Simian Army

Adapter
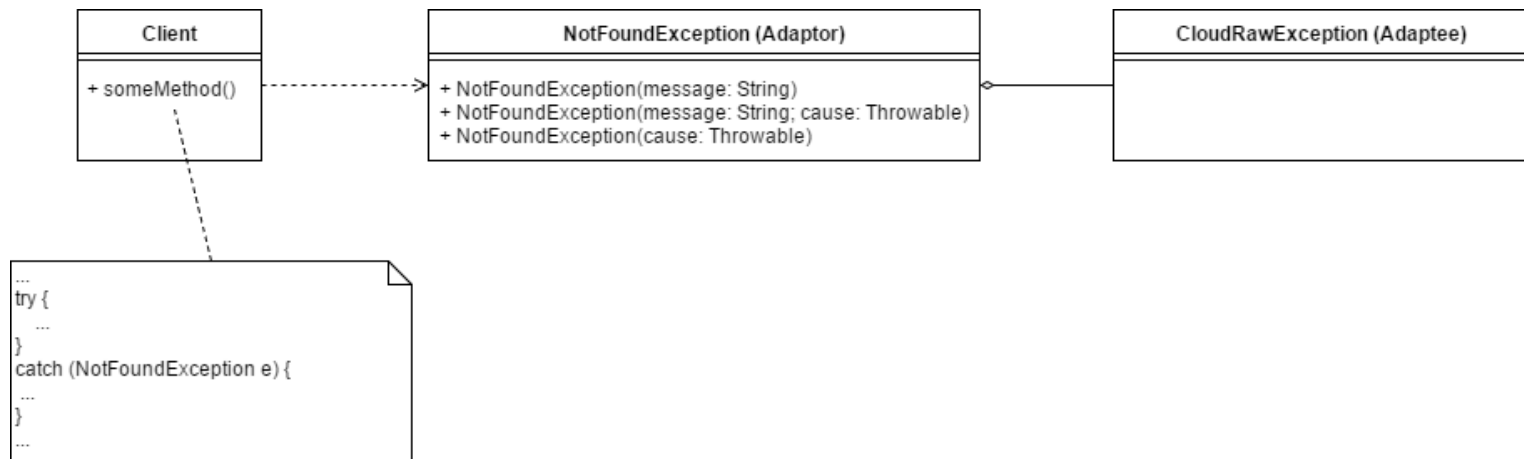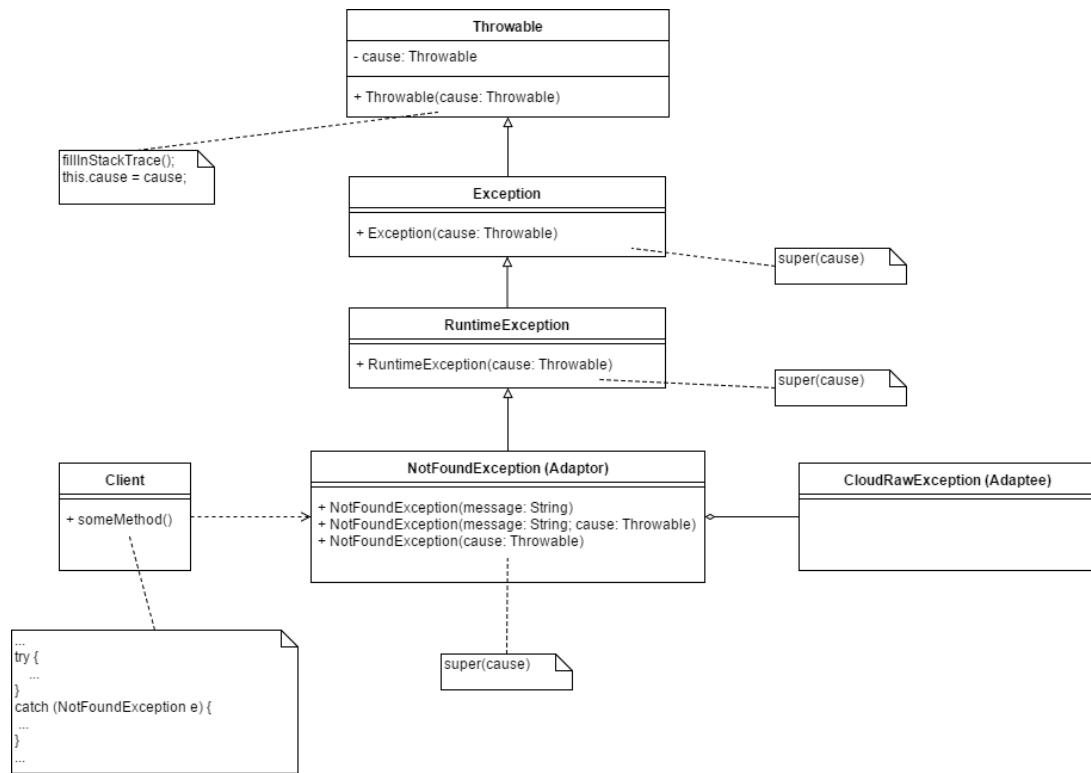
Scenario

- Simian Army defines a new class **NotFoundException**

- **Problem:** Some **outside** exceptions should also be classified as **NotFoundException**

- **Solution:** Use a wrapper to wrap those exceptions

Class diagram

Class diagram

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Inside SimianArmy

- terminateNow() in BasicChaosMonkey.java

```java
if (instances.size() == 1) {
    return terminateInstance(group, instances.iterator().next(), chaosType);
} else {
    throw new NotFoundException(String.format("No instance is found in group %s [type %s]",
            name, type));
}
```

Outside SimianArmy

- detachVolume() in AWSClient.java

```
} catch (AmazonServiceException e) {
    if (e.getErrorCode().equals("InvalidInstanceID.NotFound")) {
        throw new NotFoundException("AWS instance " + instanceId + " not found", e);
    }
    throw e;
}
```

Client

- addTerminationEvent() in ChaosMonkeyResource.java

```java
} catch (NotFoundException e) {
    // Available instance cannot be found to terminate, maybe the instance is already gone
    responseStatus = Response.Status.GONE;
    gen.writeStringField("message", e.getMessage());
}
```

- The client only needs to know the exception belongs to **NotFoundException**, the adapter hides all the other details.