Prerequisite:

1) I used RHEL instead of mac.

**STEP 1**

Login:

Request method: PUT

Create file login.xml. See the attachment.

Put valid userid and password.

$ curl -k -i -X PUT -H "Content-Type: application/vnd.ibm.powervm.web+xml; type=LogonRequest" -H "Accept: application/vnd.ibm.powervm.web+xml; type=LogonResponse" -H "X-Audit-Memento: hmc\_test" -d @login.xml <https://9.3.147.20:12443/rest/api/web/Logon>

Response:

HTTP/2 200

date: Tue, 10 May 2022 05:26:37 GMT

server: Server Hardware Management Console

x-content-type-options: nosniff

strict-transport-security: max-age=31536000; includeSubDomains

referrer-policy: no-referrer

x-frame-options: SAMEORIGIN

x-transaction-id: XT10066672

content-type: application/vnd.ibm.powervm.web+xml; type=LogonResponse

set-cookie: JSESSIONID=684CEB2C0244BE4274025F0A237A295B; Path=/rest; Secure; HttpOnly

set-cookie: CCFWSESSION=DCB4CCFBE1C68327D4950873FAD985F3; Path=/; Secure; HttpOnly

content-security-policy: default-src https:; script-src https: 'unsafe-inline' 'unsafe-eval'; style-src https: 'unsafe-inline' 'unsafe-eval'; connect-src 'self'

x-xss-protection: 1; mode=block

vary: User-Agent

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<LogonResponse xmlns="http://www.ibm.com/xmlns/systems/power/firmware/web/mc/2012\_10/" xmlns:ns2="http://www.w3.org/XML/1998/namespace/k2" schemaVersion="V1\_0">

<Metadata>

<Atom/>

</Metadata>

<X-API-Session kb="ROR" kxe="false">Ivq2wxwdH42qfYLSurUMgkaZZuRrYW4Rr8dN4WWufIT1UIKqZqh1DaR\_DsVBnWCQGw6ffgTbEv17UwrUQHsr\_XNbBs3WMvSfRK58D4tiYFcPPk-ekP5QCfc7dnMSJ3sJT8fcPCLO\_QwxmjhGY-E7YjiW9q764nlg-wtFsVMrjRBBqLvvHfQyh8W1hxSFDSxDxCXFzcGjF-PRt4M6VHXW5\_8V6Kmb68gJwnSDbI367C4=</X-API-Session>

</LogonResponse>

Copy the X-API-Session id from above.

**STEP 2**

GET current PCM attributes:

curl -k -i -H "Content-Type: application/xml" -H "X-API-Session: Ivq2wxwdH42qfYLSurUMgkaZZuRrYW4Rr8dN4WWufIT1UIKqZqh1DaR\_DsVBnWCQGw6ffgTbEv17UwrUQHsr\_XNbBs3WMvSfRK58D4tiYFcPPk-ekP5QCfc7dnMSJ3sJT8fcPCLO\_QwxmjhGY-E7YjiW9q764nlg-wtFsVMrjRBBqLvvHfQyh8W1hxSFDSxDxCXFzcGjF-PRt4M6VHXW5\_8V6Kmb68gJwnSDbI367C4=" -X GET <https://9.3.147.20:12443/rest/api/pcm/preferences>

Response:

HTTP/2 200

date: Tue, 10 May 2022 05:26:37 GMT

Server: Server Hardware Management Console PCM

X-Content-Type-Options: nosniff

Strict-Transport-Security: max-age=31536000; includeSubDomains

X-Frame-Options: SAMEORIGIN

Referrer-Policy: no-referrer

ETag: -1049443091

Last-Modified: Fri, 23 Sep 2022 06:04:12 GMT

X-HMC-Schema-Version: V1\_11\_1

Content-Type: application/atom+xml

Vary: Accept-Encoding,User-Agent

Content-Security-Policy: default-src https:; script-src https: 'unsafe-inline' 'unsafe-eval'; style-src https: 'unsafe-inline' 'unsafe-eval'; connect-src 'self'

X-XSS-Protection: 1; mode=block

Transfer-Encoding: chunked

<feed xmlns="http://www.w3.org/2005/Atom" xmlns:ns2="http://a9.com/-/spec/opensearch/1.1/" xmlns:ns3="http://www.w3.org/1999/xhtml">

<id>c6fab59d-4ace-4614-825f-a22a6c0bc722</id>

<title type="text">Performance and Capacity Monitoring Preferences</title>

<subtitle type="text"/>

<link rel="self" href="https://9.212.142.9/rest/api/pcm/preferences"/>

<generator uri="IBM Power Systems Management Console" version="1"/>

<entry>

<id>533b1454-73f0-401c-a5dc-2aebcdef2f70</id>

<updated>2022-09-23T06:04:12.400Z</updated>

<title type="text">Performance and Capacity Monitoring Preferences</title>

<published>2022-09-23T06:04:12.400Z</published>

<author>

<name>IBM Power Systems Management Console</name>

</author>

<content type="application/xml">

<ManagementConsolePcmPreference:ManagementConsolePcmPreference xmlns:ManagementConsolePcmPreference="http://www.ibm.com/xmlns/systems/power/firmware/pcm/mc/2012\_10/" xmlns="http://www.ibm.com/xmlns/systems/power/firmware/pcm/mc/2012\_10/" xmlns:ns2="http://www.w3.org/XML/1998/namespace/k2" schemaVersion="V1\_0">

<Metadata>

<Atom>

**<AtomID>2e587e15-e815-39ef-9ec6-22e365dd043f </AtomID>**

<AtomCreated>1663913052394</AtomCreated>

</Atom>

</Metadata>

<MaximumManagedSystemsForLongTermMonitor kxe="false" kb="ROR">48</MaximumManagedSystemsForLongTermMonitor>

<MaximumManagedSystemsForComputeLTM kb="ROR" kxe="false">60</MaximumManagedSystemsForComputeLTM>

<MaximumManagedSystemsForAggregation kxe="false" kb="ROR">48</MaximumManagedSystemsForAggregation>

<MaximumManagedSystemsForShortTermMonitor kxe="false" kb="ROR">5</MaximumManagedSystemsForShortTermMonitor>

<MaximumManagedSystemsForEnergyMonitor kb="ROR" kxe="false">48</MaximumManagedSystemsForEnergyMonitor>

<AggregatedMetricsStorageDuration kb="UOD" kxe="false">3888000</AggregatedMetricsStorageDuration>

<ManagedSystemPcmPreference kb="UOD" kxe="false" schemaVersion="V1\_0">

<Metadata>

<Atom>

<AtomID>ce383435-2e1e-3fbb-beee-f8851bbe008f</AtomID>

<AtomCreated>1663913052303</AtomCreated>

</Atom>

</Metadata>

<SystemName kb="ROR" kxe="false">BETA</SystemName>

<MachineTypeModelSerialNumber kb="ROR" kxe="false" schemaVersion="V1\_0">

<Metadata>

<Atom/>

</Metadata>

<MachineType kxe="false" kb="ROR">9009</MachineType>

<Model kxe="false" kb="ROR">22A</Model>

<SerialNumber kb="ROR" kxe="false">78DC780</SerialNumber>

</MachineTypeModelSerialNumber>

<EnergyMonitoringCapable kb="ROO" kxe="false">true</EnergyMonitoringCapable>

<LongTermMonitorEnabled kb="UOD" kxe="false">true</LongTermMonitorEnabled>

<AggregationEnabled kxe="false" kb="UOD">true</AggregationEnabled>

<ShortTermMonitorEnabled kxe="false" kb="UOD">false</ShortTermMonitorEnabled>

<ComputeLTMEnabled ksv="V1\_1\_0" kb="UOD" kxe="false">false</ComputeLTMEnabled>

<EnergyMonitorEnabled kb="UOD" kxe="false">true</EnergyMonitorEnabled>

<AssociatedManagedSystem kb="ROO" kxe="false" href="https://9.3.147.20:12443/rest/api/uom/ManagedSystem/ce383435-2e1e-3fbb-beee-f8851bbe008f" rel="related"/>

</ManagedSystemPcmPreference>

<ManagedSystemPcmPreference kb="UOD" kxe="false" schemaVersion="V1\_0">

<Metadata>

<Atom>

<AtomID>d410c86b-812d-3d14-b872-ba933a9f337f</AtomID>

<AtomCreated>1663913052303</AtomCreated>

</Atom>

</Metadata>

<SystemName kb="ROR" kxe="false">EPSILON</SystemName>

<MachineTypeModelSerialNumber kb="ROR" kxe="false" schemaVersion="V1\_0">

<Metadata>

<Atom/>

</Metadata>

<MachineType kxe="false" kb="ROR">9009</MachineType>

<Model kxe="false" kb="ROR">22G</Model>

<SerialNumber kb="ROR" kxe="false">78F3B40</SerialNumber>

</MachineTypeModelSerialNumber>

<EnergyMonitoringCapable kb="ROO" kxe="false">true</EnergyMonitoringCapable>

<LongTermMonitorEnabled kb="UOD" kxe="false">true</LongTermMonitorEnabled>

<AggregationEnabled kxe="false" kb="UOD">true</AggregationEnabled>

<ShortTermMonitorEnabled kxe="false" kb="UOD">false</ShortTermMonitorEnabled>

<ComputeLTMEnabled ksv="V1\_1\_0" kb="UOD" kxe="false">false</ComputeLTMEnabled>

<EnergyMonitorEnabled kb="UOD" kxe="false">true</EnergyMonitorEnabled>

<AssociatedManagedSystem kb="ROO" kxe="false" href="https://9.3.147.20:12443/rest/api/uom/ManagedSystem/d410c86b-812d-3d14-b872-ba933a9f337f" rel="related"/>

</ManagedSystemPcmPreference>

</ManagementConsolePcmPreference:ManagementConsolePcmPreference>

</content>

</entry>

</feed>

Copy one of the managed System AtomID.

**STEP 3**

GET current PCM attributes:

curl -k -i -H "Content-Type: application/xml" -H "X-API-Session: Ivq2wxwdH42qfYLSurUMgkaZZuRrYW4Rr8dN4WWufIT1UIKqZqh1DaR\_DsVBnWCQGw6ffgTbEv17UwrUQHsr\_XNbBs3WMvSfRK58D4tiYFcPPk-ekP5QCfc7dnMSJ3sJT8fcPCLO\_QwxmjhGY-E7YjiW9q764nlg-wtFsVMrjRBBqLvvHfQyh8W1hxSFDSxDxCXFzcGjF-PRt4M6VHXW5\_8V6Kmb68gJwnSDbI367C4=" -X GET <https://9.3.147.20:12443/rest/api/pcm/ManagedSystem/2e587e15-e815-39ef-9ec6-22e365dd043f/AggregatedMetrics>

Response:

HTTP/2 200

<feed xmlns="http://www.w3.org/2005/Atom" xmlns:ns2="http://a9.com/-/spec/opensearch/1.1/" xmlns:ns3="http://www.w3.org/1999/xhtml">

<id>06751d27-5953-3f7f-bfaa-44382f516fea</id>

<updated>2022-09-23T06:05:00.000Z</updated>

<title type="text">AggregatedMetrics</title>

<subtitle type="text">ManagedSystem 06751d27-5953-3f7f-bfaa-44382f516fea</subtitle>

<link rel="self" href="https://9.212.142.9/rest/api/pcm/ManagedSystem/06751d27-5953-3f7f-bfaa-44382f516fea/AggregatedMetrics"/>

<generator uri="IBM Power Systems Management Console" version="1"/>

<entry>

<id>ddafdf9a-01f0-472d-b13d-b6e046940e4e</id>

<updated>2022-09-23T00:00:00.000Z</updated>

<title type="text">ManagedSystem\_06751d27-5953-3f7f-bfaa-44382f516fea\_20220810T000000+0000\_20220923T000000+0000\_86400.json</title>

<published>2022-08-10T00:00:00.000Z</published>

**<link type="application/json" href="https://9.3.147.20:12443/rest/api/pcm/AggregatedMetrics/ManagedSystem\_06751d27-5953-3f7f-bfaa-44382f516fea\_20220810T000000+0000\_20220923T000000+0000\_86400.json"/>**

<author>

<name>IBM Power Systems Management Console</name>

</author>

<category term="ManagedSystem" frequency="86400"/>

</entry>

.

.

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</feed>

Copy above link :

**https://9.3.147.20:12443/rest/api/pcm/AggregatedMetrics/ManagedSystem\_06751d27-5953-3f7f-bfaa-44382f516fea\_20220810T000000+0000\_20220923T000000+0000\_86400.json**

**STEP 3**

GET current PCM attributes:

curl -k -i -H "Content-Type: application/xml" -H "X-API-Session: Ivq2wxwdH42qfYLSurUMgkaZZuRrYW4Rr8dN4WWufIT1UIKqZqh1DaR\_DsVBnWCQGw6ffgTbEv17UwrUQHsr\_XNbBs3WMvSfRK58D4tiYFcPPk-ekP5QCfc7dnMSJ3sJT8fcPCLO\_QwxmjhGY-E7YjiW9q764nlg-wtFsVMrjRBBqLvvHfQyh8W1hxSFDSxDxCXFzcGjF-PRt4M6VHXW5\_8V6Kmb68gJwnSDbI367C4=" -X GET [https://9.3.147.20:12443/rest/api/pcm/AggregatedMetrics/ManagedSystem\_06751d27-5953-3f7f-bfaa-44382f516fea\_20220810T000000+0000\_20220923T000000+0000\_86400.json](https://9.3.147.20:12443/rest/api/pcm/AggregatedMetrics/ManagedSystem_06751d27-5953-3f7f-bfaa-44382f516fea_20220810T000000+0000_20220923T000000+0000_86400.json%20)

Response:

A big json with metrics data.

**Note: (Optional)**

If you want to run the curl command in a loop, use following command:

watch -n {{seconds}} {{your-command}}

eg.

watch -n 300 “curl -k -i -H ‘Content-Type: application/xml’ -H ‘X-API-Session: Ivq2wxwdH42qfYLSurUMgkaZZuRrYW4Rr8dN4WWufIT1UIKqZqh1DaR\_DsVBnWCQGw6ffgTbEv17UwrUQHsr\_XNbBs3WMvSfRK58D4tiYFcPPk-ekP5QCfc7dnMSJ3sJT8fcPCLO\_QwxmjhGY-E7YjiW9q764nlg-wtFsVMrjRBBqLvvHfQyh8W1hxSFDSxDxCXFzcGjF-PRt4M6VHXW5\_8V6Kmb68gJwnSDbI367C4=’ -X GET <https://9.3.147.20:12443/rest/api/pcm/ManagedSystem/2e587e15-e815-39ef-9ec6-22e365dd043f/preferences>”

or

while sleep {{seconds}}; do {{your-command}}; done

eg.

while sleep 300; do “curl -k -i -H ‘Content-Type: application/xml’ -H ‘X-API-Session: Ivq2wxwdH42qfYLSurUMgkaZZuRrYW4Rr8dN4WWufIT1UIKqZqh1DaR\_DsVBnWCQGw6ffgTbEv17UwrUQHsr\_XNbBs3WMvSfRK58D4tiYFcPPk-ekP5QCfc7dnMSJ3sJT8fcPCLO\_QwxmjhGY-E7YjiW9q764nlg-wtFsVMrjRBBqLvvHfQyh8W1hxSFDSxDxCXFzcGjF-PRt4M6VHXW5\_8V6Kmb68gJwnSDbI367C4=’ -X GET <https://9.3.147.20:12443/rest/api/pcm/ManagedSystem/2e587e15-e815-39ef-9ec6-22e365dd043f/preferences>”; done