

Benjamin Harris

AWS Database:

My API server allows for easy access to connect to and manipulate the data within the AWS Database. In the client-controller, storage-controller, and cloudComputing-controller there are all 4 CRUD methods available for use along with other methods such as add, which searches for clients with a particular ID. A new client may be added through the procedures-controller which accesses the procedure defined in SQL as sp\_NewClient. To find all of the services and costs related to a client ID one may use the method portfolio defined in the ViewsController class.

- Path Name: Get
- Path: <http://localhost:8049/api/v1/client/:id>
- Description: Call this route to see client with provided the ClientID

```
[harrisb@blue ~]$ curl -X GET http://localhost:8049/api/v1/client/11111
[
  {
    "ClientID": 11111,
    "name": "Costco",
    "cardInfo": "0394",
    "customerSince": "2021-10-30T02:20:46.000Z"
  }
]
[harrisb@blue ~]$
```

- Path Name: Put
- Path: <http://localhost:8049/api/v1/client/:id>
- Description: Call this route to update a Client's information with the provided ClientID

```
[harrisb@blue ~]$ curl -X PUT -H 'Content-type: application/json' -d '{"name":"Ben", "cardInfo":"6642"}' http://localhost:8049/api/v1/client/73314
{
  "name": "Ben",
  "cardInfo": "6642"
}
[harrisb@blue ~]$
```

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- Path Name: Post
- Path: <http://localhost:8049/api/v1/procedure/newClient>
- Description: Call this route to add a new client

```
[harrisb@blue AWSProcedures]$ curl -X POST -H 'Content-type: application/json' -d '{"ClientID": "27183", "ServiceID": "22019", "name": "James Strous", "services": "Amazon Elastic Block Store", "cardInfo": "6645", "email": "Whatever@seawolf.edu"}' http://localhost:8049/api/v1/procedure
{
  "ClientID": "27183",
  "ServiceID": "22019",
  "name": "James Strous",
  "services": "Amazon Elastic Block Store",
  "cardInfo": "6645",
  "email": "Whatever@seawolf.edu"
}
[harrisb@blue AWSProcedures]$ curl -X GET http://localhost:8049/api/v1/client/27183
[
  {
    "ClientID": 27183,
    "name": "James Strous",
    "cardInfo": "6645",
    "customerSince": "2021-11-20T23:04:05.000Z"
  }
]
[harrisb@blue AWSProcedures]$
```

- Path Name: Get
- Path: <http://localhost:8049/api/v1/cloudComputing/>
- Description: Call this route to see all the cloud computing services purchased by clients

```
[harrisb@blue ~]$ curl -X GET http://localhost:8049/api/v1/cloudComputing
[
  {
    "ComputingID": 1,
    "ServiceID": 98765,
    "services": "Amazon EC2 - Virtual Servers",
    "cost": 40000
  },
  {
    "ComputingID": 2,
    "ServiceID": 87654,
    "services": "Amazon Lightsail - Manage Servers",
    "cost": 25000
  },
  {
    "ComputingID": 3,
    "ServiceID": 65432,
    "services": "Amazon VMware Cloud",
    "cost": 30000
  },
  {
    "ComputingID": 4,
    "ServiceID": 54234,
    "services": "AWS Batch",
    "cost": 15000
  },
  {
    "ComputingID": 5,
    "ServiceID": 21424,
    "services": "Amazon Lambda",
    "cost": 10000
  }
]
```

- Path Name: Delete
- Path: `http://localhost:8049/api/v1/cloudComputing/:id`
- Description: Call this route to delete the cloud computing services purchased by the client with the provided the ServiceID

```
[harrisb@blue ~]$ curl -X DELETE http://localhost:8049/api/v1/cloudComputing/42423
Service with ID [42423] deleted.[harrisb@blue ~]$
```

- Path Name: Get
- Path: `http://localhost:8049/api/v1/storage/:id`
- Description: Call this route to see the storage services purchased by the client with the provided the ServiceID

```
[harrisb@blue ~]$ curl -X GET http://localhost:8049/api/v1/storage/52345
[
  {
    "StorageID": 11,
    "ServiceID": 52345,
    "services": "Amazon Elastic Block Store",
    "cost": 30000
  }
]
```

- Path Name: Delete
- Path: `http://localhost:8049/api/v1/storage/:id`
- Description: Call this route to delete the storage services purchased by the client with the provided the ServiceID

```
[harrisb@blue ~]$ curl -X DELETE http://localhost:8049/api/v1/storage/42326
Service with ID [42326] deleted.[harrisb@blue ~]$
```

- Path Name: Get
- Path: `http://localhost:8049/api/v1/portfolio/:id`
- Description: Call this route to show all of the services and costs related to a given client ID.

```
[harrisb@blue ~]$ curl -X GET http://localhost:8049/api/v1/views/portfolio/11111
[
  {
    "ClientID": 11111,
    "Computing Cost": 0,
    "Storage Cost": 2000,
    "Repository Storage Cost": 50,
    "Total Due": 2050
  }
]
```

- Path Name:
- Path: `http://localhost:8049/api/v1/views/displayServices`
- Description: Call this route to use a view to show all of the services provided by AWS

```
[harrisb@blue ~]$ curl -X GET http://localhost:8049/api/v1/views/displayServices
[
  {
    "services": "Amazon EC2 - Virtual Servers"
  },
  {
    "services": "Amazon Lightsail - Manage Servers"
  },
  {
    "services": "Amazon VMware Cloud"
  },
  {
    "services": "AWS Batch"
  },
  {
    "services": "Amazon Lambda"
  },
  {
    "services": "Amazon Storage Service"
  },
  {
    "services": "Amazon Glacier"
  },
  {
    "services": "Amazon Elastic File System"
  },
  {
    "services": "Amazon Elastic Block Store"
  },
  {
    "services": "Amazon Storage Gateway"
  }
]
```