

2017.09.25 WSMAN Code Investigation

Monday, September 25, 2017 9:36 AM

WSMAN - WS Management - Web Service Management

WSMAN Inventory Code in RackHD

Taskgraph: dell-wsman-get-inventory-graph.js
InjectableName: Graph.Dell.Wsman.GetInventory

Task: dell-wsman-get-inventory.js
InjectableName: Task.Dell.Wsman.GetInventory
ImplementsTask: Task.Base.Dell.Wsman.GetInventory

ImplementsTask: dell-wsman-inventory.js
InjectableName: Task.Base.Dell.Wsman.GetInventory
RunJob: Job.Dell.Wsman.Inventory

Job: dell-wsman-inventory.js
InjectableName: Job.Dell.Wsman.Inventory

Util: wsman-tool.js
InjectableName: JobUtils.WsmanTool

Inventories to be retrieved in existed wsman code:

Hardware, software, nics, manager

Process:

initJob -> get dell configuration (on-core services configuration.js) -> get from constants configurations (on-core common constants.js) -> get from configuration file (/opt/monorail/smiConfig.json)

_run -> initJob -> resolve promise ->

call collectInventory callback -> send wsman request -> call callback (inventoryCallBack) in base-job.js -> **handle response** -> call collect inventory callback

(cycle)

-> **call collectInventory callback** -> ...

(cycle)

-> end with all inventories collected

Handle response ->

Response is empty -> push inventory back into remained inventory list

(else)

-> find inventory catalog with node id and inventory name -> create new or update existed catalog in to DB

Configurations in smiconfig.json used for getting inventory catalog via wsman:

Gateway

href, host, pathname, port

wsmanCallbackUri

services.inventory.serverCallback/ chassisCallback

Q: When would the inventory task graph be ran?

Q: What is the workflow to run inventory task graph?

A: Not call automatically in any workflow or scripts. Provided as part of API for any clients.

Besides, task graphs with property of "serviceGraph: true", in most cases are invoked in some workflows or scripts, and run in background circularly.