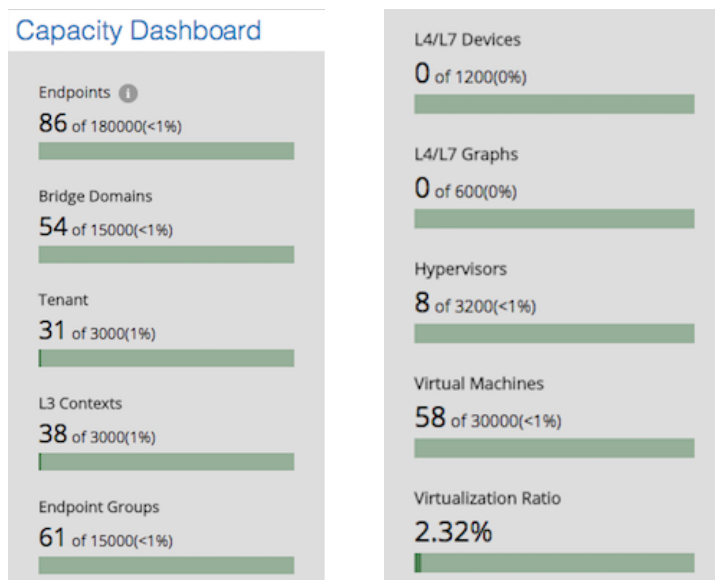


HOW TO GATHER THE CAPACITY DASHBOARD INFORMATION FROM OUTSIDE THE GUI?

Use Case Scenario:

Some Customers have requirements for providing visibility into available logical resource capacity and use for a Cloud / Automatic Programmable Network deployment based on ACI. Customers can use the GUI to view values presented in the *Operations -> Capacity Dashboard*, but they are looking to find a way to extract this information programmatically about Endpoints and EPGs.

We have not been able to find any documentation regarding objects that represent those values that could be queried. The last resort would be to reverse engineer queries that the *Operations -> Capacity Dashboard* sends to the APIC, but I was hoping there is a better documented source of information.



Usage Overview

Switch	VRF	BD	EPG	Mac (learned)	IPv4 (learned)	IPv6 (learned)	Multicast	Policy CAM	VLAN
pod-1/node-211	6% 12 of 200	<1% 8 of 3500	<1% 1 of 3500	<1% 17 of 12288	<1% 6 of 12288	<1% 2 of 8192	0% 0 of 8192	6% 263 of 4096	<1% 34 of 3500
pod-1/node-212	5% 10 of 200	<1% 5 of 3500	0% 0 of 3500	<1% 7 of 12288	<1% 1 of 12288	0% 0 of 8192	0% 0 of 8192	5% 239 of 4096	<1% 28 of 3500
pod-1/node-213	15% 30 of 200	1% 48 of 3500	1% 53 of 3500	<1% 110 of 12288	<1% 91 of 12288	<1% 41 of 8192	0% 0 of 8192	3% 1001 of 32768	3% 118 of 3500
pod-1/node-214	15% 30 of 200	1% 48 of 3500	1% 53 of 3500	<1% 105 of 12288	<1% 90 of 12288	<1% 41 of 8192	0% 0 of 8192	3% 998 of 32768	3% 118 of 3500
pod-1/node-215	4% 8 of 200	<1% 8 of 3500	<1% 4 of 3500	<1% 12 of 12288	<1% 5 of 12288	0% 0 of 8192	0% 0 of 8192	<1% 179 of 61440	<1% 12 of 3500
pod-1/node-216	4% 8 of 200	<1% 8 of 3500	<1% 4 of 3500	<1% 11 of 12288	<1% 5 of 12288	0% 0 of 8192	0% 0 of 8192	<1% 179 of 61440	<1% 12 of 3500

The Following examples were captured on a Fabric running an EFT Image of Danube.
Version -> **2.2(0.137i)**. APIC IP Address for this example is "**192.68.1.251**"

You can use the developer tools in your favorite browser to glean URLs to use with a REST API Utility like **POSTMAN**. Using the same browser developer tools, you can also glean the syntax examples for using "**curl**" to retrieve the ACI Capacity Dashboard Values.

HERE ARE SOME EXAMPLES:

ENDPOINTS

GET

https://192.68.1.251/api/class/fvCEp.json?rsp-subtree-include=count&_dc=1478828922683

```
{
  "totalCount": "1",
  "imdata": [
    {
      "moCount": {
        "attributes": {
          "childAction": "",
          "count": "86",
          "dn": "",
          "status": ""
        }
      }
    }
  ]
}
```

```
curl 'https://192.68.1.251/api/class/fvCEp.json?rsp-subtree-include=count&_dc=1478828916249' -H 'Cookie: APIC-preState=; APIC-cookie=SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoUOsdazZhzmLytGxqcQwDscedOsqv7LI8F40o2kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0HDCgrlfBwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' -H 'Accept-Encoding: gzip, deflate, sdch, br' -H 'Accept-Language: en-US,en;q=0.8' -H 'User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/54.0.2840.98 Safari/537.36' -H 'Accept: text/html,application/xhtml+xml,application/xml,application/json' -H 'Referer: https://192.68.1.251/' -H 'APIC-challenge: 726e8c46b27538624b4ea444551f063a0e1164f38909200b2f2af09538eb879f' -H 'X-Requested-With: XMLHttpRequest' -H 'Connection: keep-alive' -H 'DevCookie: SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoUOsdazZhzmLytGxqcQwDscedOsqv7LI8F40o2kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0HDCgrlfBwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' --compressed --insecure
```

```
{"totalCount": "1", "imdata": [{"moCount": {"attributes": {"childAction": "", "count": "86", "dn": "", "status": ""}}]}
```

BRIDGE DOMAINS

GET

https://192.68.1.251/api/class/fvBD.json?rsp-subtree-include=count&_dc=1478828916248

```
{
  "totalCount": "1",
  "imdata": [
    {
      "moCount": {
        "attributes": {
          "childAction": "",
          "count": "54",
          "dn": "",
          "status": ""
        }
      }
    }
  ]
}
```

```
curl 'https://192.68.1.251/api/class/fvBD.json?rsp-subtree-include=count&_dc=1478828922682'
-H 'Cookie: APIC-preState=; APIC-
cookie=SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoUosdazZhziMLytGxqcQwDscedOsqv7LI
8F40o2kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0
HDCgrlfBwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' -H 'Accept-Encoding:
gzip, deflate, sdch, br' -H 'Accept-Language: en-US,en;q=0.8' -H 'User-Agent: Mozilla/5.0
(Macintosh; Intel Mac OS X 10_12_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
54.0.2840.98 Safari/537.36' -H 'Accept: text/html,application/xhtml+xml,application/
xml,application/json' -H 'Referer: https://192.68.1.251/' -H 'APIC-challenge:
726e8c46b27538624b4ea444551f063a0e1164f38909200b2f2af09538eb879f' -H 'X-Requested-
With: XMLHttpRequest' -H 'Connection: keep-alive' -H 'DevCookie:
SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoUosdazZhziMLytGxqcQwDscedOsqv7LI8F40o2
kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0HDCgrlf
Bwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' --compressed --insecure
```

```
{"totalCount": "1", "imdata": [{"moCount": {"attributes":
{"childAction": "", "count": "54", "dn": "", "status": ""}}]}
```

TENANTS

GET

https://192.68.1.251/api/class/fvTenant.json?rsp-subtree-include=count&_dc=1478828916249

```
{
  "totalCount": "1",
  "imdata": [
    {
      "moCount": {
        "attributes": {
          "childAction": "",
          "count": "31",
          "dn": "",
          "status": ""
        }
      }
    }
  ]
}
```

```
curl 'https://192.68.1.251/api/class/fvTenant.json?rsp-subtree-include=count&_dc=1478828922683' -H 'Cookie: APIC-preState=; APIC-cookie=SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoUosdazZhzmLyTGxqcQwDscedOsqv7LI8F40o2kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0HDCgrlfBwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' -H 'Accept-Encoding: gzip, deflate, sdch, br' -H 'Accept-Language: en-US,en;q=0.8' -H 'User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/54.0.2840.98 Safari/537.36' -H 'Accept: text/html,application/xhtml+xml,application/xml,application/json' -H 'Referer: https://192.68.1.251/' -H 'APIC-challenge: 726e8c46b27538624b4ea444551f063a0e1164f38909200b2f2af09538eb879f' -H 'X-Requested-With: XMLHttpRequest' -H 'Connection: keep-alive' -H 'DevCookie: SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoUosdazZhzmLyTGxqcQwDscedOsqv7LI8F40o2kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0HDCgrlfBwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' --compressed --insecure
```

```
{"totalCount": "1", "imdata": [{"moCount": {"attributes": {"childAction": "", "count": "31", "dn": "", "status": ""}}]}
```

L3 CONTEXTS

GET

https://192.68.1.251/api/class/fvCtx.json?rsp-subtree-include=count&_dc=1478828916248

```
{
  "totalCount": "1",
  "imdata": [
    {
      "moCount": {
        "attributes": {
          "childAction": "",
          "count": "38",
          "dn": "",
          "status": ""
        }
      }
    }
  ]
}
```

```
curl 'https://192.68.1.251/api/class/fvCtx.json?rsp-subtree-include=count&_dc=1478828922682'
-H 'Cookie: APIC-preState=; APIC-
cookie=SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoOsdazZhziMLytGxqcQwDscedOsqv7LI
8F40o2kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0
HDCgrlfBwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' -H 'Accept-Encoding:
gzip, deflate, sdch, br' -H 'Accept-Language: en-US,en;q=0.8' -H 'User-Agent: Mozilla/5.0
(Macintosh; Intel Mac OS X 10_12_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
54.0.2840.98 Safari/537.36' -H 'Accept: text/html,application/xhtml+xml,application/
xml,application/json' -H 'Referer: https://192.68.1.251/' -H 'APIC-challenge:
726e8c46b27538624b4ea444551f063a0e1164f38909200b2f2af09538eb879f' -H 'X-Requested-
With: XMLHttpRequest' -H 'Connection: keep-alive' -H 'DevCookie:
SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoOsdazZhziMLytGxqcQwDscedOsqv7LI8F40o2
kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0HDCgrlf
Bwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' --compressed --insecure
```

```
{"totalCount": "1", "imdata": [{"moCount": {"attributes":
{"childAction": "", "count": "38", "dn": "", "status": ""}}]}
```

ENDPOINT GROUPS

GET

https://192.68.1.251/api/class/fvAEPg.json?rsp-subtree-include=count&_dc=1478828916248

```
{
  "totalCount": "1",
  "imdata": [
    {
      "moCount": {
        "attributes": {
          "childAction": "",
          "count": "61",
          "dn": "",
          "status": ""
        }
      }
    }
  ]
}
```

```
curl 'https://192.68.1.251/api/class/fvAEPg.json?rsp-subtree-include=count&_dc=1478828916248' -H 'Cookie: APIC-preState=; APIC-cookie=SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoUosdazZhziMLytGxqcQwDscedOsqv7LI8F40o2kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0HDCgrlfBwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' -H 'Accept-Encoding: gzip, deflate, sdch, br' -H 'Accept-Language: en-US,en;q=0.8' -H 'User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/54.0.2840.98 Safari/537.36' -H 'Accept: text/html,application/xhtml+xml,application/xml,application/json' -H 'Referer: https://192.68.1.251/' -H 'APIC-challenge: 726e8c46b27538624b4ea444551f063a0e1164f38909200b2f2af09538eb879f' -H 'X-Requested-With: XMLHttpRequest' -H 'Connection: keep-alive' -H 'DevCookie: SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoUosdazZhziMLytGxqcQwDscedOsqv7LI8F40o2kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0HDCgrlfBwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' --compressed --insecure
```

```
{\"totalCount\":\"1\", \"imdata\": [{\"moCount\": {\"attributes\": {\"childAction\": \"\", \"count\": \"61\", \"dn\": \"\", \"status\": \"\"}}}]}
```

L4/L7 DEVICES

GET

https://192.68.1.251/api/class/vnsCDev.json?rsp-subtree-include=count&_dc=1478828922683

```
{
  "totalCount": "1",
  "imdata": [
    {
      "moCount": {
        "attributes": {
          "childAction": "",
          "count": "0",
          "dn": "",
          "status": ""
        }
      }
    }
  ]
}
```

```
curl 'https://192.68.1.251/api/class/vnsCDev.json?rsp-subtree-include=count&_dc=1478828922683' -H 'Cookie: APIC-preState=; APIC-cookie=SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoUosdazZhzmLyTGxqcQwDscedOsqv7LI8F40o2kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0HDCgrlfBwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' -H 'Accept-Encoding: gzip, deflate, sdch, br' -H 'Accept-Language: en-US,en;q=0.8' -H 'User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/54.0.2840.98 Safari/537.36' -H 'Accept: text/html,application/xhtml+xml,application/xml,application/json' -H 'Referer: https://192.68.1.251/' -H 'APIC-challenge: 726e8c46b27538624b4ea444551f063a0e1164f38909200b2f2af09538eb879f' -H 'X-Requested-With: XMLHttpRequest' -H 'Connection: keep-alive' -H 'DevCookie: SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoUosdazZhzmLyTGxqcQwDscedOsqv7LI8F40o2kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0HDCgrlfBwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' --compressed --insecure
```

```
{\"totalCount\":\"1\",\"imdata\":[{\"moCount\":{\"attributes\":{\"childAction\":\"\",\"count\":\"0\",\"dn\":\"\",\"status\":\"\"}}}]}
```

L4/L7 GRAPHS

GET

https://192.68.1.251/api/class/vnsGraphInst.json?rsp-subtree-include=count&_dc=1478828922684

```
{
  "totalCount": "1",
  "imdata": [
    {
      "moCount": {
        "attributes": {
          "childAction": "",
          "count": "0",
          "dn": "",
          "status": ""
        }
      }
    }
  ]
}
```

```
curl 'https://192.68.1.251/api/class/vnsGraphInst.json?rsp-subtree-include=count&_dc=1478828922684' -H 'Cookie: APIC-preState=; APIC-cookie=SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoUosdazZhziMLytGxqcQwDscedOsqv7LI8F40o2kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0HDCgrlfBwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' -H 'Accept-Encoding: gzip, deflate, sdch, br' -H 'Accept-Language: en-US,en;q=0.8' -H 'User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/54.0.2840.98 Safari/537.36' -H 'Accept: text/html,application/xhtml+xml,application/xml,application/json' -H 'Referer: https://192.68.1.251/' -H 'APIC-challenge: 726e8c46b27538624b4ea444551f063a0e1164f38909200b2f2af09538eb879f' -H 'X-Requested-With: XMLHttpRequest' -H 'Connection: keep-alive' -H 'DevCookie: SDPhAuj7kE+bYiu0iLotjQO+xX0VKyoH3KIHytoUosdazZhziMLytGxqcQwDscedOsqv7LI8F40o2kX4wbkhqhYZaUOEwXBNhapObsDWzS4AY9Rtg9Qd85RzPsRn1FGyM1mKA2i4LUH0HDCgrlfBwvbat4dFUMowpSeOwldK2G/RTaQoNSmGFDZ8NbVoNJQV' --compressed --insecure
```

```
{"totalCount": "1", "imdata": [{"moCount": {"attributes": {"childAction": "", "count": "0", "dn": "", "status": ""}}]}
```


HYPERVISORS, VIRTUAL MACHINES, VIRTUALIZATION RATIO

GET

https://192.68.1.251/mqapi2/deployment.query.json?mode=getvmmCapInfo&_dc=1478831648388

```
{
  "imdata": [
    {
      "vmmCapInfo": {
        "attributes": {
          "dn": "synthuni/cap-vmmCapInfo",
          "lcOwn": "local",
          "name": "vmmCapInfo",
          "nameAlias": "",
          "countVms": "58",
          "nodelId": "0",
          "countHvs": "8",
          "status": "created,modified",
          "countVmsPerHv": "7.25",
          "modTs": "never",
          "virt": "0.0232558139535",
          "uid": "",
          "rn": "cap-vmmCapInfo",
          "childAction": ""
        }
      }
    }
  ],
  "totalCount": "1"
}
```

```
curl 'https://192.68.1.251/mqapi2/deployment.query.json?mode=getvmmCapInfo&_dc=1478831648388' -H 'Cookie: APIC-preState=; APIC-cookie=SDPhAuj7kE+bYiu0iLotjeBf7SpRAJmqGYQLLuVxN+Tz8ihK98E3dmwYPhy9km0VAHZBSlrb8/epnyzWnwKrXCCm4tp15uV3mWfQnAhqwpcMnDRkHr1KJt8MQt4/fbHTJBCdoc4YFAP7DVk9RpEa4zYPofqEbO2s75HyZA+mXwvO2xttbmsi4Kh0BMrkeAD' -H 'Accept-Encoding: gzip, deflate, sdch, br' -H 'Accept-Language: en-US,en;q=0.8' -H 'User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/54.0.2840.98 Safari/537.36' -H 'Accept: text/html,application/xhtml+xml,application/xml,application/json' -H 'Referer: https://192.68.1.251/' -H 'APIC-challenge: 726e8c46b27538624b4ea444551f063a0e1164f38909200b2f2af09538eb879f' -H 'X-Requested-With: XMLHttpRequest' -H 'Connection: keep-alive' -H 'DevCookie: SDPhAuj7kE+bYiu0iLotjeBf7SpRAJmqGYQLLuVxN+Tz8ihK98E3dmwYPhy9km0VAHZBSlrb8/epnyzWnwKrXCCm4tp15uV3mWfQnAhqwpcMnDRkHr1KJt8MQt4/fbHTJBCdoc4YFAP7DVk9RpEa4zYPofqEbO2s75HyZA+mXwvO2xttbmsi4Kh0BMrkeAD' --compressed --insecure
```

```
{
  "imdata": [
    {
      "vmmCapInfo": {
        "attributes": {
          "dn": "synthuni/cap-vmmCapInfo",
          "lcOwn": "local",
          "name": "vmmCapInfo",
          "nameAlias": "",
          "countVms": "58",
          "nodeId": "0",
          "countHvs": "8",
          "status": "created,modified",
          "countVmsPerHv": "7.25",
          "modTs": "never",
          "virt": "0.0232558139535",
          "uid": "",
          "rn": "cap-vmmCapInfo",
          "childAction": ""
        }
      }
    }
  ],
  "totalCount": "1"
}
```

USAGE OVERVIEW (For Each Node)

GET

https://192.68.1.251/api/class/eqptcapacityEntity.json?query-target=self&rsp-subtree-include=stats&rsp-subtree-class=eqptcapacityMcastUsage5min,eqptcapacityL3UsageCap5min,eqptcapacityL3Usage5min,eqptcapacityL2Usage5min,eqptcapacityVlanUsage5min,eqptcapacityPolUsage5min&_dc=1478830232935

```
curl 'https://192.68.1.251/api/class/eqptcapacityEntity.json?query-target=self&rsp-subtree-include=stats&rsp-subtree-class=eqptcapacityMcastUsage5min,eqptcapacityL3UsageCap5min,eqptcapacityL3Usage5min,eqptcapacityL2Usage5min,eqptcapacityVlanUsage5min,eqptcapacityPolUsage5min&_dc=1478830232935' -H 'Cookie: APIC-preState=; APIC-cookie=SDPhAuj7kE+bYiu0iLotjTZhtKPhIWgWBN6rj5exv9osqukdYtBLj3JcVb+EOB7LwZxmP2rktUE0DnNsOYK5SRuizgJNHA2HB5WKryZR+fGGjptdrBYbY5QGJ4Y1NWjtZBakSt5n4x48QjqE1fptR1b5SPPeNu5v0ImAFQKVlyrfrfqF7MwxJsF5ZNw1uJr' -H 'Accept-Encoding: gzip, deflate, sdch, br' -H 'Accept-Language: en-US,en;q=0.8' -H 'User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/54.0.2840.98 Safari/537.36' -H 'Accept: text/html,application/xhtml+xml,application/xml,application/json' -H 'Referer: https://192.68.1.251/' -H 'APIC-challenge: 726e8c46b27538624b4ea444551f063a0e1164f38909200b2f2af09538eb879f' -H 'X-Requested-With: XMLHttpRequest' -H 'Connection: keep-alive' -H 'DevCookie: SDPhAuj7kE+bYiu0iLotjTZhtKPhIWgWBN6rj5exv9osqukdYtBLj3JcVb+EOB7LwZxmP2rktUE0DnNsOYK5SRuizgJNHA2HB5WKryZR+fGGjptdrBYbY5QGJ4Y1NWjtZBakSt5n4x48QjqE1fptR1b5SPPeNu5v0ImAFQKVlyrfrfqF7MwxJsF5ZNw1uJr' --compressed --insecure
```

NODE DETAILED USAGE INFORMATION

NOTE: Simply substitute the "nodeid" for the other switch nodes in the fabric

Node-213

GET

https://192.68.1.251/mqapi2/deployment.query.json?mode=getvmmCapInfo&nodeid=213&_dc=1478830600242

```
{
  "imdata": [
    {
      "vmmCapInfo": {
        "attributes": {
          "dn": "synthuni/cap-vmmCapInfo",
          "lcOwn": "local",
          "name": "vmmCapInfo",
          "nameAlias": "",
          "countVms": "61",
          "nodeId": "213",
          "countHvs": "8",
          "status": "created,modified",
          "countVmsPerHv": "7.625",
          "modTs": "never",
          "virt": "0.0232558139535",
          "uid": "",
          "rn": "cap-vmmCapInfo",
          "childAction": ""
        }
      }
    }
  ],
  "totalCount": "1"
}
```

```
curl 'https://192.68.1.251/mqapi2/deployment.query.json?mode=getvmmCapInfo&nodeid=213&_dc=1478830600242' -H 'Cookie: APIC-preState=; APIC-cookie=SDPhAuj7kE+bYiu0iLotjVzT19Yulan9RXg9IMEpjQ5ZE7tpBcbcmiFwoezsuoKdGdXYtsCVoEKBEXFzZVKkG9Smf96QpAi5dENJuTAKqjSrTh1hnU1V/0koPUvdUHR5YJMoki1MHTfwcL5667O8efq/W318dc7Z4RYoFd28st6mGXYZIc+XxdvqlA9xcKGI' -H 'Accept-Encoding: gzip, deflate, sdch, br' -H 'Accept-Language: en-US,en;q=0.8' -H 'User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/54.0.2840.98 Safari/537.36' -H 'Accept: text/html,application/xhtml+xml,application/xml,application/json' -H 'Referer: https://192.68.1.251/' -H 'APIC-challenge: 726e8c46b27538624b4ea444551f063a0e1164f38909200b2f2af09538eb879f' -H 'X-Requested-With: XMLHttpRequest' -H 'Connection: keep-alive' -H 'DevCookie:'
```

```
SDPhAuj7kE+bYiu0iLotjVzT19Yulan9RXg9IMEpjQ5ZE7tpBcbcmiFwoezsuuKdGdXYtsCVoEKB
EXFzZVkkG9Smf96QpAi5dENJuTAKqjSrTh1hnU1V/
0koPUvdUHR5YJMoki1MHTfwcL5667O8efq/
W3l8dc7Z4RYoFd28st6mGXYZlc+XxdvqlA9xcKGI' --compressed --insecure
```

```
{"imdata": [{"vmmCapInfo": {"attributes": {"dn": "synthuni/cap-vmmCapInfo", "lcOwn": "local",
"name": "vmmCapInfo", "nameAlias": "", "countVms": "61", "nodeId": "213", "countHvs": "8",
"status": "created,modified", "countVmsPerHv": "7.625", "modTs": "never", "virt":
"0.0232558139535", "uid": "", "rn": "cap-vmmCapInfo", "childAction": ""}}}], "totalCount": "1"}
```

FABRIC NODE INFORMATION

GET

[https://192.68.1.251/api/class/fabricNode.json?query-target-filter=eq\(fabricNode.role,%22leaf%22\)&_dc=1478830232767](https://192.68.1.251/api/class/fabricNode.json?query-target-filter=eq(fabricNode.role,%22leaf%22)&_dc=1478830232767)

```
{
  "totalCount": "6",
  "imdata": [
    {
      "fabricNode": {
        "attributes": {
          "adSt": "on",
          "childAction": "",
          "delayedHeartbeat": "no",
          "dn": "topology/pod-1/node-212",
          "fabricSt": "active",
          "id": "212",
          "lcOwn": "local",
          "modTs": "2016-10-28T22:44:59.946-05:00",
          "model": "N9K-C9396PX",
          "monPolDn": "uni/fabric/monfab-default",
          "name": "rtp-f2-p1-leaf2",
          "nameAlias": "",
          "role": "leaf",
          "serial": "SAL17236LZ2",
          "status": "",
          "uid": "0",
          "vendor": "Cisco Systems, Inc",
          "version": ""
        }
      }
    }
  ],
}
```

```

{
  "fabricNode": {
    "attributes": {
      "adSt": "on",
      "childAction": "",
      "delayedHeartbeat": "no",
      "dn": "topology/pod-1/node-213",
      "fabricSt": "active",
      "id": "213",
      "lcOwn": "local",
      "modTs": "2016-11-06T22:08:41.343-05:00",
      "model": "N9K-C93128TX",
      "monPolDn": "uni/fabric/monfab-default",
      "name": "rtp-f2-p1-leaf3",
      "nameAlias": "",
      "role": "leaf",
      "serial": "SAL1816QWKS",
      "status": "",
      "uid": "0",
      "vendor": "Cisco Systems, Inc",
      "version": ""
    }
  }
},
{
  "fabricNode": {
    "attributes": {
      "adSt": "on",
      "childAction": "",
      "delayedHeartbeat": "no",
      "dn": "topology/pod-1/node-216",
      "fabricSt": "active",
      "id": "216",
      "lcOwn": "local",
      "modTs": "2016-11-09T08:14:40.935-05:00",
      "model": "N9K-C93180YC-EX",
      "monPolDn": "uni/fabric/monfab-default",
      "name": "rtp-f2-p1-leaf6",
      "nameAlias": "",
      "role": "leaf",
      "serial": "FDO20340NZ2",
      "status": "",
      "uid": "0",
      "vendor": "Cisco Systems, Inc",
      "version": ""
    }
  }
},

```

```

{
  "fabricNode": {
    "attributes": {
      "adSt": "on",
      "childAction": "",
      "delayedHeartbeat": "no",
      "dn": "topology/pod-1/node-215",
      "fabricSt": "active",
      "id": "215",
      "lcOwn": "local",
      "modTs": "2016-11-07T13:25:52.081-05:00",
      "model": "N9K-C93180YC-EX",
      "monPolDn": "uni/fabric/monfab-default",
      "name": "rtp-f2-p1-leaf5",
      "nameAlias": "",
      "role": "leaf",
      "serial": "FDO20340CC3",
      "status": "",
      "uid": "0",
      "vendor": "Cisco Systems, Inc",
      "version": ""
    }
  }
},
{
  "fabricNode": {
    "attributes": {
      "adSt": "on",
      "childAction": "",
      "delayedHeartbeat": "no",
      "dn": "topology/pod-1/node-211",
      "fabricSt": "active",
      "id": "211",
      "lcOwn": "local",
      "modTs": "2016-11-06T22:06:41.320-05:00",
      "model": "N9K-C9396PX",
      "monPolDn": "uni/fabric/monfab-default",
      "name": "rtp-f2-p1-leaf1",
      "nameAlias": "",
      "role": "leaf",
      "serial": "SAL1802KLJ7",
      "status": "",
      "uid": "0",
      "vendor": "Cisco Systems, Inc",
      "version": ""
    }
  }
},

```

```
{
  "fabricNode": {
    "attributes": {
      "adSt": "on",
      "childAction": "",
      "delayedHeartbeat": "no",
      "dn": "topology/pod-1/node-214",
      "fabricSt": "active",
      "id": "214",
      "lcOwn": "local",
      "modTs": "2016-10-28T22:42:59.935-05:00",
      "model": "N9K-C93128TX",
      "monPolDn": "uni/fabric/monfab-default",
      "name": "rtp-f2-p1-leaf4",
      "nameAlias": "",
      "role": "leaf",
      "serial": "SAL1816QWDQ",
      "status": "",
      "uid": "0",
      "vendor": "Cisco Systems, Inc",
      "version": ""
    }
  }
}
```

```
curl 'https://192.68.1.251/api/class/fabricNode.json?query-target-filter=eq(fabricNode.role,%22leaf%22)&_dc=1478830232767' -H 'Cookie: APIC-preState=; APIC-cookie=SDPhAuj7kE+bYiu0iLotjTZhtKPhIWgWBN6rj5exv9osqulkdYtBLj3JcVb+EOB7LwZxmP2rktUE0DnNsOYK5SRuizgJNHA2HB5WKryZR+fGGjptdrBYbY5QGJ4Y1NWjtZBakSt5n4x48QjqE1fptR1b5SPPeNu5v0ImAFQKVlyrfrfqF7MwxJsF5ZNw1uJr' -H 'Accept-Encoding: gzip, deflate, sdch, br' -H 'Accept-Language: en-US,en;q=0.8' -H 'User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/54.0.2840.98 Safari/537.36' -H 'Accept: text/html,application/xhtml+xml,application/xml,application/json' -H 'Referer: https://192.68.1.251/' -H 'APIC-challenge: 726e8c46b27538624b4ea444551f063a0e1164f38909200b2f2af09538eb879f' -H 'X-Requested-With: XMLHttpRequest' -H 'Connection: keep-alive' -H 'DevCookie: SDPhAuj7kE+bYiu0iLotjTZhtKPhIWgWBN6rj5exv9osqulkdYtBLj3JcVb+EOB7LwZxmP2rktUE0DnNsOYK5SRuizgJNHA2HB5WKryZR+fGGjptdrBYbY5QGJ4Y1NWjtZBakSt5n4x48QjqE1fptR1b5SPPeNu5v0ImAFQKVlyrfrfqF7MwxJsF5ZNw1uJr' --compressed --insecure
```

```
{
  "totalCount": "6",
  "imdata": [
    {
      "fabricNode": {
        "attributes": {
          "adSt": "on",
          "childAction": "",
          "delayedHeartbeat": "no",
          "dn": "topology/pod-1/node-212",
          "fabricSt": "active",
          "id": "212",
          "lcOwn": "local",
          "modTs": "2016-10-28T22:44:59.946-05:00",
          "model": "N9K-C9396PX",
          "monPolDn": "uni/fabric/monfab-default",
          "name": "rtp-f2-p1-leaf2",
          "nameAlias": "",
          "role": "leaf",
          "serial": "SAL17236LZ2",
          "status": "",
          "uid": "0",
          "vendor": "Cisco Systems, Inc",
          "version": ""
        }
      }
    }
  ]
}
```

```

{"adSt":"on","childAction":"","delayedHeartbeat":"no","dn":"topology/pod-1/
node-213","fabricSt":"active","id":"213","lcOwn":"local","modTs":"2016-11-06T22:08:41.343-05:0
0","model":"N9K-C93128TX","monPolDn":"uni/fabric/monfab-default","name":"rtp-f2-p1-
leaf3","nameAlias":"","role":"leaf","serial":"SAL1816QWKS","status":"","uid":"0","vendor":"Cisco
Systems, Inc","version":""}},{"fabricNode":{"attributes":
{"adSt":"on","childAction":"","delayedHeartbeat":"no","dn":"topology/pod-1/
node-215","fabricSt":"active","id":"215","lcOwn":"local","modTs":"2016-11-07T13:25:52.081-05:0
0","model":"N9K-C93180YC-EX","monPolDn":"uni/fabric/monfab-default","name":"rtp-f2-p1-
leaf5","nameAlias":"","role":"leaf","serial":"FDO20340CC3","status":"","uid":"0","vendor":"Cisco
Systems, Inc","version":""}},{"fabricNode":{"attributes":
{"adSt":"on","childAction":"","delayedHeartbeat":"no","dn":"topology/pod-1/
node-216","fabricSt":"active","id":"216","lcOwn":"local","modTs":"2016-11-09T08:14:40.935-05:0
0","model":"N9K-C93180YC-EX","monPolDn":"uni/fabric/monfab-default","name":"rtp-f2-p1-
leaf6","nameAlias":"","role":"leaf","serial":"FDO20340NZ2","status":"","uid":"0","vendor":"Cisco
Systems, Inc","version":""}},{"fabricNode":{"attributes":
{"adSt":"on","childAction":"","delayedHeartbeat":"no","dn":"topology/pod-1/
node-211","fabricSt":"active","id":"211","lcOwn":"local","modTs":"2016-11-06T22:06:41.320-05:00
","model":"N9K-C9396PX","monPolDn":"uni/fabric/monfab-default","name":"rtp-f2-p1-
leaf1","nameAlias":"","role":"leaf","serial":"SAL1802KLJ7","status":"","uid":"0","vendor":"Cisco
Systems, Inc","version":""}},{"fabricNode":{"attributes":
{"adSt":"on","childAction":"","delayedHeartbeat":"no","dn":"topology/pod-1/
node-214","fabricSt":"active","id":"214","lcOwn":"local","modTs":"2016-10-28T22:42:59.935-05:0
0","model":"N9K-C93128TX","monPolDn":"uni/fabric/monfab-default","name":"rtp-f2-p1-
leaf4","nameAlias":"","role":"leaf","serial":"SAL1816QWDQ","status":"","uid":"0","vendor":"Cisco
Systems, Inc","version":""}}}}
    
```