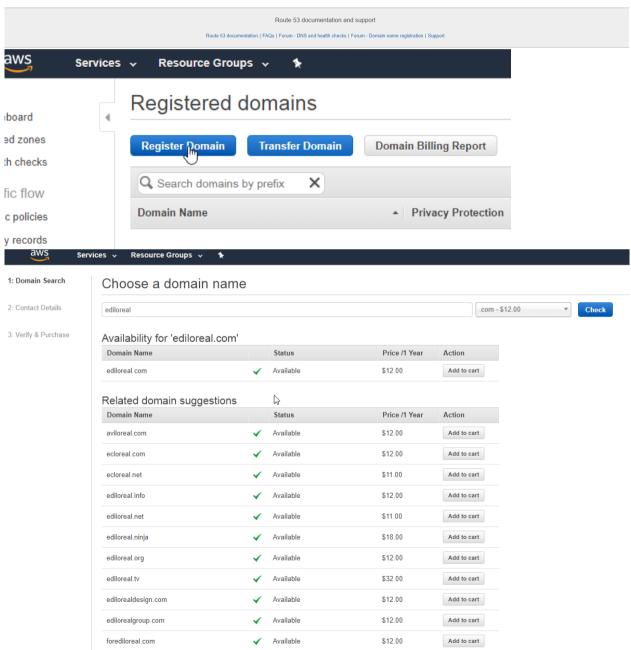
Route 53 can monitor the health and performance of you application as well as your web servers and other resources. Route 53 can also redirect traffic to healthy resources.

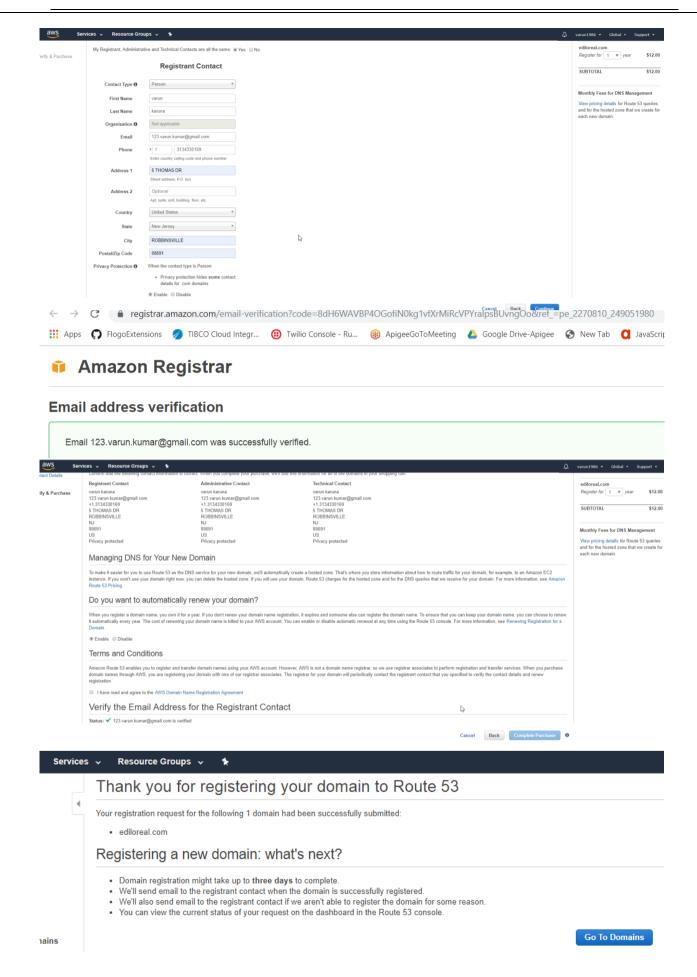


Domain registratio

If you need a domain name, you can find an available name and register it by using Route 53. You can also make Route 53 the registrar for existing domains that you registered with other registrars.

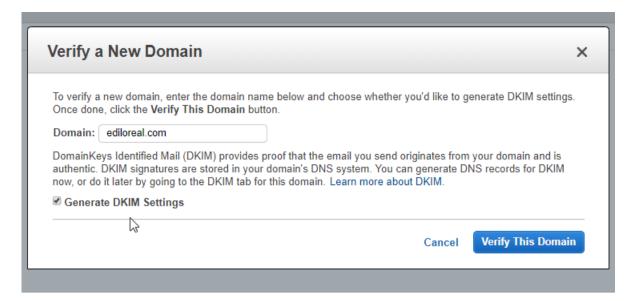
Get started now





2 Domain Verification AWS-SES

Add the domain to aws ses. Ensure the domain gets verified.





Verify a New Domain





The domain editoreal.com has been added to the list of Verified Identities with a Status of "pending verification". Further action is needed to complete verification of this domain. See details below.

To complete verification of ediloreal.com, you must add the following TXT record to the domain's DNS settings:

Domain Verification Record



Name	Туре	Value
_amazonses.ediloreal.com	TXT	5Kygmekz5nG4KM3q3HbeZzC9a0hx52mIASFPrtBnyHc=

To enable DKIM signing for your domain (optional but recommended), you must add the following CNAME records to your domain's DNS settings:

DKIM Record Set 6



Name	Туре	Value	
snfr7k6yuk22t5culojpryqh6kir3i3jdomainkey. ediloreal.com	CNAME	snfr7k6yuk22t5culojpryqh6kir3i3j.dkim.amazonses.com	Â
lyy6ivxnsc432khe3q5pzykejbwjhyii. _domainkey.ediloreal.com	CNAME	lyy6ivxnsc432khe3q5pzykejbwjhyii.dkim.amazonses.com	-

Download Record Set as CSV >>

The following additional step applies to email receiving ONLY:

To automatically route your domain's incoming mail to Amazon SES, add the following MX record to your domain's DNS settings:

Email Receiving Record



Name	Туре	Value
ediloreal.com	MX	10 inbound-smtp.us-east-1.amazonaws.com

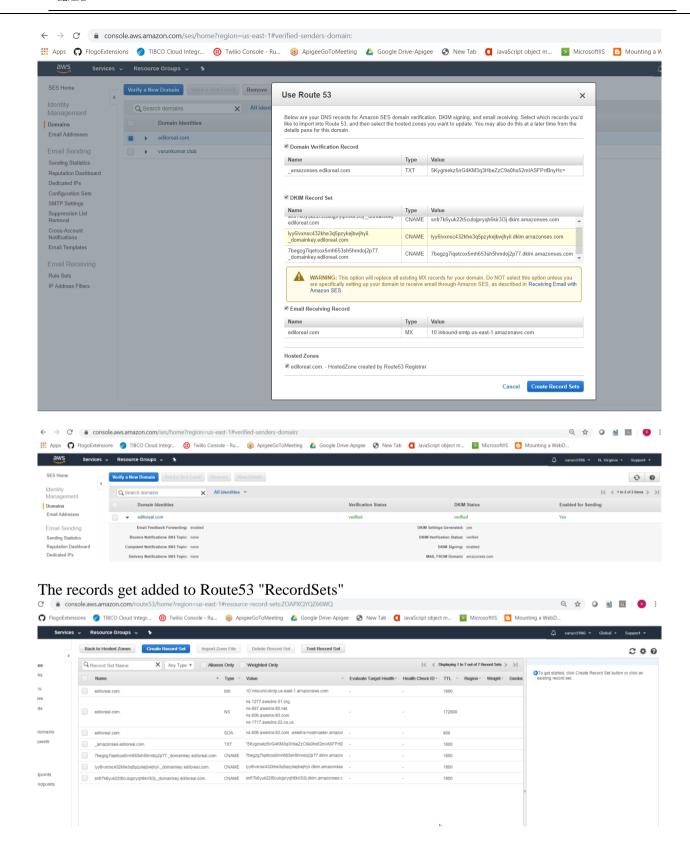
Amazon Route 53 Customers

Because you are an Amazon Route 53 customer, you can create the new records automatically.

Close

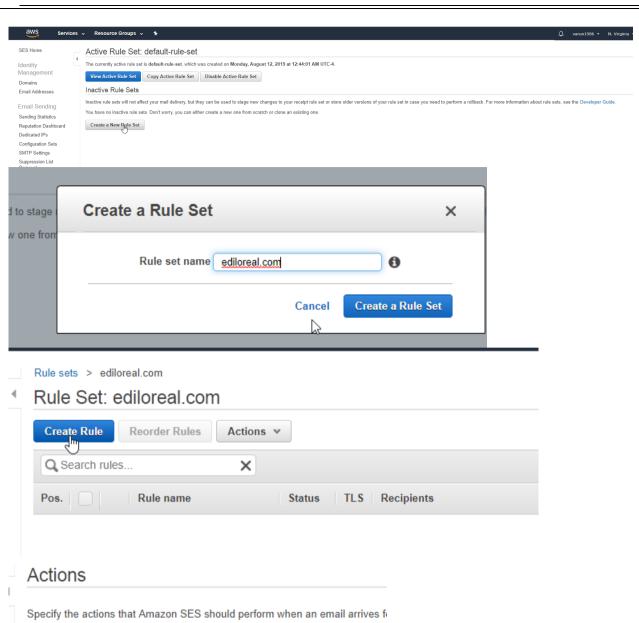
Use Route 53

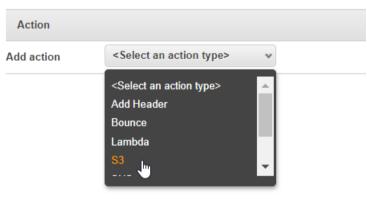
_amazonses.ediloreal.com	TXT	5Kygmekz5nG4KM3q3HbeZzC9a0hx52mIASFPrtBnyHc=
snfr7k6yuk22t5culojpryqh6kir3i3jdomainkey.ediloreal.com	CNAME	snfr7k6yuk22t5culojpryqh6kir3i3j.dkim.amazonses.com
lyy6ivxnsc432khe3q5pzykejbwjhyiidomainkey.ediloreal.com	CNAME	lyy6ivxnsc432khe3q5pzykejbwjhyii.dkim.amazonses.com
7begzg7iqetcox5mh653sh5hmdoj2p77domainkey.ediloreal.com	CNAME	7begzg7iqetcox5mh653sh5hmdoj2p77.dkim.amazonses.com
ediloreal.com	MX	10 inbound-smtp.us-east-1.amazonaws.com

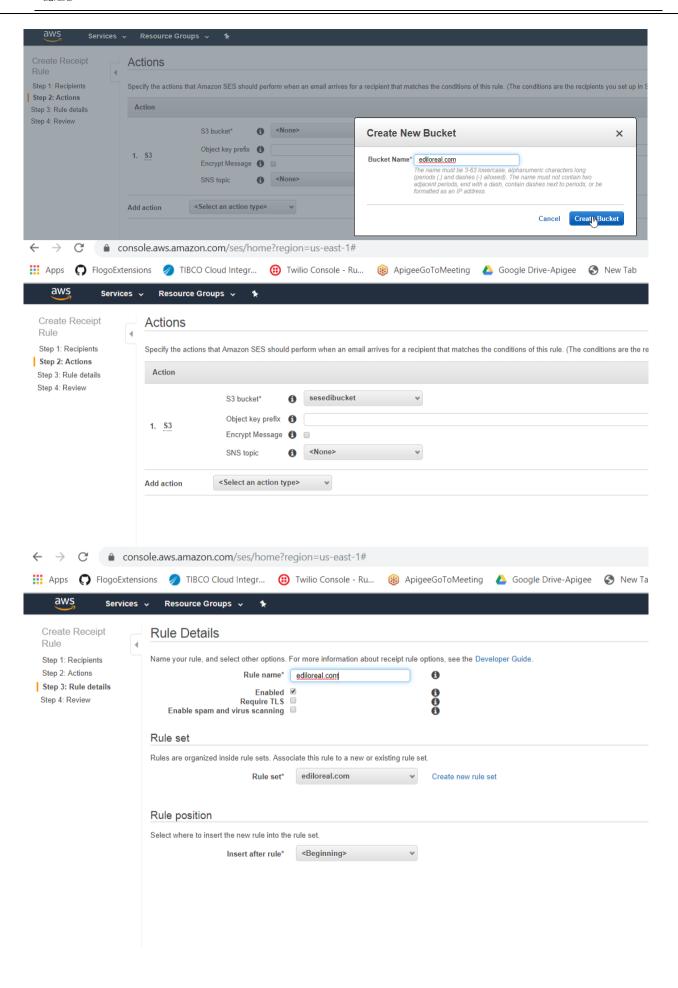


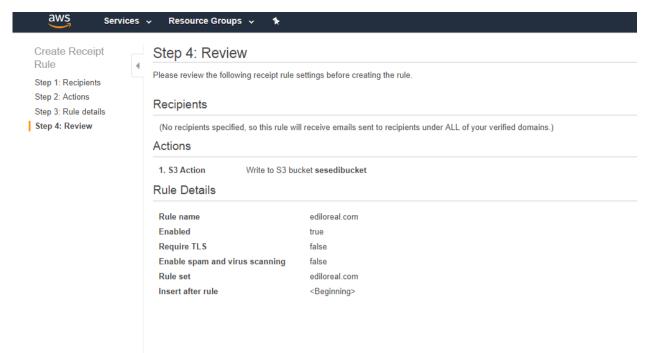
3 Rule-Set AWS-SES

Create a rule set in AWS SES

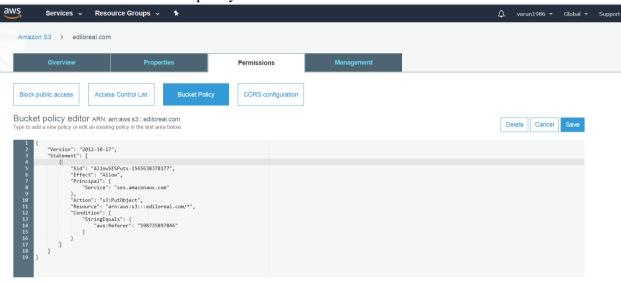






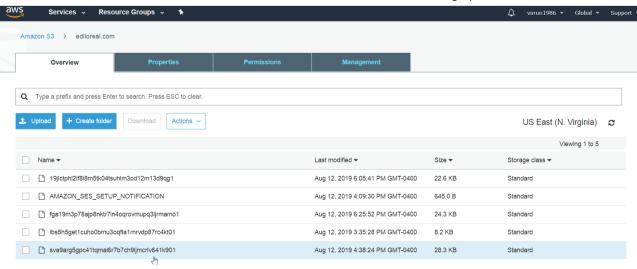


Create a s3 bucket. Enable the policy on the S3 bucket.



4 Email Capture S3

Once the email is sent to the verified domain. The emails should start showing up in AWS-S3



Issue #1

Severity: PROCESSED WARNING

Description:

The Purchase Orders (PO) mentioned on PRF01 segment of ASN '0889280636' (BS= NO2) are either unconfirmed or closed. Unconfirmed PO(s): ''. Closed PO(s)=: '5LD59IVI'. Amazon expects POs mentioned in the ASN to be open to ensure = accurate receipt.

Actions:

To correct issues related to Unconfirmed POs please refer to PO Management = Page of Vendor Central and provide your confirmation on the POs mentioned a= bove. Issues related to Closed POs cannot be corrected now since the items = have already been received. In future please ensure that you send ASN as soon as your shipment leaves your premise. Amazon recommends that you submit = the ASN within half an hour of shipment dispatch.

Issue #2

Severity: IMMEDIATE CORRECTION

Description:

The ASN '0889280636' (BSN02) has excess item quantities for the following P= O-ASIN combinations: 'PO 5LD59IVI: B07VVB6DSY'. Amazon expects that quantity mentioned in the ASN should not be more than the difference of confirmed quantity and quantities submitted across previous ASNs. To review the quantities mentioned on previous ASNs please refer to VENDOR CENTRAL > SHIPME= NTS > VIEW RECENT SHIPMENTS. It lists the ASNs submitted by you in last 90 days and you can search on the webpage using the PO# to find the previously submitted ASN for the same PO.

Actions:

Please review the ASN to ensure that the quantities are accurate and in accordance with the shipment. If they are accurate there is no action requiredon your end. If you notice a mismatch, please submit an updated EDI 856 with corrected line-item quantities.

Best Regards, amazon.com EDI Monitoring

Amazon reference: 20190812222532-82b5a3d8-40e9-46f3-98ac-ae09487a7c27

AmazonS3FullAccess

AmazonS3ReadOnl.

QuickSightAccessF...

5 **Create IAM user** Add user 2 3 4 5 Set user details You can add multiple users at once with the same access type and permissions. Learn more User name* ediloreal.com Add another user Select AWS access type Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. Learn more Access type* ✓ Programmatic access Enables an access key ID and secret access key for the AWS API, CLI, SDK, and other development tools. AWS Management Console access Enables a password that allows users to sign-in to the AWS Management Console. Console password* Autogenerated password Custom password * Required Cancel **Next: Permissions** Add user 1 2 3 4 5 → Set permissions Copy permissions from Attach existing policies Add user to group existing user directly C Create policy Showing 4 results Filter policies v **Q** s3 Policy name -Used as Description Type AmazonDMSRedshi. AWS managed Provides access to manage S3 settings for .

Provides full access to all buckets via the AWS Man

None

AWS managed

AWS managed

Next: Tags

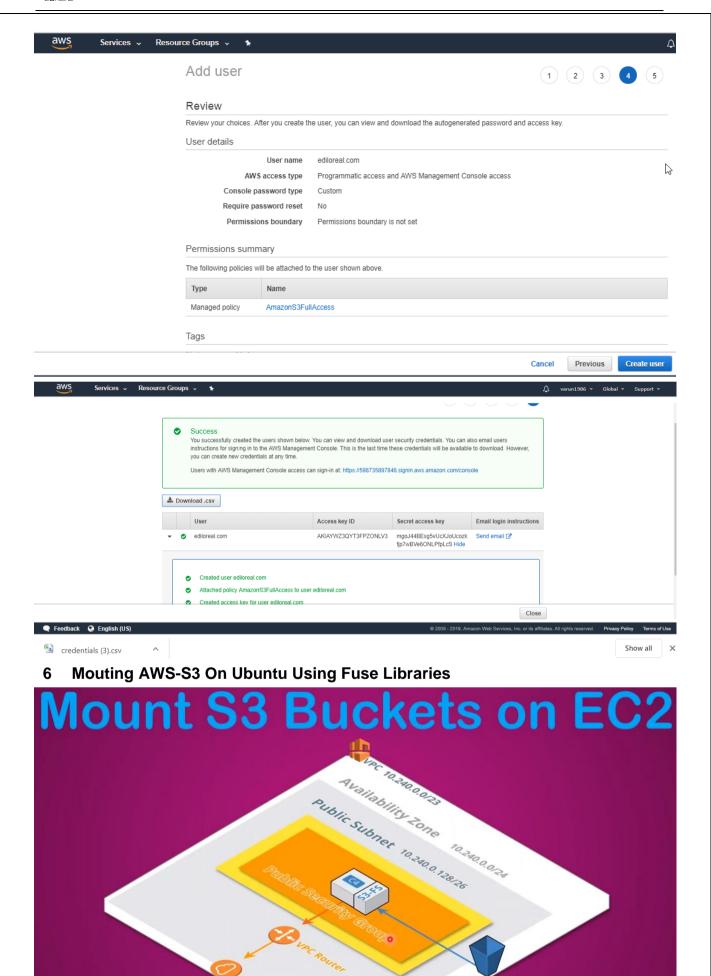
Provides full access to all buckets via the A.

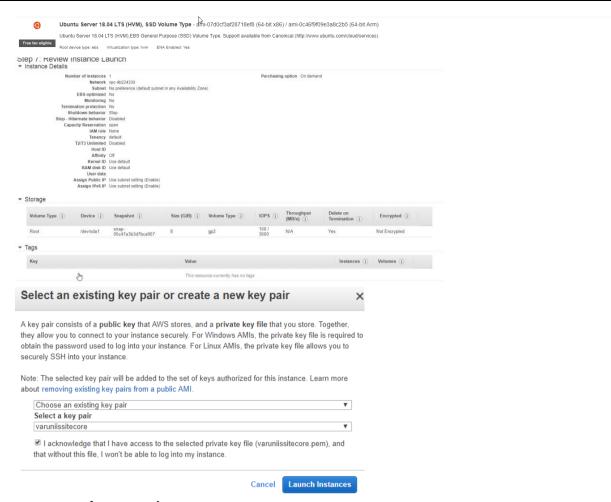
Provides read only access to all buckets via

Policy used by QuickSight team to access c...

Previous

Cancel





sequence of commands

apt-get remove fuse

mkdir -p /opt/fuse/

cd /opt/fuse/

apt-get install automake autotools-dev fuse g++ git libcurl4-gnutls-dev libfuse-dev libssl-dev libxml2-dev make pkg-config

git clone https://github.com/s3fs-fuse/s3fs-fuse.git

cd s3fs-fuse/

./autogen.sh

./configure

make

sudo make install

vi /etc/passwd-s3fs

sudo chmod 640 /etc/passwd-s3fs

mkdir -p /s3/bucket-test

vi /etc/passwd-s3fs

chmod 640 /etc/passwd-s3fs

s3fs ediloreal.com /s3/bucket-test -o passwd_file=/etc/passwd-s3fs -o use_path_request_style cd /s3/bucket-test

vi 7513kchhi0ac05ca90e0m8inld51k6d35hjvbio1

```
root@ip-172-31-95-176:~# apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:4 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 Packages [8570 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/universe Translation-en [4941 kB]
```

```
root@ip-172-31-95-176:~# apt-get install davfs2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
   libneon27
The following NEW packages will be installed:
   davfs2 libneon27
0 upgraded, 2 newly installed, 0 to remove and 17 not upgraded.
Need to get 229 kB of archives.
After this operation, 638 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libneon27 amd64 0.30.2-3~
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 davfs2 amd64 1.5.4-2 [134 kB]
```

remove existing packages

```
root@ip-172-31-95-176:~# apt-get remove fuse
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following package was automatically installed and is no longer required:
    libntfs-3g88
Use 'apt autoremove' to remove it.
The following packages will be REMOVED:
    fuse ntfs-3g
0 upgraded, 0 newly installed, 2 to remove and 17 not upgraded.
After this operation, 1506 kB disk space will be freed.
Do you want to continue? [Y/n] Y
(Reading database ... 56682 files and directories currently installed.)
Removing ntfs-3g (1:2017.3.23-2ubuntu0.18.04.2) ...
Removing fuse (2.9.7-1ubuntu1) ...
update-initramfs: deferring update (trigger activated)
Processing triggers for initramfs-tools (0.130ubuntu3.8) ...
update-initramfs: Generating /boot/initrd.img-4.15.0-1044-aws
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
```

Install all dependency packages for fuse and s3cmd using the below command.

```
make all-recursive
make all-recursive
make all-recursive
make all-recursive
make[1]: Fittering directory '/opt/fuse/s3fs-fuse/
Making all in src
make[2]: Entering directory '/opt/fuse/s3fs-fuse/src
g++ OHAWE_CONFIG H -1. -1. -0. FILE_OFFSET_BITS=64 -1/usr/include/fuse -1/usr/include/x86_64-linux-gnu -1/usr/include/libxml2 -g -02 -Wall -0_FILE_OFF
SET_BITS=64 -0_FORTIFY_SOURCE2_x Mis_S15_x0 - MD -MP -MF -deps/s3fs.po -c -o s3fs.o s3fs.cpp
mv -f -deps/s3fs.po .deps/s3fs.po .deps/s3fs.fo .deps/s3fs.fo .deps/s3fs.po .deps/safs.po .d
```

```
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse# sudo make install
Making install in src
make[1]: Entering directory '/opt/fuse/s3fs-fuse/src'
make[2]: Entering directory '/opt/fuse/s3fs-fuse/src'
  /bin/mkdir -p '/usr/local/bin'
    /usr/bin/install -c s3fs '/usr/local/bin'
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/opt/fuse/s3fs-fuse/src'
make[1]: Leaving directory '/opt/fuse/s3fs-fuse/src'
Making install in test
make[1]: Entering directory '/opt/fuse/s3fs-fuse/test'
make[2]: Entering directory '/opt/fuse/s3fs-fuse/test'
make[2]: Nothing to be done for 'install-exec-am'.
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/opt/fuse/s3fs-fuse/test'
make[1]: Leaving directory '/opt/fuse/s3fs-fuse/test'
Making install in doc
make[1]: Entering directory '/opt/fuse/s3fs-fuse/doc'
make[2]: Entering directory '/opt/fuse/s3fs-fuse/doc'
make[2]: Nothing to be done for 'install-exec-am'.
  /bin/mkdir -p '/usr/local/share/man/man1'
 /usr/bin/install -c -m 644 man/s3fs.1 '/usr/local/share/man/man1'
make[2]: Leaving directory '/opt/fuse/s3fs-fuse/doc'
make[1]: Leaving directory '/opt/fuse/s3fs-fuse/doc'
make[1]: Leaving directory '/opt/fuse/s3fs-fuse/
make[1]: Entering directory '/opt/fuse/s3fs-fuse'
make[2]: Entering directory '/opt/fuse/s3fs-fuse'
make[2]: Nothing to be done for 'install-exec-am'.
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/opt/fuse/s3fs-fuse'
make[1]: Leaving directory '/opt/fuse/s3fs-fuse'
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
 root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse# vi /etc/passwd-s3fs
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
```

```
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse# vi /etc/passwd-s3fs
```

```
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse# sudo chmod 640 /etc/passwd-s3fs
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse# mkdir -p /s3/bucket-test
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse# ^C
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse# vi /etc/passwd-s3fs
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse# chmod 640 /etc/passwd-s3fs
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
```

Mount the drive using

send a test mail and it should show up on the mounted drive.

Hello,

tYXpvbi5jb20>

We recently received an Electronic Data Interchange (EDI) AdvanceShipmentNo= tification document from you on 2019-07-02T23:48:14Z. While processing the = file, we found compliance issues that need your attention.

Please review the following information below and take any required actions=

=3D=3D=3D Metadata of the EDI Message =3D=3D=3D FILE 1832553871fwc_1_844 TransmissionControlNumber 000004577 PurchaseOrderNumber 7XXCIW5Q

=3D=3D=3D Required Action(s): =3D=3D=3D

Issue #1

Severity: IMMEDIATE CORRECTION

Description:

The ASN '0012747902' (BSN02) has excess item quantities for the following P= 0-ASIN combinations: ' PO 7XXCIW5Q: B00L1QITBY'. Amazon expects that quan= tity mentioned in the ASN should not be more than the difference of confirm= ed quantity and quantities submitted across previous ASNs. To review the quantities mentioned on previous ASNs please refer to VENDOR CENTRAL > SHIPME= NTS > VIEW RECENT SHIPMENTS. It lists the ASNs submitted by you in last 90 = days and you can search on the webpage using the PO# to find the previously= submitted ASN for the same PO.

Actions:

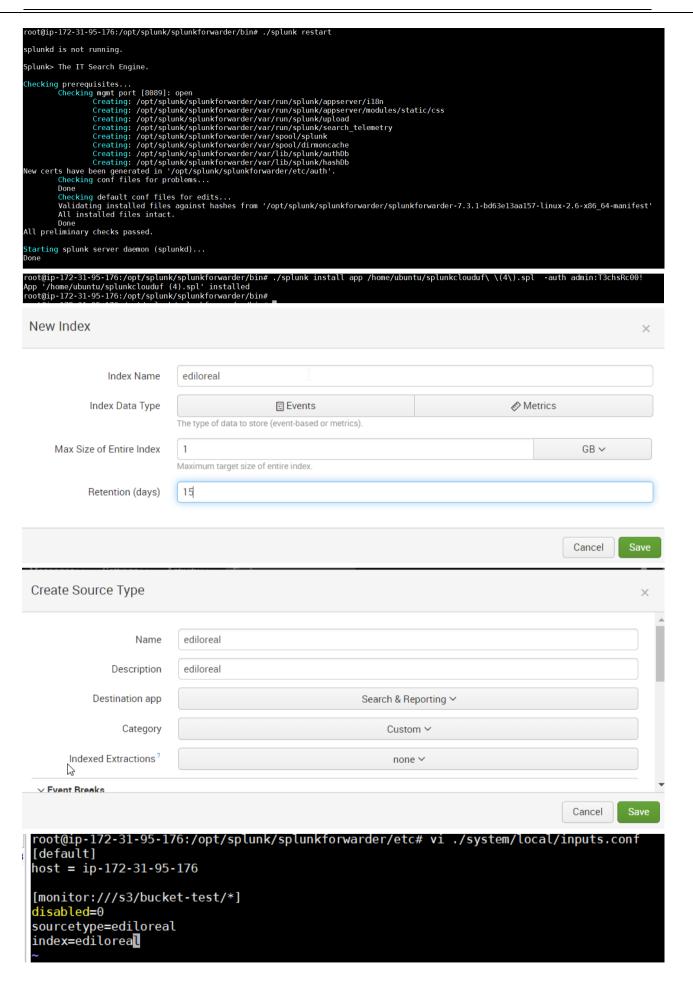
Ptease review the ASN to ensure that the quantities are accurate and in acc=

7 Ingest Emails Into SplunkCloud.com

https://prd-p-cvjrb5vcnjw7.cloud.splunk.com/en-US/app/launcher/home

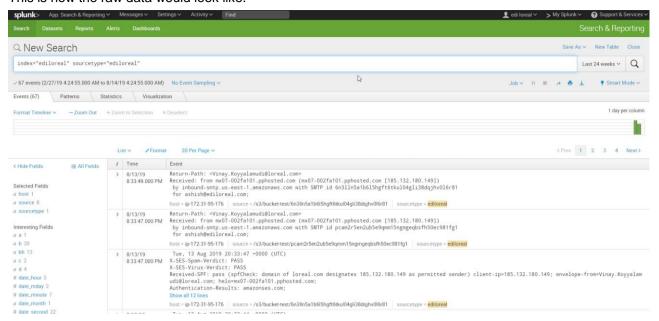
root@ip-172-31-95-176:/opt/splunk/splunkforwarder/bin# ./splunk edit user admin -password admin -auth admin:changeme SPLUNK SOFTWARE LICENSE AGREEMENT

THIS SPLUNK SOFTWARE LICENSE AGREEMENT ("AGREEMENT") GOVERNS THE LICENSING, INSTALLATION AND USE OF SPLUNK SOFTWARE. BY DOWNLOADING AND/OR INSTALLING SPLUNK SOFTWARE: (A) YOU ARE INDICATING THAT YOU HAVE READ AND UNDERSTAND THIS AGREEMENT, AND AGREE TO BE LEGALLY BOUND BY IT ON BEHALF OF THE COMPANY, GOVERNMENT, OR OTHER ENTITY FOR WHICH YOU ARE ACTING (FOR EXAMPLE, AS AN EMPLOYEE OR GOVERNMENT OFFICIAL) OR, IF THERE IS NO COMPANY, GOVERNMENT OR OTHER ENTITY FOR WHICH YOU ARE ACTING, ON BEHALF OF YOURSELF AS AN INDIVIDUAL; AND (B) YOU REPRESENT AND WARRANT THAT YOU HAVE THE AUTHORITY TO ACT ON BEHALF OF AND BIND SUCH COMPANY, GOVERNMENT OR OTHER ENTITY (IF ANY). WITHOUT LIMITING THE FOREGOING, YOU (AND YOUR ENTITY, IF ANY) ACKNOWLEDGE THAT BY SUBMITTING AN ORDER FOR THE SPLUNK SOFTWARE, YOU (AND YOUR ENTITY (IF ANY)) HAVE AGREED TO BE BOUND BY THIS AGREEMENT. As used in this Agreement, "Splunk," refers to Splunk Inc., a Delaware corporation, with its principal place of business at 270 Brannan Street, San Francisco, California 94107, U.S.A.; and "Customer" refers to the company, government, or other entity on whose behalf you have entered into this Agreement or, if there is no such entity, you as an individual.



8 Splunk Dashboard

This is how the raw data would look like.



Build an appropriate dashboard with the necessary underlying queries.

1) QUERY FOR DETAILED DESCRIPTION

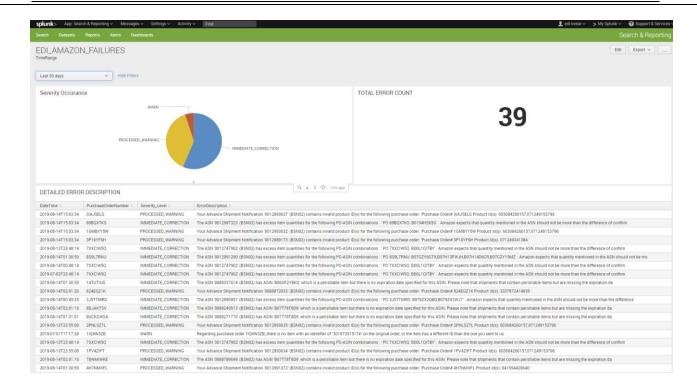
index="ediloreal" sourcetype="ediloreal" | rex field=_raw "Severity:\s*(?P<Severity_Level>\w*)" |rex field=_raw "PurchaseOrderNumber\s*(?P<PurchaseOrderNumber>.*)" |rex field=_raw "Description:\n(?P<ErrorDescription>.*\n.*\n.*)"|rex field=_raw "(?P<DateTime>\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2})" | eval ErrorDescription = replace (ErrorDescription, "[\n\r=]","") | table DateTime PurchaseOrderNumber Severity_Level ErrorDescription | where len(Severity_Level)>0

2) QUERY FOR PIE CHART REPRESENTATION

index="ediloreal" sourcetype="ediloreal" | rex field=_raw "Severity:\s*(?P<Severity_Level>(.*))" |stats count by Severity Level |where len(Severity Level)>0

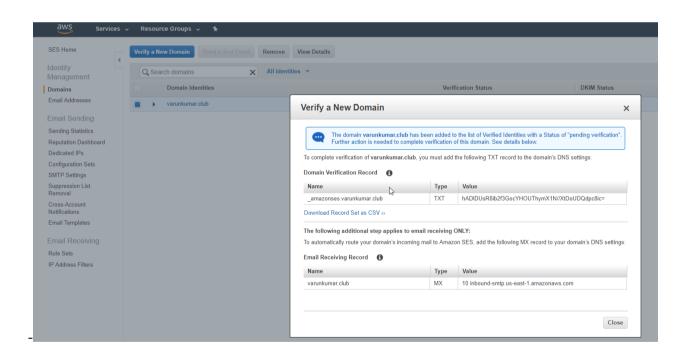
3) QUERY FOR TOTAL ERROR COUNT

index="ediloreal" sourcetype="ediloreal" | rex field=_raw "Severity:\s*(?P<Severity_Level>\w*)" |where len(Severity_Level)>0 | stats count



9 Failed Setup Details.

Here is the list of steps that were tried but did not work. The domain in these steps was created in GoDaddy.



[&]quot;Domain verification record set:"

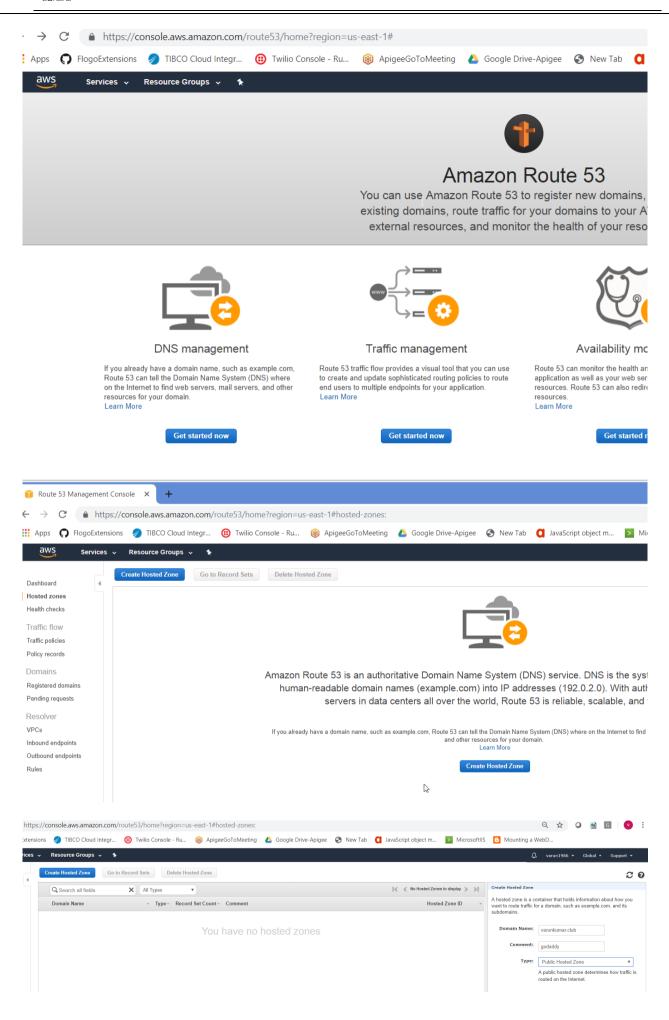
[&]quot;Record name", "Record type", "Record Value"

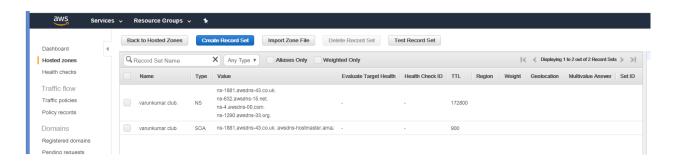
 $[&]quot;_amazonses.varunkumar.club", "TXT", "hADlDUsR8ib2f3GocYHOUThymX1N//XtDoUDQdpc8ic="$

[&]quot;Alternate domain verification record:"

[&]quot;Record name", "Record type", "Record Value"

[&]quot;varunkumar.club","TXT","amazonses:hADlDUsR8ib2f3GocYHOUThymX1N//XtDoUDQdpc8ic ="





Nameservers

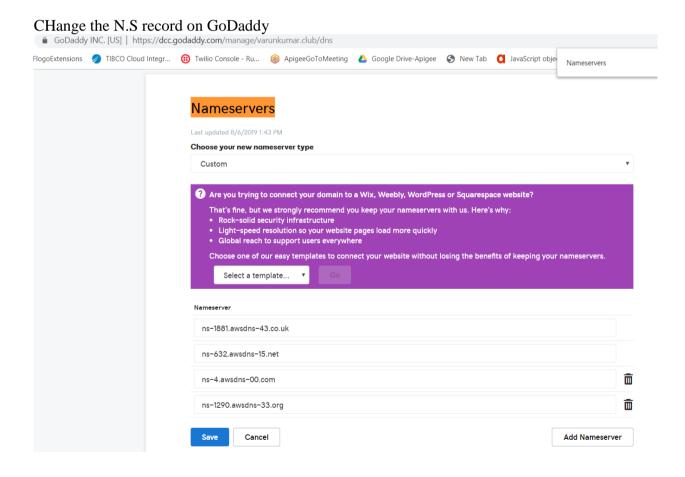
Last updated 8/6/2019 1:43 PM

Using default nameservers Change

Nameserver

ns47.domaincontrol.com

ns48.domaincontrol.com



Verify a New Domain





The domain varunkumar.club has been added to the list of Verified Identities with a Status of "pending verification" Further action is needed to complete verification of this domain. See details below.

To complete verification of varunkumar.club, you must add the following TXT record to the domain's DNS settings:

Domain Verification Record



Name	Туре	Value
_amazonses.varunkumar.club	TXT	hADIDUsR8ib2f3GocYHOUThymX1N//XtDoUDQdpc8ic=

To enable DKIM signing for your domain (optional but recommended), you must add the following CNAME records to your domain's DNS settings:

DKIM Record Set 6



Name	Туре	Value	
Innlmcfu3wxwiygnpwcndrwc7kufum54. _domainkey.varunkumar.club	CNAME	Innlmcfu3wxwiygnpwcndrwc7kufum54.dkim.amazonses.com	Â
zh4y6zhxtx5tb74lwymyhayfmaqjwpzh. _domainkey.varunkumar.club	CNAME	zh4y6zhxtx5tb74lwymyhayfmaqjwpzh.dkim.amazonses.com	*

Download Record Set as CSV >>

The following additional step applies to email receiving ONLY:

To automatically route your domain's incoming mail to Amazon SES, add the following MX record to your domain's DNS settings:

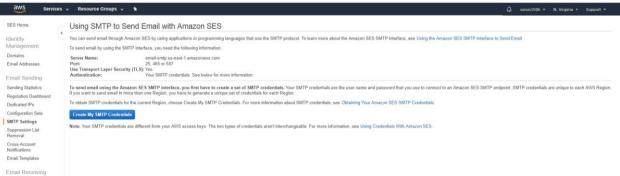
Email Receiving Record

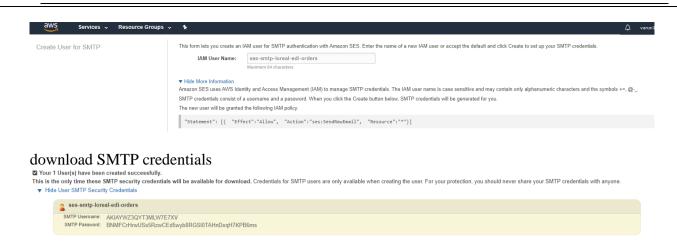
Name	Туре	Value
varunkumar.club	MX	10 inbound-smtp.us-east-1.amazonaws.com

Amazon Route 53 Customers

Because you are an Amazon Route 53 customer, you can create the new records automatically.







Close Download Credentials

IAM User Name,Smtp Username,Smtp Password "ses-smtp-loreal-edi-orders",

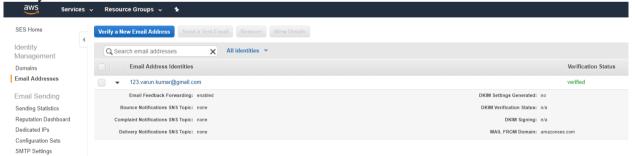
Smtp Password AKIAYWZ3QYT3MLW7E7XV,

Smtp Password BNMFCrHrwUSs5RzwCEd5wyb8RGSI0TAHnDxqH7KPB6ms

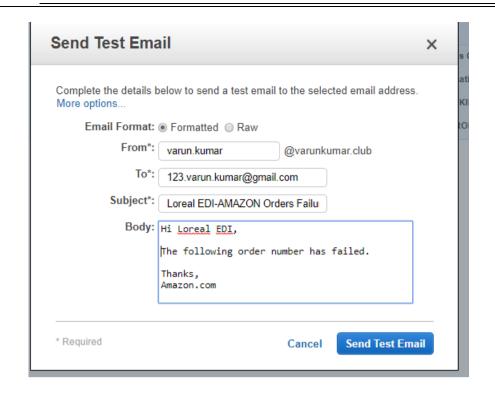
Smtp Host email-smtp.us-east-1.amazonaws.com

Smtp Port 25, 465 587

Verify an email address



Sending a test email



Loreal EDI-AMAZON Orders Failures

varun.kumar@varunkumar.club
to me *

Hi Loreal EDI,

The following order number has failed.

Thanks,

Amazon.com

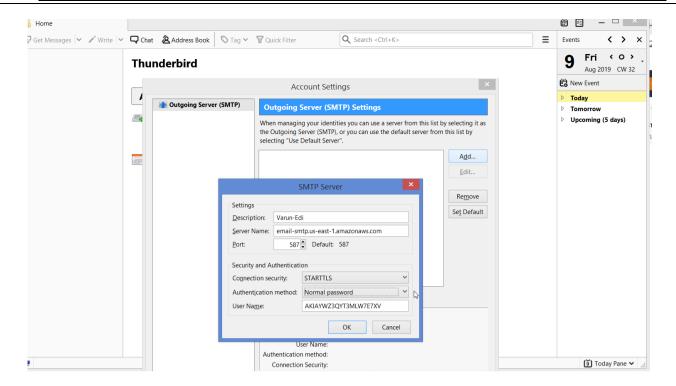
Configuring email clients, In this case using thunderbird

Connecting to the Amazon SES SMTP Endpoint

The following table shows the Amazon SES SMTP endpoints for the AWS Regions where Amazon SES is available.

Region name	SMTP endpoint
US East (N. Virginia)	email-smtp.us-east-1.amazonaws.com
US West (Oregon)	email-smtp.us-west-2.amazonaws.com
EU (Ireland)	email-smtp.eu-west-1.amazonaws.com

The Amazon SES SMTP endpoint requires that all connections be encrypted using Transport Layer Security (TLS). (



Receiving emails

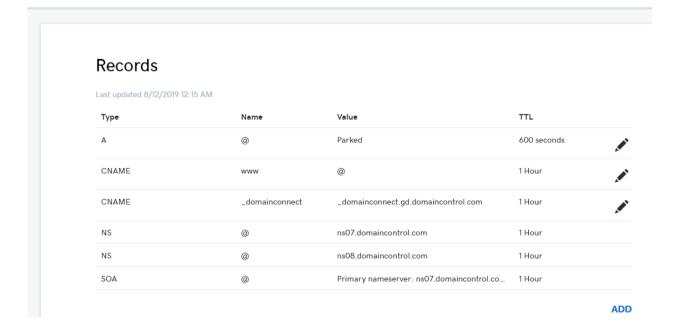
 SES provides you with an MX record for your domain.
 An MX record is what sending email servers use to look up the mail server to deliver messages to for a given domain.
 You add this DNS record in your domain's DNS settings.

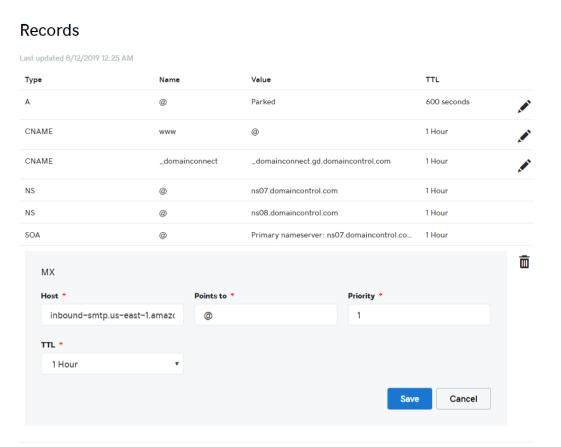
add an MX record to the GoDaddyDOmain. This is how it will originally look.

My Domains

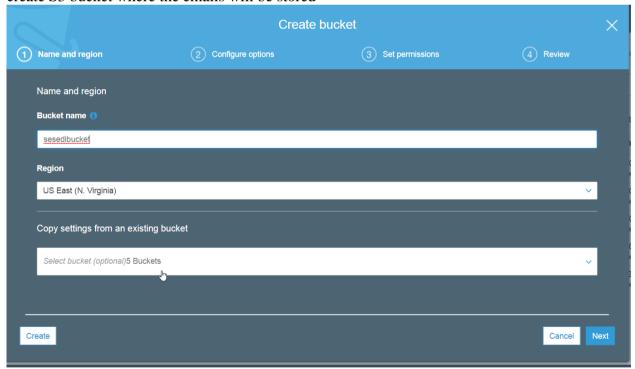
DNS Management

varunkumar.club

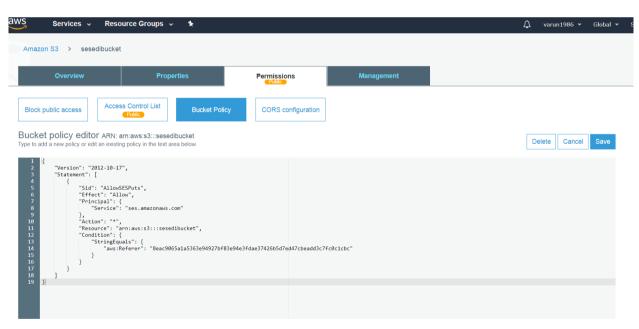




create S3 bucket where the emails will be stored

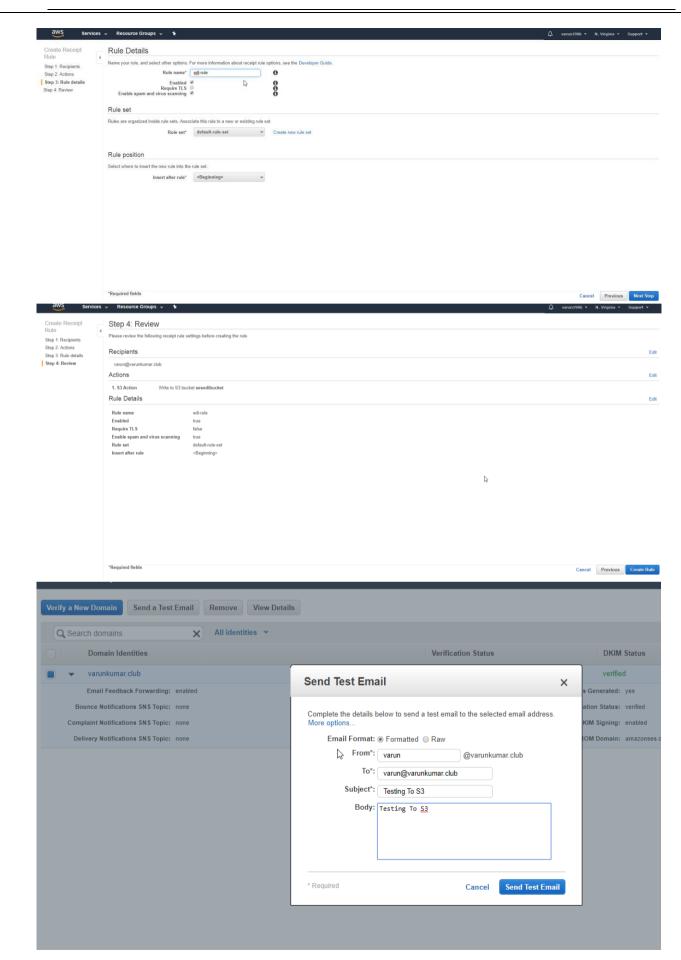


add the following policy to the bucket.



setup-up rule sets for email receiving.





Name	Type	Value		
_amazonses.varunkumar.club	TXT	hADIDUsR8ib2f3GocYHOUThymX1N//XtDoUDQdpc8ic=		
Innlmcfu3wxwiygnpwcndrwc7kufum54domainkey.varunkumar.club	CNAME	Innlmcfu3wxwiygnpwcndrwc7kufum54.dkim.amazonses.com		

zh4y6zhxtx5tb74lwymyhayfmaqjwpzhdomainkey.varunkumar.club	CNAME	zh4y6zhxtx5tb74lwymyhayfmaqjwpzh.dkim.amazonses.com		
nwxmnze77px2tmlpofhq6j6vxk3sysrndomainkey.varunkumar.club	CNAME	nwxmnze77px2tmlpofhq6j6vxk3sysrn.dkim.amazonses.com		
varunkumar.club	MX	10 inbound-smtp.us-east-1.amazonaws.com		

the new records automatically.

_amazonses.varunkumar.club

TXT hADIDUsR8ib2f3GocYHOUThymX1N//XtDoUDQdpc8ic=

REGISTERING DOMIN IN ROUTE53 TRANSFER DOMAINS **REGISTER NEW DOMAINS ROUTE TRAFFIC**

```
"Version": "2012-10-17",
  "Statement": [
    {
       "Sid": "AllowSESPuts-1565638378177",
       "Effect": "Allow",
       "Principal": {
          "Service": "ses.amazonaws.com"
       },
        "Action": [
         "s3:PutObject",
         "s3:GetObject",
         "s3:DeleteObject",
         s3:ListBucket
       ],
       "Resource": "arn:aws:s3:::ediloreal.com/*",
       "Condition": {
          "StringEquals": {
            "aws:Referer": "598735897846"
       }
    }
}
  "Version": "2012-10-17",
  "Statement": [
       "Sid": "AllowSESPuts-1565638378177",
       "Effect": "Allow",
       "Principal": {
          "Service": "ses.amazonaws.com"
       },
       "Action": "s3:PutObject",
```

```
"Resource": "arn:aws:s3:::ediloreal.com/*",
       "Condition": {
          "StringEquals": {
            "aws:Referer": "598735897846"
         }
       }
    }
}
  "Version": "2012-10-17",
  "Statement": [
    {
       "Sid": "AllowSESPuts-1565638378177",
       "Effect": "Allow",
       "Principal": {
          "Service": "ses.amazonaws.com"
       },
       "Action": "s3:PutObject",
       "Resource": "arn:aws:s3:::ediloreal.com/*",
       "Condition": {
          "StringEquals": {
            "aws:Referer": "598735897846"
         }
       }
    }
  ]
}
```

```
root@ip-172-31-95-176:/mnt/edi/amazonorders# cd /opt/fuse/
root@ip-172-31-95-176:/opt/fuse#
root@ip-172-31-95-176:/opt/fuse#
root@ip-172-31-95-176:/opt/fuse# git clone https://github.com/s3fs-fuse/s3fs-fuse.git
Cloning into 's3fs-fuse'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (12/12), done.
remote: Total 5580 (delta 3), reused 2 (delta 0), pack-reused 5568
Receiving objects: 100% (5580/5580), 3.22 MiB | 23.87 MiB/s, done.
Resolving deltas: 100% (3855/3855), done.
root@ip-172-31-95-176:/opt/fuse#
root@ip-172-31-95-176:/opt/fuse# cd s3fs-fuse/
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse# ./autogen.sh
--- Make commit hash file -----
--- Finished commit hash file ---
--- Start autotools ------
configure.ac:30: installing './compile'
configure.ac:26: installing './config.guess'
configure.ac:26: installing './config.sub'
configure.ac:27: installing './install-sh'
configure.ac:27: installing './missing'
src/Makefile.am: installing './depcomp'
parallel-tests: installing './test-driver'
 -- Finished autotools -----
root@ip-172-31-95-176:/opt/fuse/s3fs-fuse#
 oot@ip-172-31-95-176:/opt/fuse/s3fs-fuse# ./configure
 hecking build system type... x86_64-pc-linux-gnu
 hecking host system type... x86_64-pc-linux-gnu
checking target system type... x86_64-pc-linux-gnu
 hecking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is sane... yes
```

Download and complie fuse

```
root@ip-172-31-95-176:-# cd /usr/src
root@ip-172-31-95-176:/usr/src#
root@ip-172-31-95-176:/usr/src#
root@ip-172-31-95-176:/usr/src#
wget https://github.com/libfuse/libfuse/releases/download/fuse-3.0.0/fuse-3.0.0.tar.gz
Resolving github.com (github.com). 140.82.113.4[:443... connected.
HTTP request sent. awaiting response... 392 Found
Location: https://github-production-release-asset-2e65be.s3.amazonaws.com/48296177/4174c734-bdf3.11e6-88e6-cf608d8dcfe47X-Amz-Algorithm=AWS4-HMAC-SHA256X-Amz-Credential=AKIAINMIYNXACSVEH55AWZ-P20190813%2Fus-east-1%2F3%2Faws4_request&X-Amz-Date=20190813T175927Z&X-Amz-Expires=300&X-Amz-Signature=790fb5f52f59c5
be9ba15f517525dde9f1832d2f3baa43e4b41b2d12ea6bec24&X-Amz-Signaddedrs=inost&actor_id=0&response-content-disposition=attachments/3b%20filename%3bfuse-3.0.0.t
ar.gzkresponse-content-type=application%2Foctet-stream [following]
-72019-08.13 17:59:27 - https://github-production-release-asset-2e65be.s3.amazonaws.com/48296177/4174c734-bdf3-11e6-88e6-cf608d8dcfe47X-Amz-Algorithm=AWS4-HMAC-SHA256X-Amz-Credential=AKIAINMIYAXACSVEH53AWZF20190813WZFUs-east-1%2F3%2Faws4_request&X-Amz-Date=20190813T175927Z&X-Amz-Expires=300&X-Amz-Signadture=790fb5f52755de9f9155955e9be31551755de9f9153827d596ad3e48b41b2d12ea6bec24&X-Amz-SignedHeaders=host&actor_id=0&response-content-disposition=attachment%3B%20filename
%3Dfuse-3.0.0.tar.gz&response-content-type=application%2Foctet-stream
Resolving github-production-release-asset-2e65be.s3.amazonaws.com (github-production-release-asset-2e65be.s3.amazonaws.com)|52.216.144.83|
Connecting to github-production-release-asset-2e65be.s3.amazonaws.com (github-production-release-asset-2e65be.s3.amazonaws.com)|52.216.144.83|
Connecting to github-production-release-asset-2e65be.s3.amazonaws.com (github-production-release-asset-2e65be.s3.amazonaws.com)|52.216.144.83|
Connecting to github-production-release-asset-2e65be.s3.amazonaws.com (github-production-release-asset-2e65be.s3.amazonaws.com)|52.216.144.83|
Connecting to github-production-release-asset-2e65be.s3.amazonaws.
```

```
root@ip-172-31-95-176:/usr/src# tar xzf fuse-3.0.0.tar.gz
root@ip-172-31-95-176:/usr/src# cd fuse-3.0.@
```

```
root@ip-172-31-95-176:/usr/src/fuse-3.0.0# ./configure --prefix=/usr/local
checking build system type... x86 64-unknown-linux-gnu
checking host system type... x86_64-unknown-linux-gnu
checking target system type... x86 64-unknown-linux-gnu
checking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is same... yes
checking for a thread-safe mkdir -p... /bin/mkdir -p
checking for gawk... gawk
checking whether make sets $(MAKE)... yes
checking whether make supports nested variables... yes
checking whether make supports nested variables... (cached) yes
checking how to print strings... printf
checking for style of include used by make... GNU
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ISO C89... none needed
checking whether gcc understands -c and -o together... yes
checking dependency style of gcc... gcc3
checking for a sed that does not truncate output.../bin/sed
checking for grep that handles long lines and -e... /bin/grep
```

```
root@ip-172-31-95-176:/usr/src/fuse-3.0.0# make && make install
Making all in include
make [1]: Entering directory '/usr/src/fuse-3.0.0/include'
make [2]: Entering directory '/usr/src/fuse-3.0.0/include'
make [2]: Entering directory '/usr/src/fuse-3.0.0/include'
make [2]: Leaving directory '/usr/src/fuse-3.0.0/include'
make [3]: Leaving directory '/usr/src/fuse-3.0.0/include'
Making all in lib
make[1]: Entering directory '/usr/src/fuse-3.0.0/include'
Making all in lib
make[1]: Entering directory '/usr/src/fuse-3.0.0/lib'
CC fuse lop.
CC fuse lop.
CC fuse lop.
CC fuse lop.
CC fuse plop.
CC fuse plop.
CC fuse plop.
CC fuse jone lo
CC fuse jone lo
CC fuse jone lo
CC fuse jone lo
CC cuse lowlevel.lo
CC cuse lowlevel.lo
CC nelper. lo
helper.c: In function 'fuse_main_real':
helper.c: In function 'fuse_main_real':
helper.c:278:19: warning: comparison between pointer and zero character constant [-Wpointer-compare]
if(args.argv[0] != '\0')

helper.c: In function 'fuse_daemonize':
helper.c:278:6: note: did you mean to dereference the pointer?
if(args.argv[0] != '\0')

helper.c: In function 'fuse_daemonize':
helper.c:226:4: warning: ignoring return value of 'read', declared with attribute warn_unused_result [-Wunused-result]

(void) read(waiter[0], &completed, sizeof(completed));

helper.c:235:3: warning: ignoring return value of 'chdir', declared with attribute warn_unused_result [-Wunused-result]

root@ip-172-31-95-176:/usr/src/fuse-3.0.0#
root@ip-172-31-95-176:/usr/src/fuse-3.0.0#
root@ip-172-31-95-176:/usr/src/fuse-3.0.0#
root@ip-172-31-95-176:/usr/src/fuse-3.0.0#
root@ip-172-31-95-176:/usr/src/fuse-3.0.0#
root@ip-172-31-95-176:/usr/src/fuse-3.0.0#
root@ip-172-31-95-176:/usr/src/fuse-3.0.0#
root@ip-172-31-95-176:/usr/src/fuse-3.0.0#
root@ip-172-31-95-176:/usr/src/fuse-3.0.0#
```

git clone https://github.com/s3fs-fuse/s3fs-fuse.git cd s3fs-fuse ./autogen.sh cd fuse-3.0.0/

./configure make make install

```
root@ip-172-31-95-176:/etc#
root@ip-172-31-95-176:/etc# vi /etc/passwd-s3fs
root@ip-172-31-95-176:/etc#
```



AKIAICF6TA2CPECAB4XQ.yC3MlF3XrmnpsRWB6xQwGH4+iB4IbIq/0LqkAdVU