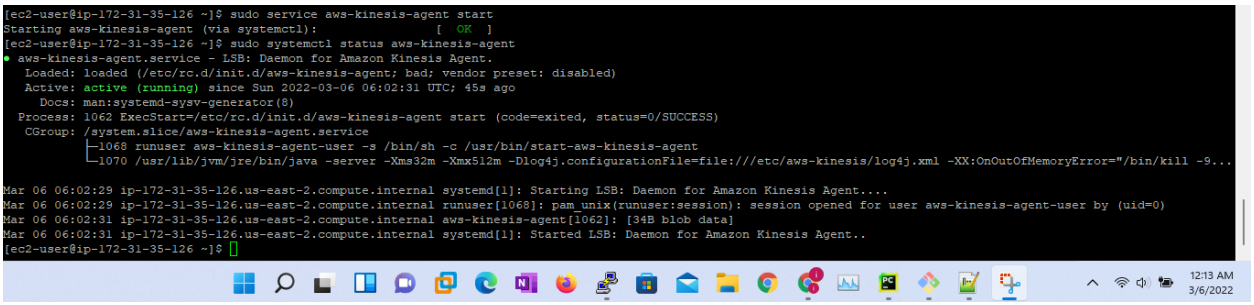
Kinesis Firehose Agent:

Kinesis agent is a agent provided by the kinesis or AWS under kinesis, Which will actually used to push the logs from the server where they are generated to Kinesis stream OR Delivery Stream.

Logs are located here: C: /development/practice/gen_logs/access.log

Setup Kinesis Firehose Agent: (Reference: https://docs.aws.amazon.com/firehose/latest/dev/writing-with-agents.html#download-install)



Create delivery stream to push the logs into target in Kinesis.

Use Case: Collect the data from Kinesis firehose agent and write the data to target s3 bucket.

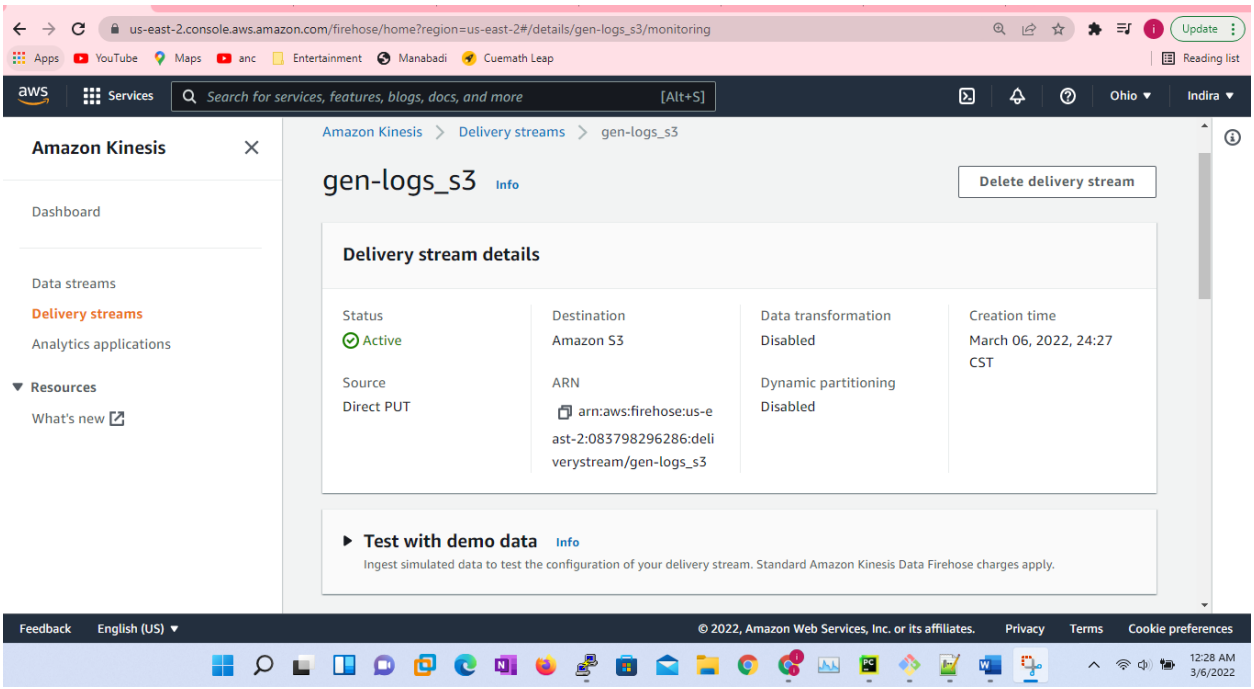
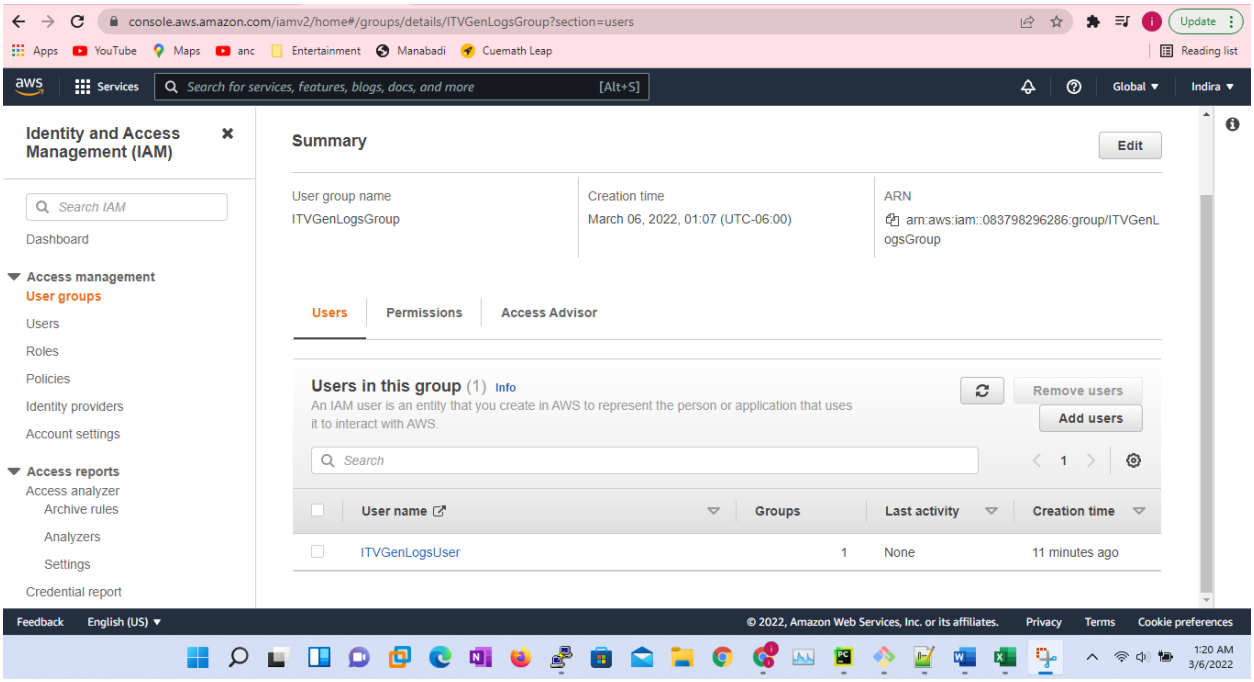
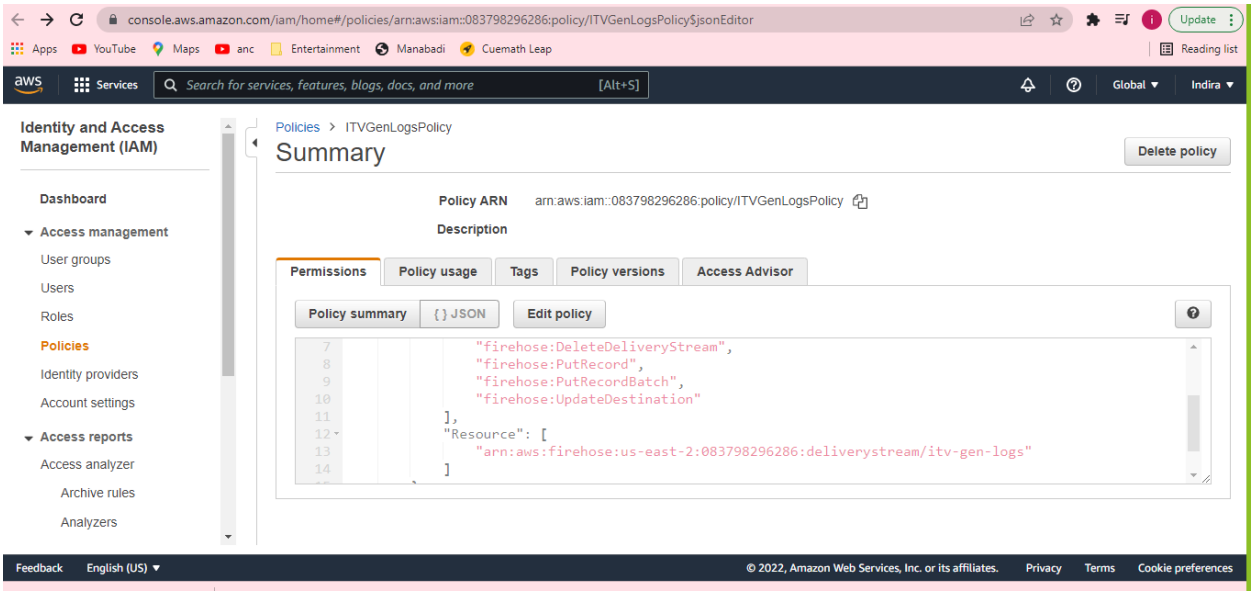


Figure 1Configured the Kinesis delivery stream

Create the IAM user and related group with required policies.





Configure Kinesis Firehose Agent:

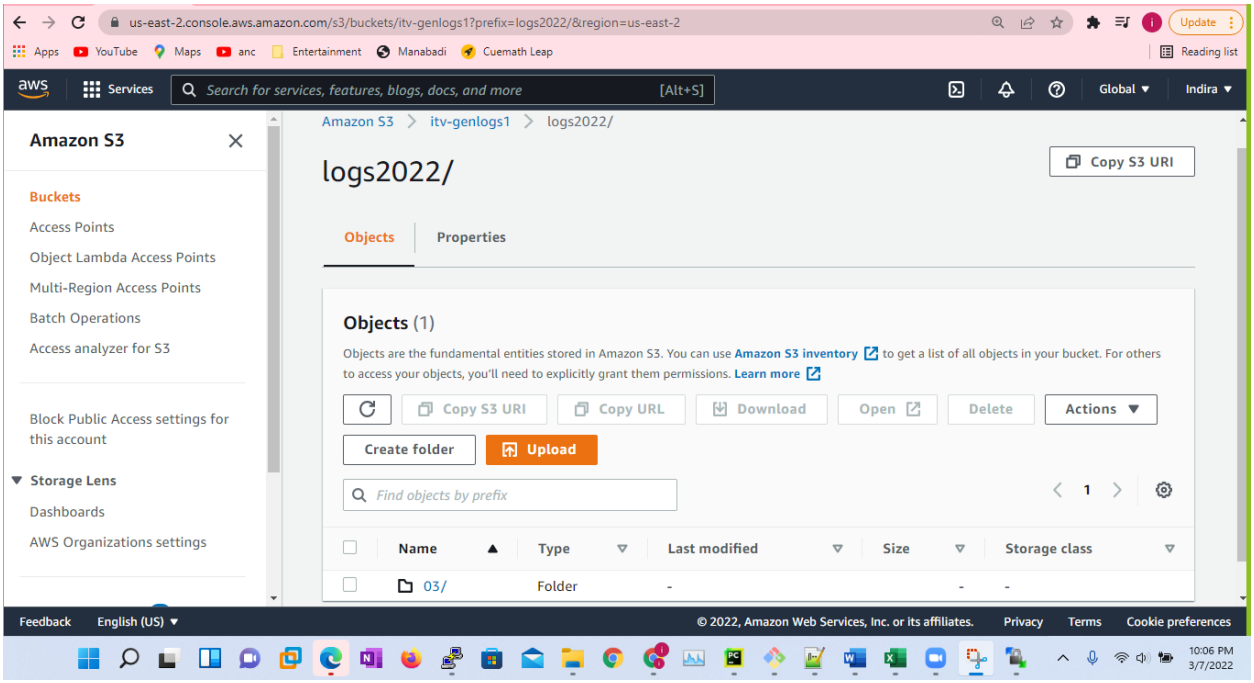
```
{
  "cloudwatch.emitMetrics": false,
  "awsAccessKeyId": "AKIARHAWEQ3PGYMTNBNA",
  "awsSecretAccessKey": "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",
  "flows": [
       {
     "filePattern": "/gen_logs/access.logs",
     "deliveryStream": "gen-logs_s3"
    }
  ]
}
```

Start and Validate Agent:

```
[ec2-user@ip-172-31-35-126 aws-kinesis-agent]$ sudo systemctl restart aws-kinesis-agent
[ec2-user@ip-172-31-35-126 aws-kinesis-agent]$ sudo systemctl status aws-kinesis-agent
● aws-kinesis-agent.service - LSB: Daemon for Amazon Kinesis Agent.
   Loaded: loaded (/etc/rc.d/init.d/aws-kinesis-agent; bad; vendor preset: disabled)
   Active: active (running) since Mon 2022-03-07 05:20:17 UTC; 12s ago
     Docs: man:systemd-sysv-generator(8)
  Process: 27786 ExecStop=/etc/rc.d/init.d/aws-kinesis-agent stop (code=exited, status=0/SUCCESS)
  Process: 27848 ExecStart=/etc/rc.d/init.d/aws-kinesis-agent start (code=exited, status=0/SUCCESS)
   CGroup: /system.slice/aws-kinesis-agent.service
           ├─27856 runuser aws-kinesis-agent-user -s /bin/sh -c /usr/bin/start-aws-kinesis-agent
           └─27858 /usr/lib/jvm/jre/bin/java -server -Xms32m -Xmx512m -Dlog4j.configurationFile=file:///etc/aws-kinesis/log4j.xml -XX:OnOutOfMemoryError="/bin/kill -...

Mar 07 05:20:15 ip-172-31-35-126.us-east-2.compute.internal systemd[1]: Stopped LSB: Daemon for Amazon Kinesis Agent..
Mar 07 05:20:15 ip-172-31-35-126.us-east-2.compute.internal systemd[1]: Starting LSB: Daemon for Amazon Kinesis Agent....
Mar 07 05:20:15 ip-172-31-35-126.us-east-2.compute.internal runuser[27856]: pam_unix(runuser:session): session opened for user aws-kinesis-agent-user by (uid=0)
Mar 07 05:20:17 ip-172-31-35-126.us-east-2.compute.internal aws-kinesis-agent[27848]: [34B blob data]
Mar 07 05:20:17 ip-172-31-35-126.us-east-2.compute.internal systemd[1]: Started LSB: Daemon for Amazon Kinesis Agent..
[ec2-user@ip-172-31-35-126 aws-kinesis-agent]$ ls -ltr
total 64
-rw-r--r-- 1 aws-kinesis-agent-user aws-kinesis-agent-user  2377 Mar  6 07:00 aws-kinesis-agent-2022-03-06-06.log.gz
-rw-r--r-- 1 aws-kinesis-agent-user aws-kinesis-agent-user  2605 Mar  6 08:00 aws-kinesis-agent-2022-03-06-07.log.gz
-rw-r--r-- 1 aws-kinesis-agent-user aws-kinesis-agent-user  1057 Mar  6 23:08 aws-kinesis-agent-2022-03-06-08.log.gz
-rw-r--r-- 1 aws-kinesis-agent-user aws-kinesis-agent-user  1804 Mar  7 00:00 aws-kinesis-agent-2022-03-06-23.log.gz
-rw-r--r-- 1 aws-kinesis-agent-user aws-kinesis-agent-user  1705 Mar  7 01:00 aws-kinesis-agent-2022-03-07-00.log.gz
-rw-r--r-- 1 aws-kinesis-agent-user aws-kinesis-agent-user  2344 Mar  7 02:00 aws-kinesis-agent-2022-03-07-01.log.gz
-rw-r--r-- 1 aws-kinesis-agent-user aws-kinesis-agent-user  2208 Mar  7 03:00 aws-kinesis-agent-2022-03-07-02.log.gz
-rw-r--r-- 1 aws-kinesis-agent-user aws-kinesis-agent-user  1064 Mar  7 04:33 aws-kinesis-agent-2022-03-07-03.log.gz
-rw-r--r-- 1 aws-kinesis-agent-user aws-kinesis-agent-user  1263 Mar  7 05:00 aws-kinesis-agent-2022-03-07-04.log.gz
-rw-r--r-- 1 aws-kinesis-agent-user aws-kinesis-agent-user 25027 Mar  7 05:20 aws-kinesis-agent.log
[ec2-user@ip-172-31-35-126 aws-kinesis-agent]$
```

```
022-03-08 03:55:35.611+0000  (Agent.MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.Agent [INFO] Agent: Progress: 0 records parsed (2380787 bytes), and 0 re
ords sent successfully to destinations. Uptime: 219007ms
022-03-08 03:56:05.609+0000  (FileTailer[fh:gen_logs_s3:/tmp/accesslogs.log].MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.tailing.FileTailer [INFO] FileT
iler[fh:gen_logs_s3:/tmp/accesslogs.log]: Tailer Progress: Tailer has parsed 0 records (2380787 bytes), transformed 0 records, skipped 0 records, and has successfully
ent 0 records to destination.
022-03-08 03:56:05.611+0000  (Agent.MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.Agent [INFO] Agent: Progress: 0 records parsed (2380787 bytes), and 0 re
ords sent successfully to destinations. Uptime: 222007ms
022-03-08 03:56:35.609+0000  (FileTailer[fh:gen_logs_s3:/tmp/accesslogs.log].MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.tailing.FileTailer [INFO] FileT
iler[fh:gen_logs_s3:/tmp/accesslogs.log]: Tailer Progress: Tailer has parsed 0 records (2380787 bytes), transformed 0 records, skipped 0 records, and has successfully
ent 0 records to destination.
022-03-08 03:56:35.611+0000  (Agent.MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.Agent [INFO] Agent: Progress: 0 records parsed (2380787 bytes), and 0 re
ords sent successfully to destinations. Uptime: 225007ms
022-03-08 03:57:05.609+0000  (FileTailer[fh:gen_logs_s3:/tmp/accesslogs.log].MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.tailing.FileTailer [INFO] FileT
iler[fh:gen_logs_s3:/tmp/accesslogs.log]: Tailer Progress: Tailer has parsed 0 records (2380787 bytes), transformed 0 records, skipped 0 records, and has successfully
ent 0 records to destination.
022-03-08 03:57:05.611+0000  (Agent.MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.Agent [INFO] Agent: Progress: 0 records parsed (2380787 bytes), and 0 re
ords sent successfully to destinations. Uptime: 228007ms
022-03-08 03:57:35.609+0000  (FileTailer[fh:gen_logs_s3:/tmp/accesslogs.log].MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.tailing.FileTailer [INFO] FileT
iler[fh:gen_logs_s3:/tmp/accesslogs.log]: Tailer Progress: Tailer has parsed 0 records (2380787 bytes), transformed 0 records, skipped 0 records, and has successfully
ent 0 records to destination.
022-03-08 03:57:35.611+0000  (Agent.MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.Agent [INFO] Agent: Progress: 0 records parsed (2380787 bytes), and 0 re
ords sent successfully to destinations. Uptime: 231007ms
022-03-08 03:58:05.609+0000  (FileTailer[fh:gen_logs_s3:/tmp/accesslogs.log].MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.tailing.FileTailer [INFO] FileT
iler[fh:gen_logs_s3:/tmp/accesslogs.log]: Tailer Progress: Tailer has parsed 0 records (2380787 bytes), transformed 0 records, skipped 0 records, and has successfully
ent 0 records to destination.
022-03-08 03:58:05.611+0000  (Agent.MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.Agent [INFO] Agent: Progress: 0 records parsed (2380787 bytes), and 0 re
ords sent successfully to destinations. Uptime: 234007ms
022-03-08 03:58:35.609+0000  (FileTailer[fh:gen_logs_s3:/tmp/accesslogs.log].MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.tailing.FileTailer [INFO] FileT
iler[fh:gen_logs_s3:/tmp/accesslogs.log]: Tailer Progress: Tailer has parsed 0 records (2380787 bytes), transformed 0 records, skipped 0 records, and has successfully
ent 0 records to destination.
022-03-08 03:58:35.611+0000  (Agent.MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.Agent [INFO] Agent: Progress: 0 records parsed (2380787 bytes), and 0 re
ords sent successfully to destinations. Uptime: 237007ms
022-03-08 03:59:05.609+0000  (FileTailer[fh:gen_logs_s3:/tmp/accesslogs.log].MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.tailing.FileTailer [INFO] FileT
iler[fh:gen_logs_s3:/tmp/accesslogs.log]: Tailer Progress: Tailer has parsed 0 records (2380787 bytes), transformed 0 records, skipped 0 records, and has successfully
ent 0 records to destination.
022-03-08 03:59:05.611+0000  (Agent.MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.Agent [INFO] Agent: Progress: 0 records parsed (2380787 bytes), and 0 re
ords sent successfully to destinations. Uptime: 240007ms
022-03-08 03:59:35.609+0000  (FileTailer[fh:gen_logs_s3:/tmp/accesslogs.log].MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.tailing.FileTailer [INFO] FileT
iler[fh:gen_logs_s3:/tmp/accesslogs.log]: Tailer Progress: Tailer has parsed 0 records (2380787 bytes), transformed 0 records, skipped 0 records, and has successfully
ent 0 records to destination.
022-03-08 03:59:35.611+0000  (Agent.MetricsEmitter RUNNING) com.amazon.kinesis.streaming.agent.Agent [INFO] Agent: Progress: 0 records parsed (2380787 bytes), and 0 re
ords sent successfully to destinations. Uptime: 243007ms
```


us-east-2.console.aws.amazon.com/s3/buckets/itv-genlogs1?prefix=logs2022/&region=us-east-2
Update
Apps
YouTube
Maps
anc
Entertainment
Manabadi
Cuemath Leap
Reading list
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Global
Indira
Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Amazon S3 > itv-genlogs1 > logs2022/
logs2022/
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