Task 4

The Project

Common Optimization Ideas

Situation	Recommendation
Using big EC2 instances 24x7	Use **Auto Scaling** or smaller instance types
EC2 used only during work hours	Use **Start/Stop schedules**
Not using an instance much	Switch to **Spot Instances** (90% cheaper)
Have many copies of files in S3	Use **S3 Lifecycle Rules** to delete or archive
Running dev/test 24x7	**Turn off when not needed** or use cheaper types

Tools that can help:

1. **<u>AWS Trusted Advisor</u>:**

   - Go to the AWS Console → search for **Trusted Advisor**.

   - It shows cost-saving recommendations like:

     - Idle resources

     - Underutilized EC2

     - Low S3 usage

2. **<u>Compute Optimizer</u>:**

   - AWS service that **analyzes EC2** and suggests:

     - Instance resizing

     - Switch to more efficient types

Monitor Cost Savings After Optimizing

To Track Improvements:

1. Go back to **Cost Explorer** after a few days or weeks.

2. Check:

   - Did the costs go down?

   - Which services reduced in cost?

You can also **set up Budgets**:

- Go to **Budgets** in the Billing menu.

- Set a monthly budget.

- Set alerts (email) if spending goes over limit.