Examples with curl and jq to manage an ontap cluster

#install curl and jq
dnf install -y epel-release
dnf install -y curl
dnf install -y jq

some examples with grep------
curl --request GET "https://192.168.4.202/api/cluster?fields=version" --user admin:apix1234 -k | grep name
curl --request GET "https://192.168.4.202/api/storage/volumes" --user admin:apix1234 -k | grep name
curl --request GET "https://192.168.4.202/api/storage/aggregates" --user admin:apix1234 -k | grep name
curl --insecure --user admin:apix1234 https://cl2/api/svm/svms | grep name
#instead of grep us jq.-------
list records in array
curl --insecure --user admin:apix1234 "https://cl2/api/network/ethernet/ports?fields=uuid,name,type" -H "accept: application/hal+json" | jq -r '.records[].name'

#filter fields with jq
#list interfaces
curl --insecure --user admin:apix1234 "https://cl2/api/network/ip/interfaces/" | jq '.'

#list the names of the interfaces only
curl --insecure --user admin:apix1234 "https://cl2/api/network/ip/interfaces/" | jq -r '.records[].name'

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#list svms by name and uuid
curl --insecure --user admin:apix1234 https://cl2/api/svms | jq '.records[] | {name: .name, uuid: .uuid}'

#list volumes by name and uuid
curl --insecure --user admin:apix1234 https://cl2/api/storage/volumes | jq '.records[] | {name: .name, uuid: .uuid}'

#then list the size of that uuid.
curl --insecure --user admin:apix1234 https://cl2/api/storage/volumes/9d97a586-c29e-11f0-90c6-000c29aa4d0c/ | jq '{size: .size'}

#list interace names and uuids
curl --insecure --user admin:apix1234 "https://cl2/api/network/ip/interfaces/" | jq '.records[] | {name: .name, uuid: .uuid}'

curl --insecure --user admin:apix1234 "https://cl2/api/network/ip/interfaces/bef883b6-1ebe-11f0-ad10-000c29ffcf6b/" | jq '{name: .name, ip: .ip.address,port: .location.port.name, home: .location.home_port.name, svm: .svm.name }'

#-----ports----------
#to get all ports...
#gather uuids in a file
curl --insecure --user admin:apix1234 "https://cl2/api/network/ip/interfaces/" | grep uuid|awk -F: '{print $2}'|sed 's/"//g'|sed 's/,//'>uuids

#then loop
for i in `cat uuids`
do
curl -s --insecure --user admin:apix1234 "https://cl2/api/network/ip/interfaces/$i/" | jq '{name: .name, ip: .ip.address,port: .location.port.name, home: .location.home_port.name, svm: .svm.name }'
done

----volume example----
#create a volume, get its uuid and delete the volume
#create
curl -k -X POST -u admin:apix1234 "https://cl2/api/storage/volumes" -H "Content-Type: application/json" -d '{
"name": "s_volume",
"svm": {"name": "cl2_svm2"},
"size": "100mb",
"aggregates": [{"name": "n1_aggr1"}]
}'

#get the uid of the volume to delete.
curl --insecure --user admin:apix1234 https://cl2/api/storage/volumes | jq .

Let's say the uuid of the s_volume is "**4fd1c281-c29e-11f0-90c6-000c29aa4d0c**"
#delete a volume
curl -k -X DELETE -u admin:apix1234 "https://192.168.4.202/api/storage/volumes/4fd1c281-c29e-11f0-90c6-000c29aa4d0c" -H "accept: application/json"
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