Grafana Setup

Introduction

This document outlines installing grafana in AR environment.
Connecting grafana to two data soures (postgress , cloudwatch)

Security Groups

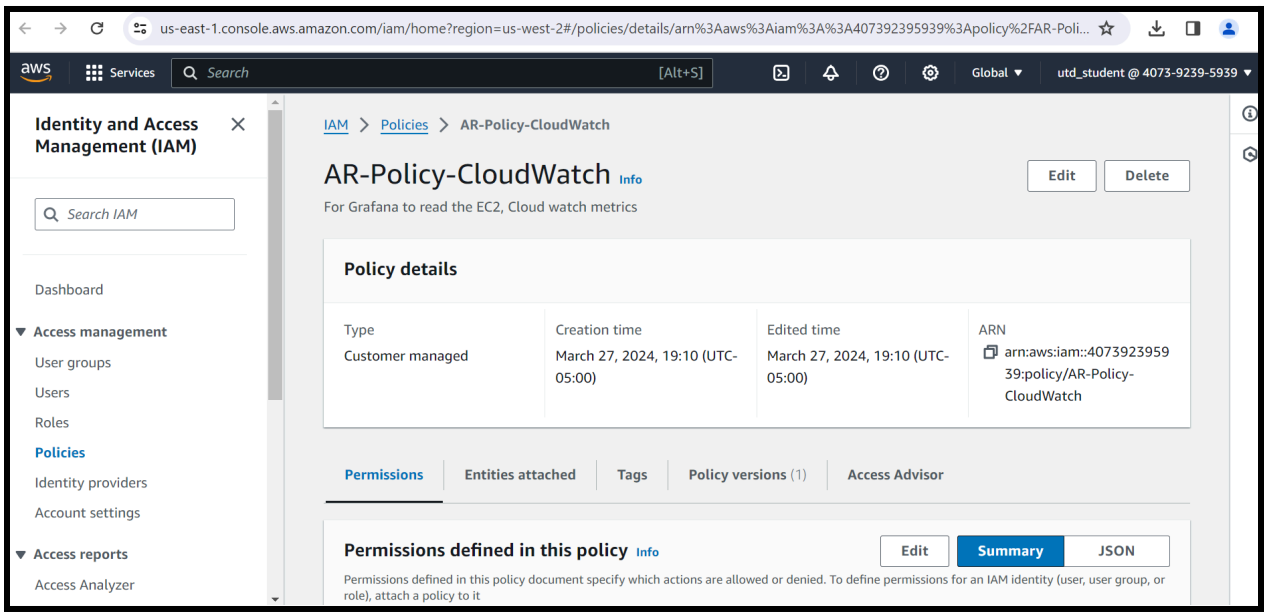
Port 3000 to access grafana. We can change the port as needed. Updated docker-compose.yaml

Installing Grafana

This is part of docker file. Refer docker-compose.yml

IAM Policy

Create policy



Sample Policy

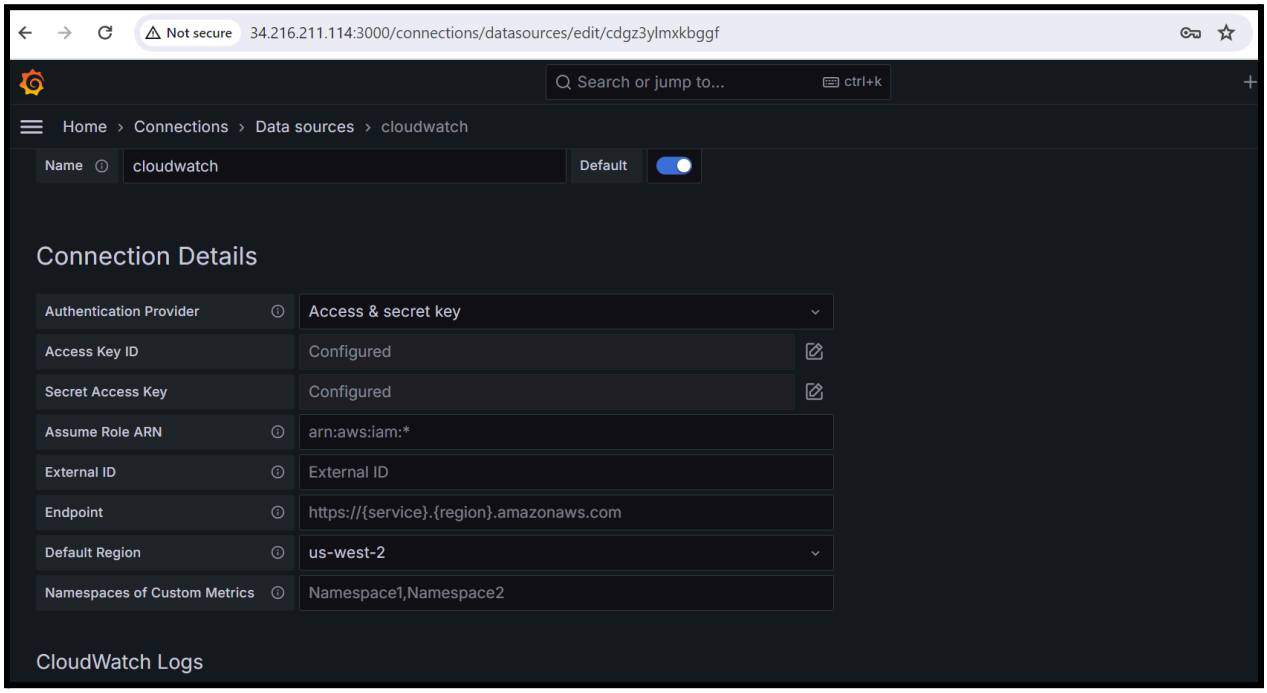
```
{
  "Version": "2012-10-17",
  "Statement": [
      {
          "Sid": "AllowReadingMetricsFromCloudWatch",
          "Effect": "Allow",
          "Action": [
              "cloudwatch:ListMetrics",
              "cloudwatch:GetMetricStatistics",
              "cloudwatch:GetMetricData"
          ],
          "Resource": "*"
      },
      {
          "Sid": "AllowReadingTagsInstancesRegionsFromEC2",
          "Effect": "Allow",
          "Action": [
              "ec2:DescribeTags",
              "ec2:DescribeInstances",
              "ec2:DescribeRegions"
```

```
            ],
            "Resource": "*"
        }
    ]
}
```

Connecting CloudWatch to Grafana

Create Cloud-Watch connection

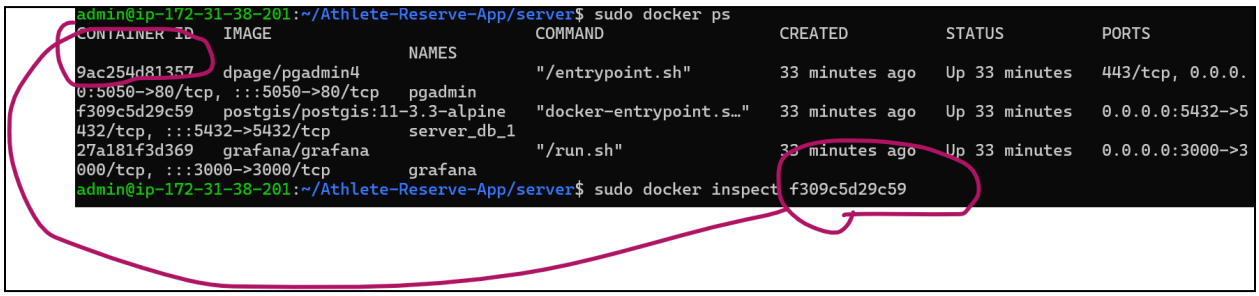
Authentication using Access and Secret key is not the best option.
But since we are connecting within the AWS as a Development POC



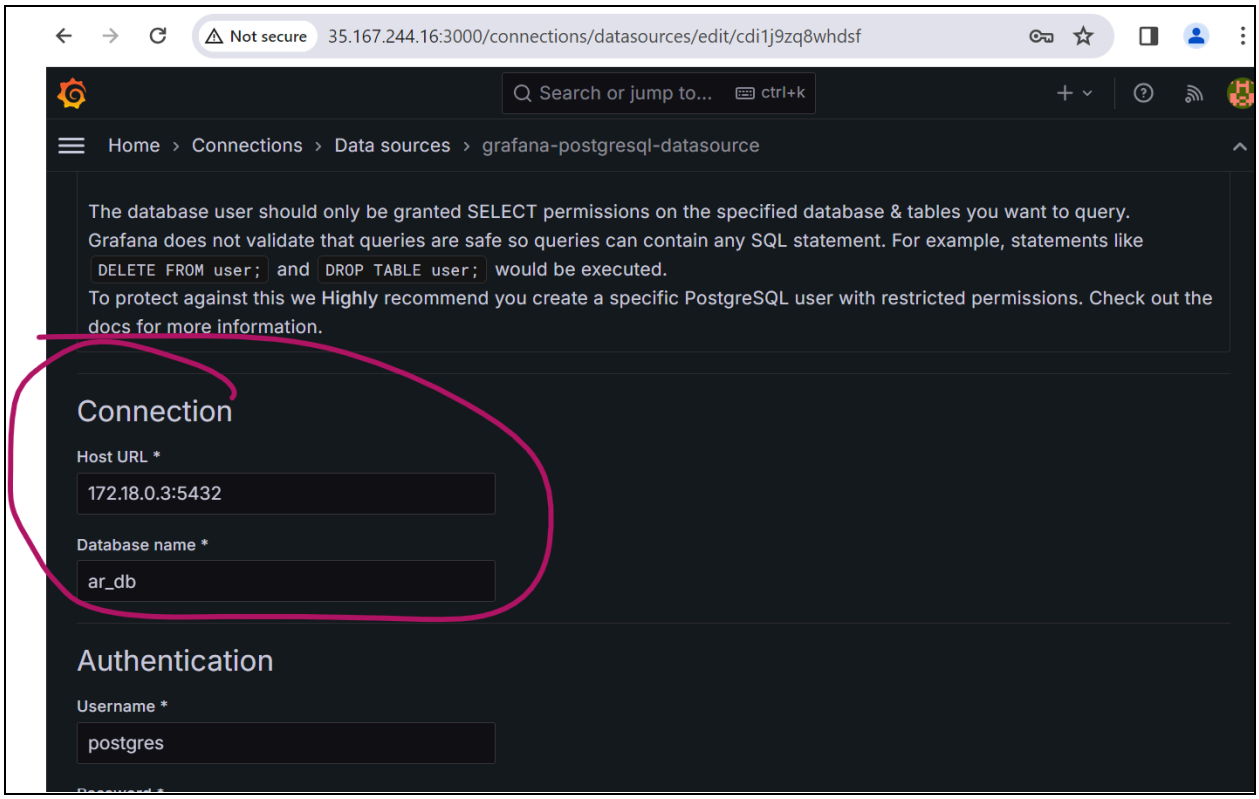
Import Ec2 metrics Dashboards

Connecting Grafana to Postgres

Obtain docker container IP

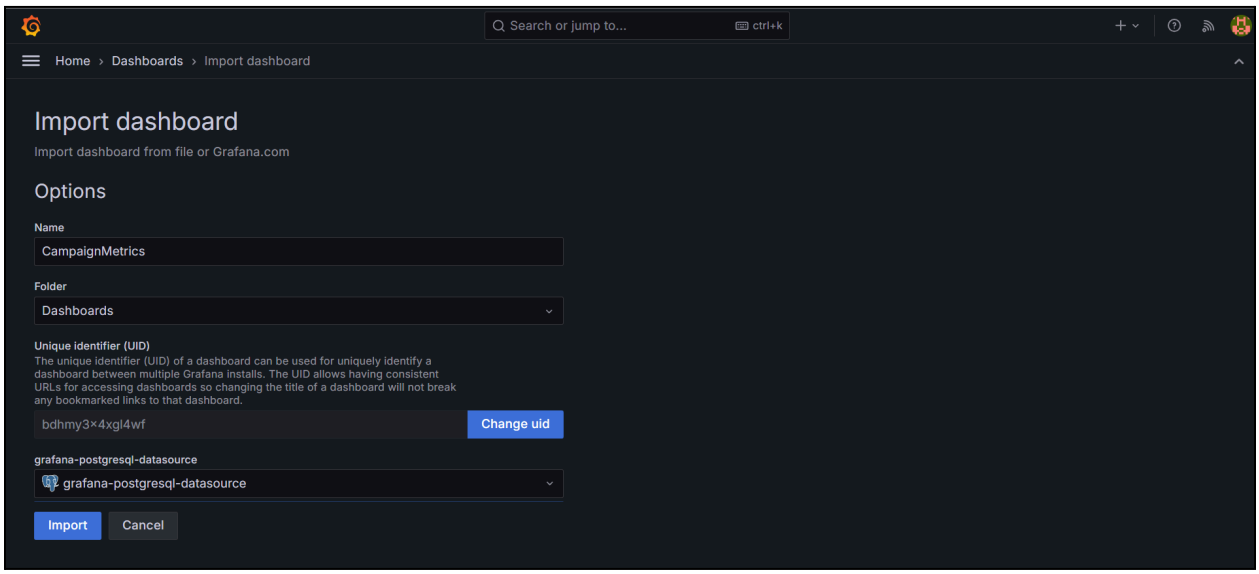


Connecting postgress DataSource



Importing Dashboards

Import->Upload JSON File(This will our repo/server/grafana/.json)

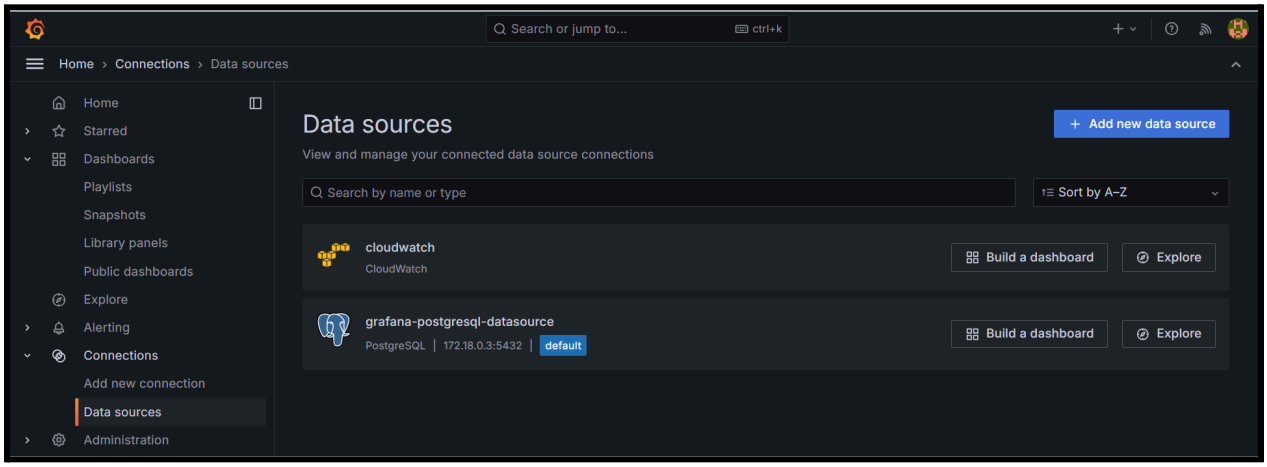


Pending DevOps Items

- Automate iam policy
- Automate sg groups related to grafana
- Automate creations of connections
- Automate installing dashboards in server/grafana/*.json files

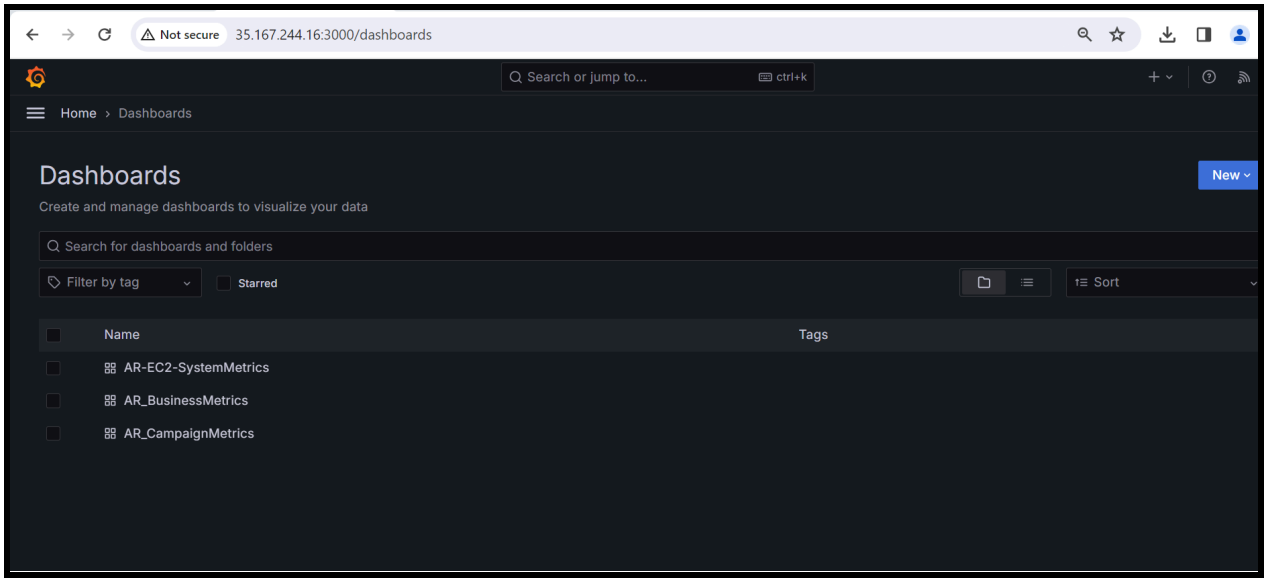
Final step

Validate two data sources



Dashboards

Import all json listed in server/grafana/*.json


Not secure
35.167.244.16:3000/dashboards
Search or jump to...
ctrl+k
Home › Dashboards
Dashboards
Create and manage dashboards to visualize your data
New
Search for dashboards and folders
Filter by tag
Starred
Sort
Name
Tags
AR-EC2-SystemMetrics
AR_BusinessMetrics
AR_CampaignMetrics