**Part 1: Identify the Problem**

**Scenario**

You are tasked with developing a solution for automating the cleanup of unused AWS resources, such as:

* **EC2 Instances**: Instances running beyond their expected time of use.
* **Unattached EBS Volumes**: Volumes not attached to any running instances.
* **Idle S3 Buckets**: Buckets that have not been accessed for 30+ days.
* **Elastic IPs**: IPs that are not associated with any instance.
* **IAM Users and Roles**: Accounts or roles not used in the last 90 days.

The cleanup will save costs, improve security, and simplify resource management.

**Relevance to Cloud Computing**

This problem aligns with cloud infrastructure management, particularly in optimizing AWS services. The script uses Python to interact with AWS services via the **boto3** library, showcasing automation in cloud environments.

**Approach**

* **Libraries**: Python libraries such as boto3 (for AWS), InquirerPy (for CLI interaction), and logging (for process logging).
* **Challenges**: Managing AWS permissions, handling errors gracefully, and ensuring the script does not accidentally delete critical resources.
* **Value**: Learning to automate cloud management tasks with Python is a valuable skill for cloud professionals.