## 1. 目标

跨region的AOS snapshot恢复以及耗时。

注意：自动snapshot只在原集群，无法做跨集群的恢复。

Note that you can't use a PUT request in the Kibana console to register the repository.

## 2. 测试数据

100万条数据，1副本，3 primary shard 共16.6GB，加上副本一共33.2GB。

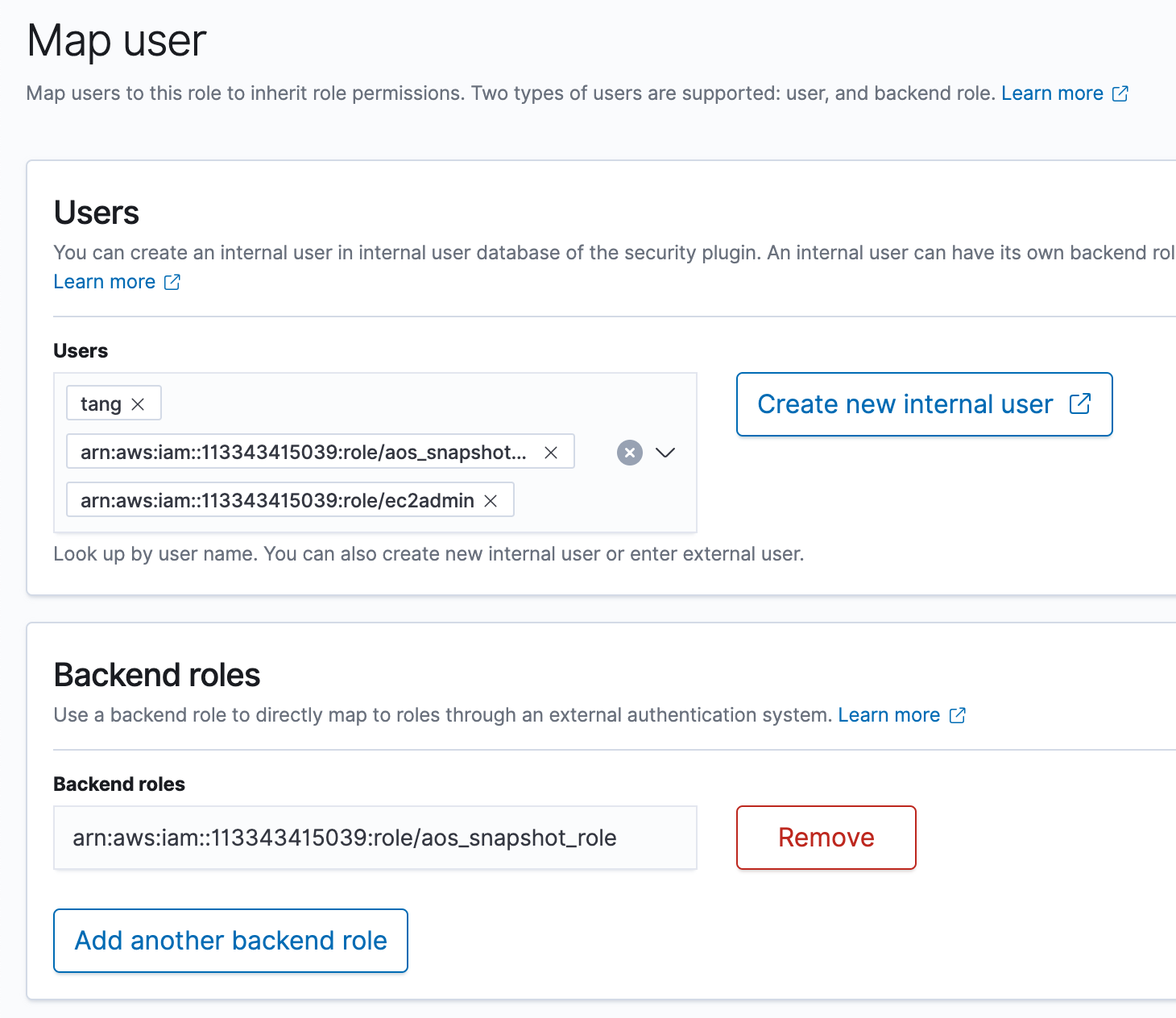
## 3. 注册repository

需要注意，注册repositry不能在dashboard完成，必须用signed request，例如python代码完成。

|  |
| --- |
| import boto3  import requests  from requests\_aws4auth import AWS4Auth  host = 'https://vpc-knn-4r272pshdggabtlhihabz7clba.ap-northeast-1.es.amazonaws.com'  region = 'ap-northeast-1' # e.g. us-west-1  service = 'es'  credentials = boto3.Session().get\_credentials()  awsauth = AWS4Auth(credentials.access\_key, credentials.secret\_key, region, service, session\_token=credentials.token)  # Register repository  path = '/\_snapshot/migrate-snapshot' # the OpenSearch API endpoint  url = host + path  payload = {  "type": "s3",  "settings": {  "bucket": "tang-opensearch",  "endpoint": "s3.amazonaws.com",  "role\_arn": "arn:aws:iam::113343415039:role/aos\_snapshot\_role"  }  }  headers = {"Content-Type": "application/json"}  r = requests.put(url, auth=awsauth, json=payload, headers=headers)  print(r.status\_code)  print(r.text) |

同时在aos里mapping manage\_snapshot给aos\_snapshot\_role（同时也要mapping backend role）。

例如发起api请求的机器，其绑定的role为ec2admin。它对应的backend roles为aos\_snapshot\_role：



## 4. 执行snapshot

耗时310s，5分钟：

|  |
| --- |
| PUT /\_snapshot/migrate-snapshot/gist\_bak  {  "indices": "gist"  }  GET /\_snapshot/\_status  DELETE \_snapshot/migrate-snapshot/gist\_bak |

## 5. 恢复snapshot

查看snapshot：

|  |
| --- |
| GET /\_snapshot?pretty  GET /\_snapshot/migrate-snapshot/\_all?pretty |

耗时1分40s左右：

|  |
| --- |
| POST /\_snapshot/migrate-snapshot/gist\_bak/\_restore |

此时只有primary shard，总大小为16.6GB。

跨region恢复耗时2分30s左右。