

# Various-ChassisCollections

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Powered by [HPE DEV Team](#)

Version 0.2

## 0.1 Introduction

This Jupyter notebook retrieves the chassis collection of four server types: HPE ProLiant Gen10, OpenBMC based server, HPE Superdome Flex and HPE iLO Amplifier Pack.

## 0.2 Environment variables creation

```
[1]: echo "Creating environment variables"

ProLiant="https://ilo-etc1 ProLiant"
OpenBMC="https://fdz580g8:44300 OpenBMC"
Sdf="$SdfRmcURI SuperdomeFlex"
AmplifierPack="https://ah-636-rmc iLO_AmplifierPack"

# BNC / RM credentials
User="student"
Password='P@ssw0rd!'

# Minimum required Redfish headers
HeaderODataVersion="OData-Version: 4.0"
HeaderContentType="Content-Type: application/json"
```

Creating environment variables

## 0.3 Redfish Root Services discovery

```
[2]: echo "Redfish version implemented on a ${ProLiant##* }:"

curl --insecure --silent \
  --header "$HeaderContentType" --header "$HeaderODataVersion" \
  --request GET "${ProLiant%% *}"/redfish | jq
```

Redfish version implemented on a ProLiant:

```
{  
  "v1": "/redfish/v1/"  
}
```

```
[3]: echo "Root Services implemented on a ${ProLiant##* }:"
```

```
curl --insecure --silent \  
  --header "$HeaderContentType" --header "$HeaderODataVersion" \  
  --request GET "${ProLiant%% *}"/redfish/v1 | jq
```

Root Services implemented on a ProLiant:

```

{
  "@odata.context":
"/redfish/v1/$metadata#ServiceRoot.ServiceRoot",
  "@odata.etag": "W/\\"D3723753\\\"",
  "@odata.id": "/redfish/v1",
  "@odata.type":
"#ServiceRoot.v1_5_0.ServiceRoot",
  "Id": "RootService",
  "AccountService": {
    "@odata.id":
"/redfish/v1/AccountService"
  },
  "Chassis": {
    "@odata.id":
"/redfish/v1/Chassis"
  },
  "EventService": {
    "@odata.id":
"/redfish/v1/EventService"
  },
  "JsonSchemas": {
    "@odata.id":
"/redfish/v1/JsonSchemas"
  },
  "Links": {
    "Sessions": {
      "@odata.id":
"/redfish/v1/SessionService/Sessions"
    }
  },
  "Managers": {
    "@odata.id":
"/redfish/v1/Managers"
  },
  "Name": "HPE RESTful Root
Service"

```

## 0.4 Chassis collection examples

The following cell retrieves the Chassis collection from four Redfish server types:

```
[4]: for RedfishServer in "${ProLiant}" "${OpenBMC}" "${Sdf}" "${AmplifierPack}" ; do
    BMCURI=${RedfishServer%% *}
    ServerType=${RedfishServer### }

    echo "$ServerType chassis collection:"
    curl --insecure --silent \
        --user ${User}:${Password} \
        --header "$HeaderContentType" --header "$HeaderODataVersion" \
        --request GET ${BMCURI}/redfish/v1/Chassis | jq
    echo -e "\n\n"
done
```

ProLiant chassis collection:

```
{
  "@odata.context": "/redfish/v1/$metadata#ChassisCollection.ChassisCollection",
  "@odata.etag": "W/\"AA6D42B0\"",
  "@odata.id":
"/redfish/v1/Chassis",
  "@odata.type":
"#ChassisCollection.ChassisCollection",
  "Description": "Computer System Chassis
View",
  "Name": "Computer System Chassis",
  "Members": [
    {
      "@odata.id":
"/redfish/v1/Chassis/1"
    }
  ],
  "Members@odata.count": 1
}
```

OpenBMC chassis collection:

```
{
  "@odata.id":
  "/redfish/v1/Chassis",
  "@odata.type":
  "#ChassisCollection.ChassisCollection",
  "Members": [
    {
      "@odata.id":
      "/redfish/v1/Chassis/chassis"
    }
  ],
  "Members@odata.count": 1,
  "Name": "Chassis Collection"
}
```

SuperdomeFlex chassis collection:

iLO\_AmplifierPack chassis collection:

```

{
  "@odata.context": "/redfish/v1/$metadata#ChassisCollection.ChassisCollection",
  "@odata.etag":
"W/\\"610e00e2247afd6daf5281b126a977c4\\\"",
  "@odata.id":
"/redfish/v1/Chassis",
  "@odata.type":
"#ChassisCollection.ChassisCollection",
  "Members": [
    {
      "@odata.id":
"/redfish/v1/Chassis/RackGroup"
    },
    {
      "@odata.id":
"/redfish/v1/Chassis/Rack1"
    },
    {
      "@odata.id":
"/redfish/v1/Chassis/RMC"
    },
    {
      "@odata.id":
"/redfish/v1/Chassis/r001i01b"
    },
    {
      "@odata.id":
"/redfish/v1/Chassis/r001i06b"
    }
  ],
  "Members@odata.count": 5,
  "Name": "Chassis Collection"
}

```

