Case study : Multi-Account AWS EC2 Disk Utilization Monitoring

Background:

You are a Solutions architect at a large enterprise that utilizes AWS cloud services. The company has grown through acquisitions and now manages 3 separate AWS accounts, each containing numerous EC2 instances. The CTO has expressed concerns about potential disk space issues across these instances and wants a comprehensive solution to monitor disk utilization.

Assignment:

Company is internally using a configuration management tool (Ansible). Before investing into other tools, the company has decided to use Ansible to perform the required metric collection.

Design and outline a solution to fetch and report disk utilization from all EC2 instances across the 3 AWS accounts. Your solution should address the following points:

1. How would you centralize access and management of the 3 AWS accounts?

2. How would you aggregate the collected data from all accounts into a single, easily digestible format?

3. How would your solution scale if the company acquires more companies and AWS accounts in the future?

Deliverables :

> Provide a high-level architectural diagram of your proposed solution.
> Provide the ansible playbook
> Summarize the various component involved in the process