

Fluentbit with Opensearch Ingestion

前提条件

1. 创建好Provisioned Opensearch Domain(VPC Accessed)
 - a. 记得修改**Access policy**中的Deny为Allow.
2. 创建一台EC2 作为 Opensearch Dashboard Proxy. (记得安全组放开443端口)

```
sudo yum update
sudo yum install nginx
sudo service nginx start
```

参考https://github.com/huahua0601/OpenSearch_Dashboard_Nginx_Proxy 来进行配置Proxy, conf.d 下配置

```
server {
    listen 443 ssl;
    server_name localhost;

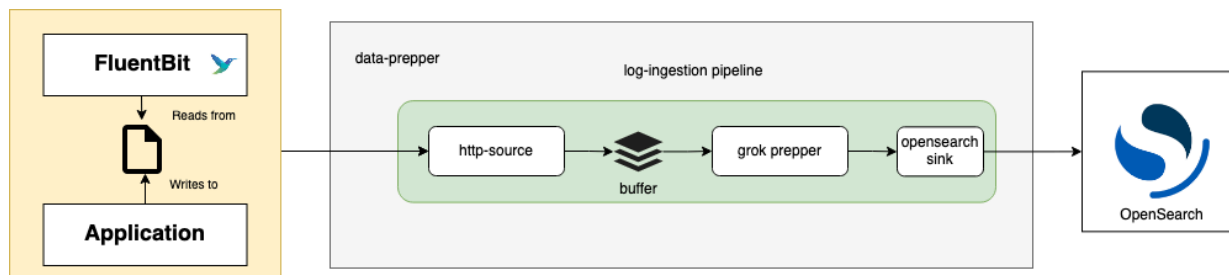
    ssl_certificate      /etc/nginx/self_signed_certificate.crt;
    ssl_certificate_key  /etc/nginx/public.key;

    location / {
        proxy_pass https://{host};
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;

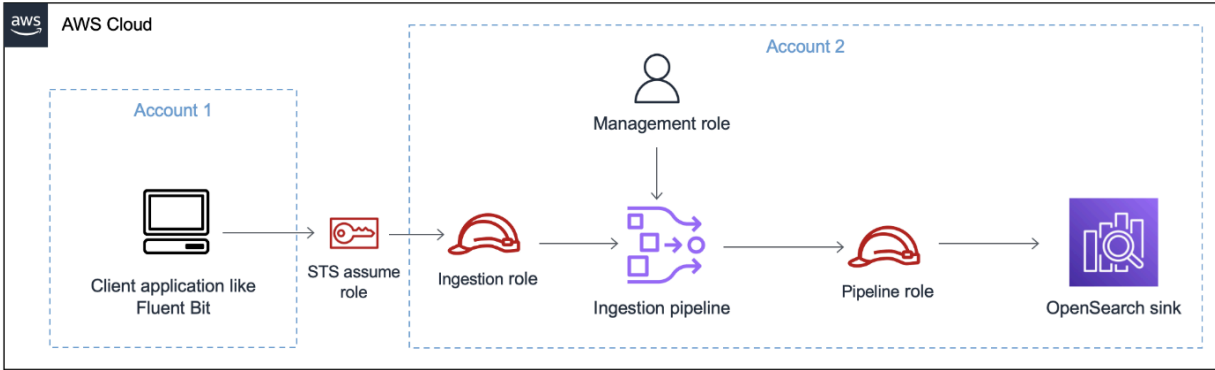
        # Ensure cookies are rewritten for correct domain
        proxy_cookie_domain {host} $host;

        # Handle redirects properly
        proxy_redirect https://{host} https://{host};
    }
}
```

部署过程

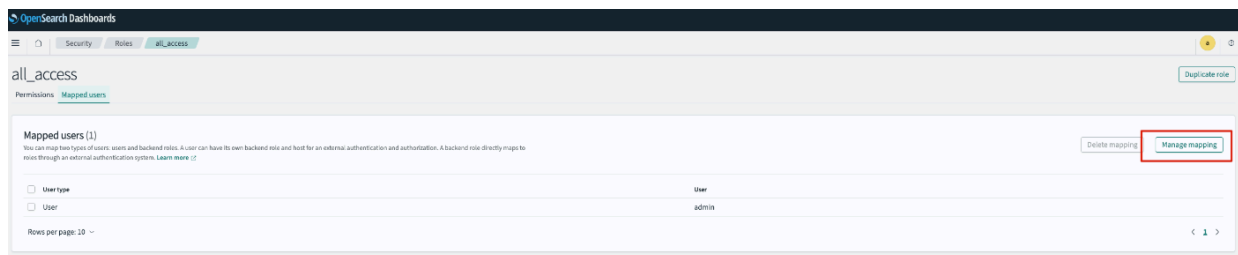
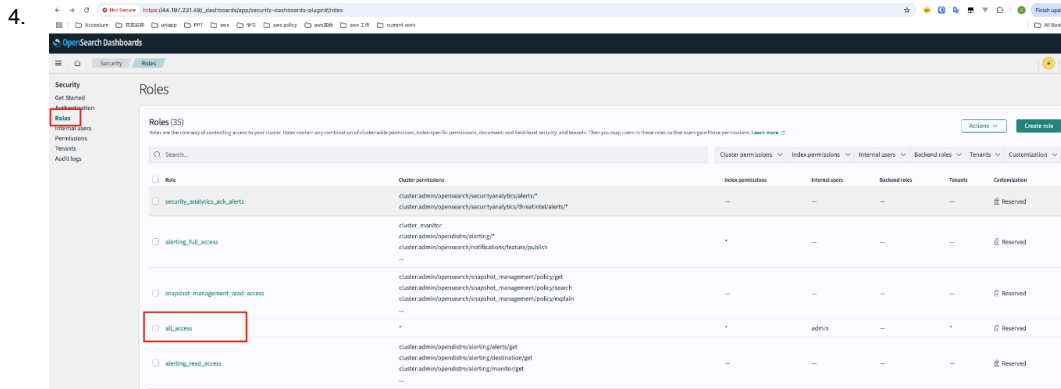


1. 参考[文章](#)创建Pipeline role和policy
2. 参考[文章](#)创建Ingestion Role



2. 参考文章: <https://docs.aws.amazon.com/opensearch-service/latest/developerguide/configure-client-fluentbit.html> 创建 Pipeline

3. Opensearch Dashboards 配置



5. Opensearch Ingestion 配置文件

```

{
  "version": "2",
  "unaggregated-log-pipeline": {
    "source": {
      "http": {
        "path": "/log/ingest"
      }
    },
    "processor": [
      {

```

```

        "grok": {
          "match": {
            "log": ["%{TIMESTAMP_ISO8601:timestamp}\\s+\\|\\|\\s+%{LOGLEVEL:level}\\s+\\|\\|\\s+%{HOSTNAME:hostname}\\s+\\|\\|\\s+%{SOURCEIP:sourceip}\\s+\\|\\|\\s+%{MESSAGE:message}"]
          }
        },
        {
          "date": {
            "from_time_received": true,
            "destination": "@timestamp"
          }
        }
      ],
      "sink": [
        {
          "opensearch": {
            "hosts": [
              "https://vpc-ingestion-test-ar3quly6s3yrh7lkvyqjqqqki3q.us-east-1.es.amazonaws.com"
            ],
            "index": "index_name",
            "index_type": "custom",
            "bulk_size": 20,
            "aws": {
              "sts_role_arn": "arn:aws:iam::715371302281:role/osis-pipeline-role",
              "region": "us-east-1"
            }
          }
        }
      ]
    }
  }
}

```

Fluentbit 配置文件:

```

[SERVICE]
    Flush                5
    Daemon               Off
    Log_Level            info
    log_file              /var/log/fluent-bit.log

[INPUT]
    Name                 tail
    Path                 /home/ec2-user/test.log
    Tag                  app.logs
    read_from_head       true

[FILTER]
    Name                 aws
    Match                *
    private_ip           true
    imds_version         v2
    hostname              true

```

```
ec2_instance_id    true
```

[OUTPUT]

```
Name http
Match *
Host fluentbit-pipeline-3xrdun24eq5ewj42z255gy37i4.us-east-1.osis.amazonaws.com
Port 443
URI /log/ingest
aws_auth true
aws_region us-east-1
aws_service osis
Log_Level info
tls On
```

t _id	_P1gFZQBw4bTVf48X-jI
t _index	index-2024.12.30
# _score	-
t _type	-
t az	us-east-1f
# date	1,735,525,424.044
t ec2_instance_id	i-0c5772412b6644f26
t hostname	ip-172-31-64-16.ec2.internal
t level	INFO
t log	2024-12-30 02:23:44,043 INFO Event-bus-5 n.i.a.m.U.M.OffSeasonUserMigrateD n begin uid 0000000000000000
t logger	n.i.a.m.U.M.OffSeasonUserMigrateDataService
t message	[MIGRATE] afterLogin begin uid 0000000000000000
t private_ip	172.31.64.16
t thread	Event-bus-5
t timestamp	2024-12-30 02:23:44,043

常用工具:

<https://grokconstructor.appspot.com/do/match#result>