BDNA

DOCUMENTATION

BDNA Extractor Instructions

Instructions to Configure Tanium 7 Extractor

April 27, 2017

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Contents

Overview

The document details the steps needed to configure extraction from Tanium 7 server with Tanium Connect 4.

Instructions to configure Tanium 7 Extractor:

This is a three-step process:

1. Create BDNA Saved Questions in Tanium Console
2. Create JSON File connectors for BDNA Saved Questions
3. Generate Normalize input zip file

Create BDNA Saved questions in Tanium Console

Create the following Saved Questions using the Tanium Console. This step is required to be performed once at the time of initial setup.

Saved Questions List

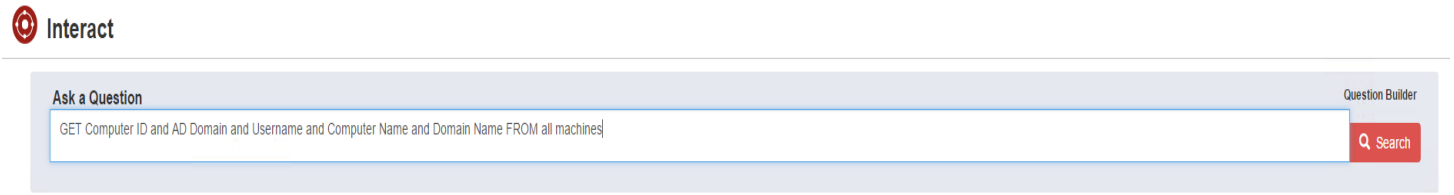
Saved Question Name	Saved Question Text	Sensors Used
BDNA_System	GET Computer ID and AD Domain and Username and Computer Name and Domain Name FROM all machines	Computer ID, AD Domain, Username, Computer Name, Domain Name
BDNA_AddRemove	Get Computer ID and Installed Applications from all machines	Computer ID, Installed Applications
BDNA_Bios	GET Computer ID and BIOS Vendor and Computer Serial Number FROM all machines	Computer ID, BIOS Vendor, Computer Serial Number
BDNA_CDROM	GET Computer ID and CD-ROM Drive FROM all machines	Computer ID, CD-ROM Drive
BDNA_ComputerSystem	GET Computer ID and Manufacturer and Model and Number of Processors and x64/x86? FROM all machines	Computer ID, Manufacturer, Model, Number of Processors, x64/x86
BDNA_DesktopMonitor	GET Computer ID and Monitor Details FROM all machines	Computer ID, Monitor Details
BDNA_Disk	GET Computer ID and Disk Drive Details and Disk Type of C: FROM all machines	Computer ID, Disk Drive Details, Disk Type of C:
BDNA_NetworkAdapter	GET Computer ID and Network Adapter Details FROM all machines	Computer ID, Network Adapter Details

Saved Question Name	Saved Question Text	Sensors Used
BDNA_NetworkAdapterConfigur	GET Computer ID and Network IP Gateway and DHCP Enabled? and DHCP Server and IP Address and Subnet Mask and MAC Address FROM all machines	Computer ID, Network IP Gateway, DHCP Enabled?, DHCP Server, IP Address, Subnet Mask, MAC Address
BDNA_OperatingSystem	GET Computer ID and Boot Device and Operating System Install Date and Operating System and Operating System Language and System Directory and Operating System Boot Directory and Operating System Build Number and Country Code and Service Pack FROM all machines	Computer ID, Boot Device, Operating System Install Date, Operating System, Operating System Language, System Directory, Operating System Boot Directory, Operating System Build Number, Country Code, Service Pack
BDNA_PCMemory	GET Computer ID and Total Memory FROM all machines	Computer ID, Total Memory
BDNA_Processor	GET Computer ID and CPU Family and CPU Manufacturer and CPU Speed Mhz and CPU FROM all machines	Computer ID, CPU Family, CPU Manufacturer, CPU Speed Mhz, CPU
BDNA_RecentlyUsedApps_Host	GET Computer ID and Last Application Launch Date FROM all machines	Computer ID, Last Application Launch Date
BDNA_VideoController	GET Computer ID and Video Graphics Card RAM and Video/Graphics Card and Video Driver Version FROM all machines	Computer ID, Video Graphics Card RAM, Video/Graphics Card, Video Driver Version
BDNA_Passthrough	GET Computer ID and IP Routes and BIOS Release Date and Monitor Resolution and Number of Processor Cores and RAM and RAM Max Capacity and Total Swap and Sound Card and Virtual Platform and Disk Type of C: and DNS Server and Primary WINS Server and Network Adapter Type and System UUID FROM all machines	Computer ID, IP Routes, BIOS Release Date, Monitor Resolution, Number of Processor Cores, RAM, RAM Max Capacity, Total Swap, Sound Card, Virtual Platform, Disk Type of C:, DNS Server, Primary WINS Server, Network Adapter Type, System UUID

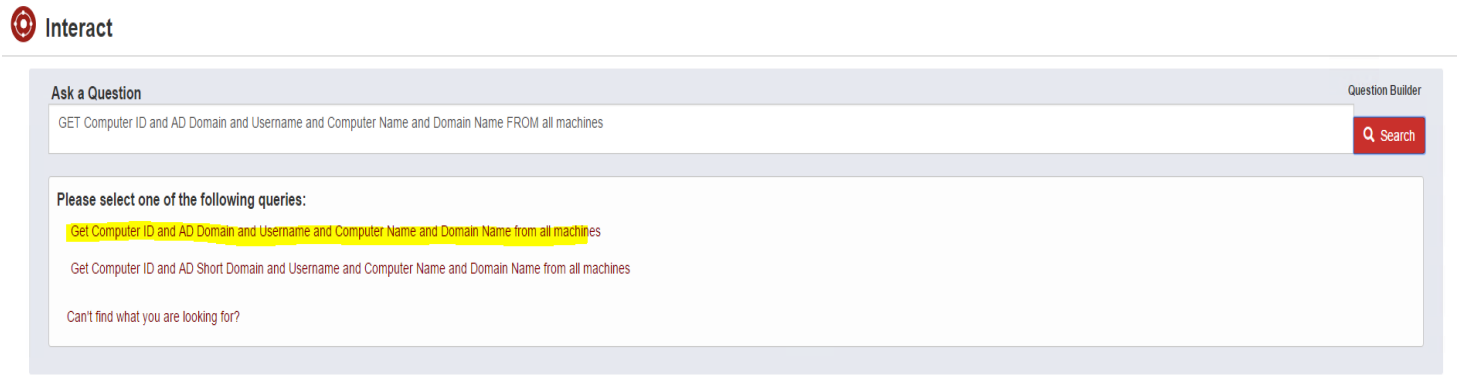
Saved Question Creation Procedure

Step 1) Navigate to Interact tab of Tanium Console

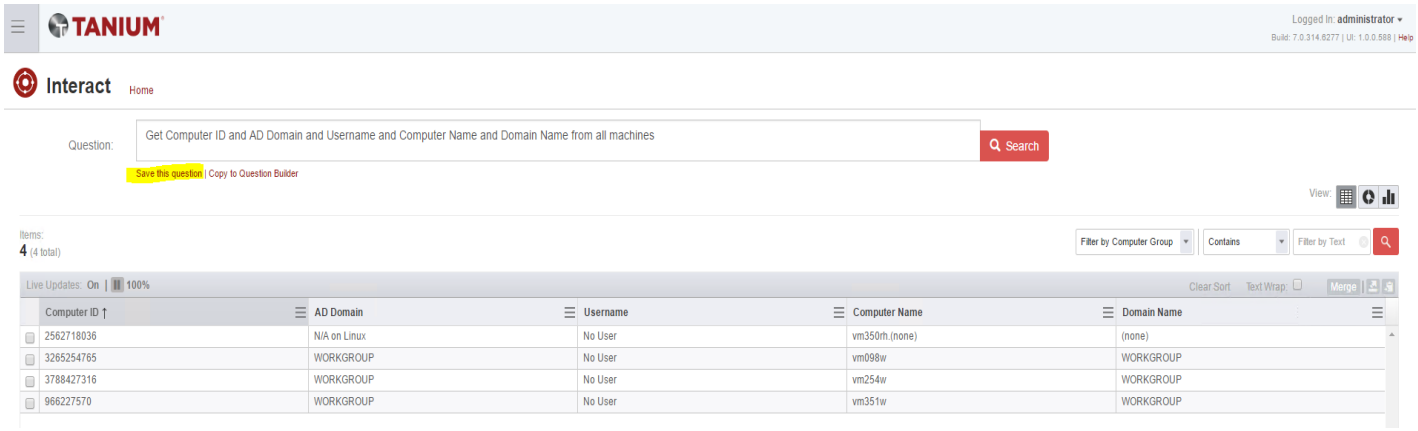
Step 2) Refer to above table and copy "**Saved Question Text**" and Paste it into "**Ask a Question**" window.



Step 3) Click on "**Search**" button and it will show some suggestions. Pick the first one or the one which matches exactly with the "**Saved Question Text**". Sequence and count of sensors should also remain same in "**Saved Question Text**" pasted in "**Ask a Question**" window and suggested query chosen.

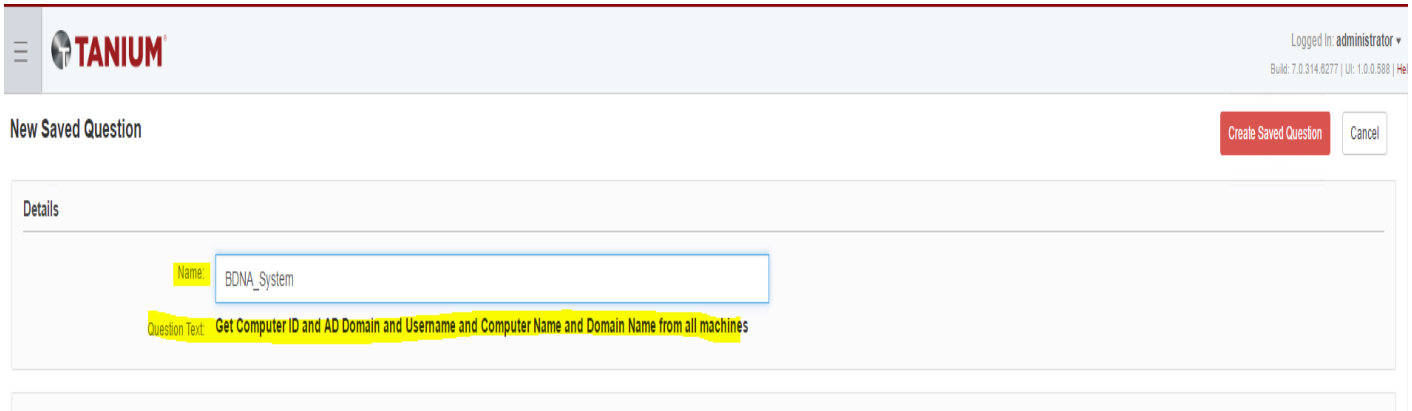


Step 4) Based on **Step 3**, click on the most appropriate suggestion. It will run the Saved Question and show the output. Click on "**Save this question**" hyperlink at the bottom of "**Question**" window

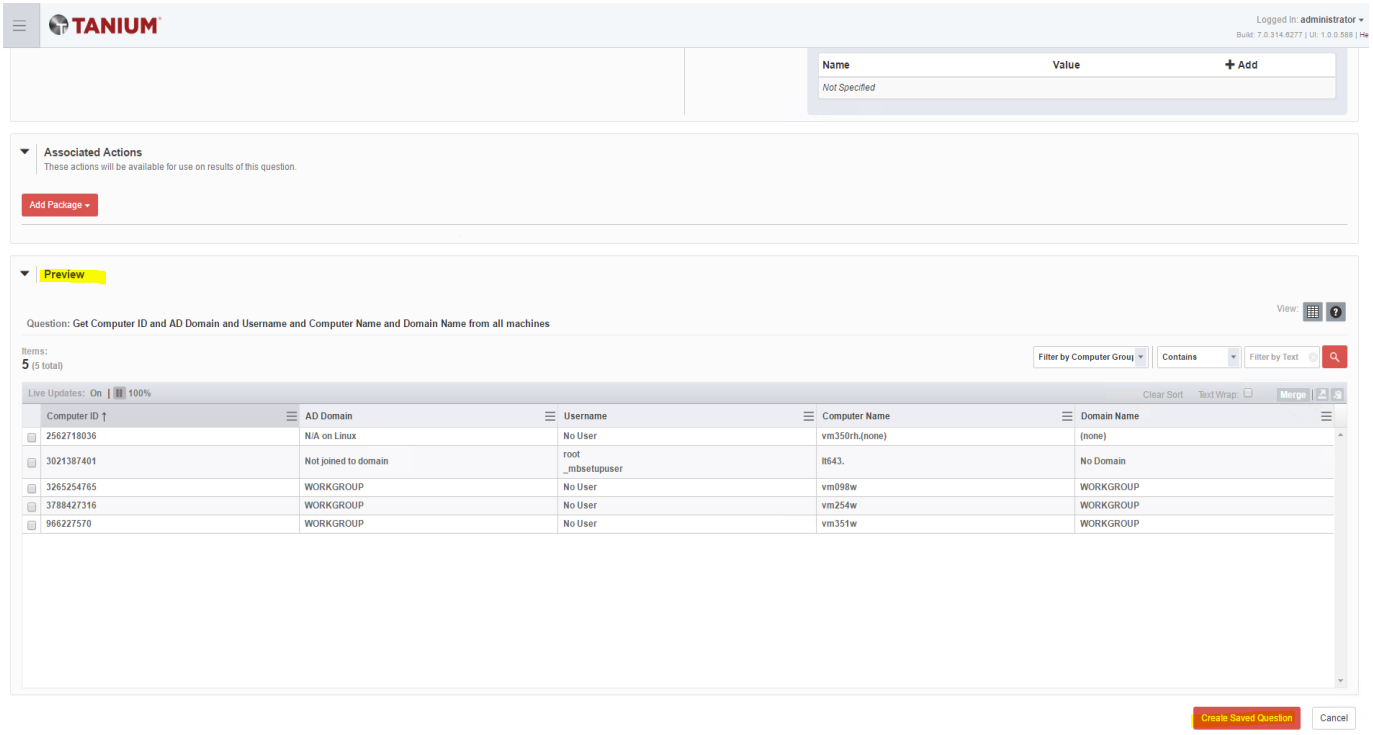


Step 5) Refer to the above table and copy "**Saved Question Name**" for corresponding "**Saved Question Text**". Paste it in "**Name**" window.

Step 6) Verify that Question Text matches with the "**Saved Question Text**" from above table. Sequence and count of sensors should remain same in "**Saved Question Text**" in table above and "**Question Text"** below "Name" window

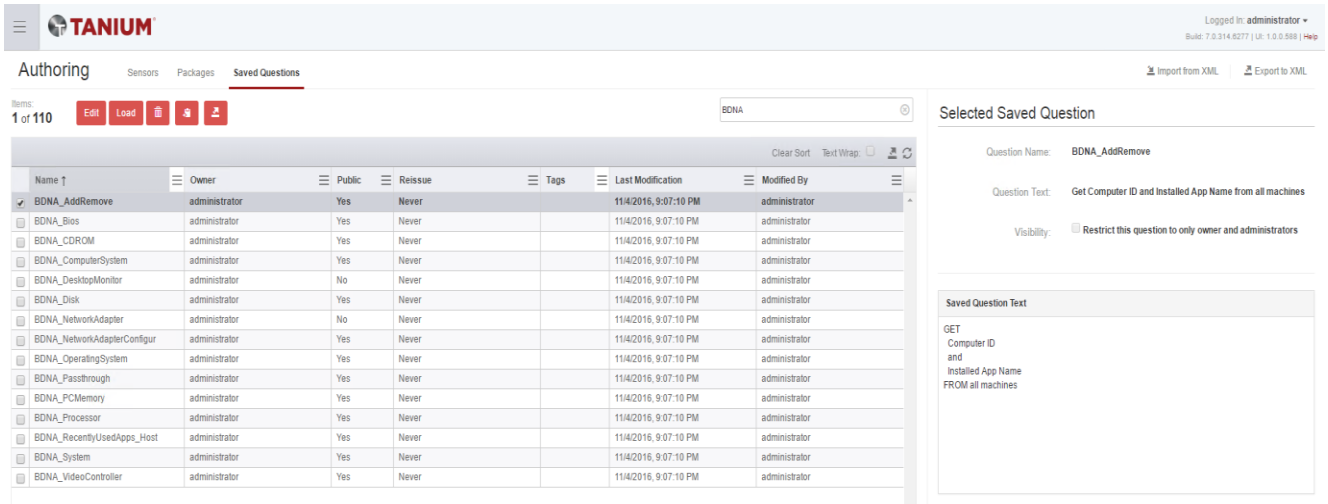


Step 7) Click on "**Preview**" to see some data and then click on "**Create Saved Question**"



Step 8) Repeat **Steps 1-7** for all "**Saved Questions**" mentioned in table above.

Step 9) Once all "**Saved Questions**" have been created, click on "**Saved Questions**" under Authoring tab (from left side panel). Search for "**BDNA**" under Saved Questions. This should display all Saved Questions created. Total count of BDNA Saved Questions should be 15.



Create JSON File connectors for BDNA Saved Questions

Create the following file connectors using the Connect plugin from the Tanium Console. This step is required to be performed once at the time of initial setup.

Below tables cover settings for Tanium Connect 4.x.

Connector Settings

General Information:
Name: Add Remove JSON File Connector **Description**: JSON File Connector for BDNA_AddRemove
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_AddRemove **Destination:** File **Destination Name**: AddRemove.json **File Name**: AddRemove.json
Format:
JSON

General Information:
Name: System JSON File Connector **Description**: JSON File Connector for BDNA_System
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_System **Destination:** File **Destination Name**: System.json **File Name**: System.json
Format:
JSON

General Information:
Name: Computer System JSON File Connector **Description**: JSON File Connector for BDNA_Computer System
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_ComputerSystem **Destination:** File **Destination Name**: Computer System.json **File Name**: ComputerSystem.json
Format:
JSON

General Information:
Name: LogicalDisk JSON File Connector **Description**: JSON File Connector for BDNA_Disk
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_Disk **Destination:** File **Destination Name**: LogicalDisk.json **File Name**: LogicalDisk.json
Format:
JSON

General Information:
Name: PCMemory JSON File Connector **Description**: JSON File Connector for BDNA_PCMemory
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_PCMemory **Destination:** File **Destination Name**: PCMemory.json **File Name**: PCMemory.json
Format:
JSON

General Information:
Name: Network Adapter JSON File Connector **Description**: JSON File Connector for BDNA_Network Adapter
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_NetworkAdapter **Destination:** File **Destination Name**: NetworkAdapter.json **File Name**: NetworkAdapter.json
Format:
JSON

General Information:
Name: Network Adapter Configure JSON File Connector **Description**: JSON File Connector for BDNA_Network AdapterConfigure
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_NetworkAdapterConfigure **Destination:** File **Destination Name**: NetworkAdapterConfigure.json **File Name**: NetworkAdapterConfigure.json
Format:
JSON

General Information:
Name: Operating System JSON File Connector **Description**: JSON File Connector for BDNA_Operating System
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_OperatingSystem **Destination:** File **Destination Name**: OperatingSystem.json **File Name**: OperatingSystem.json
Format:
JSON

General Information:
Name: Processor JSON File Connector **Description**: JSON File Connector for BDNA_Processor
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_Processor **Destination:** File **Destination Name**: Processor.json **File Name**: Processor.json
Format:
JSON

General Information:
Name: BIOS JSON File Connector **Description**: JSON File Connector for BDNA_Bios
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_Bios **Destination:** File **Destination Name**: BIOS.json **File Name**: BIOS.json
Format:
JSON

General Information:
Name: CD ROM JSON File Connector **Description**: JSON File Connector for BDNA_CDROM
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_CDROM **Destination:** File **Destination Name**: CDROM.json **File Name**: CDROM.json
Format:
JSON

General Information:
Name: Desktop Monitor JSON File Connector **Description**: JSON File Connector for BDNA_Desktop Monitor
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_DesktopMonitor **Destination:** File **Destination Name**: DesktopMonitor.json **File Name**: DesktopMonitor.json
Format:
JSON

General Information:
Name: Recently Used Apps Host JSON File Connector **Description**: JSON File Connector for Recently Used Apps Host
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_ RecentlyUsedApps_Host **Destination:** File **Destination Name**: RecentlyUsedAppsHost.json **File Name**: RecentlyUsedAppsHost.json
Format:
JSON

General Information:
Name: Video Controller JSON File Connector **Description**: JSON File Connector For Video Controller
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_VideoController **Destination:** File **Destination Name**: VideoController.json **File Name**: VideoController.json
Format:
JSON

General Information:
Name: Pass Through JSON File Connector **Description**: JSON File Connector For Pass Through
Source and Destination:
Source: Saved Question **Saved Question Name**: BDNA_PassThrough **Destination:** File **Destination Name**: PassThrough.json **File Name**: PassThrough.json
Format:
JSON

File Connectors Creation Procedure

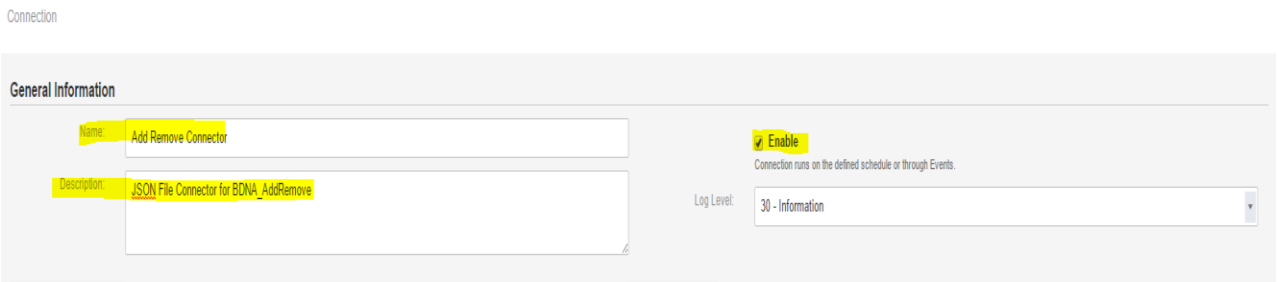
Instructions to create Connectors for **Tanium Connect 4.x:**

Setting 1)

These settings need to be repeated for each Saved Question. Please refer to appropriate table above to get settings for corresponding saved question. For example, screenshots below show settings done for BDNA_AddRemove saved question.

Connection:
General Information:

- Select "**Enable**" checkbox
- Enter Connector Name and Description as shown in snapshot below

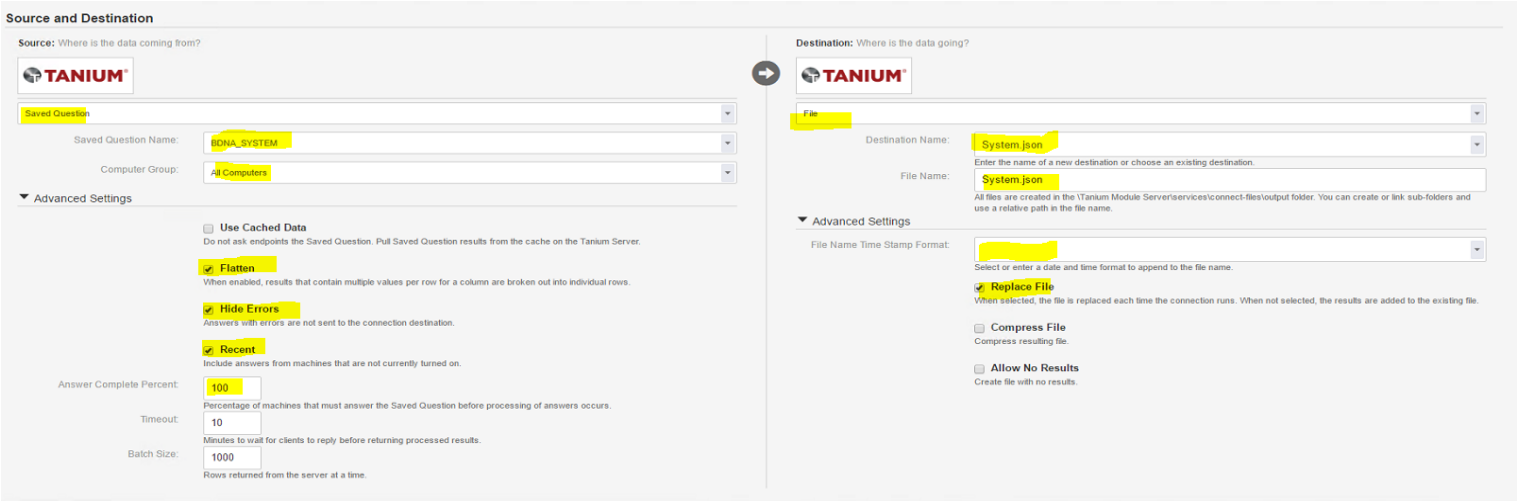


Setting 2)

Source and Destination:

- Select Source as "**Saved Question**". Advanced Settings will show up.
- Select Saved Question Name from drop down menu. Connector Name and the corresponding Saved Question and File Name are shown in table above. Please refer to that table while creating connections.
- Select Computer Group as "**All Computers**"
- Under Advanced Settings, select "**Flatten**", "**Hide Errors**" and "**Recent**" checkbox.
- Select Answer Complete Percent as "**100**"
- All other values should be same as default ones.

- Select Destination as "**File**"
- Enter Destination Name by referring to table above. It is not a drop-down menu. User has to type a file name in that box.
- **Enter File Name where saved question data needs to be dumped.** File Names should be same as shown in table above. Please refer to that table while creating connections. File Names should not have any spaces.
- All files are created in the \Tanium Module Server\services\connect-files\output folder.
- Under Advanced Settings, keep Filename Timestamp Format as empty i.e. " "
- Select "**Replace File**" checkbox.



Format:

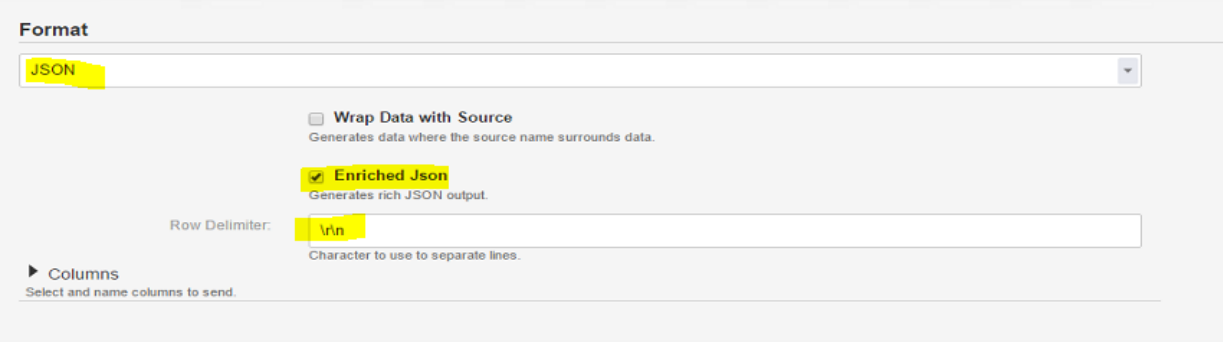
- Select Format as "**JSON**"
- Select **Enriched JSON** checkbox
- Select row delimiter as **"\r\n"**
- Uncheck **"Wrap Data with Source"** option

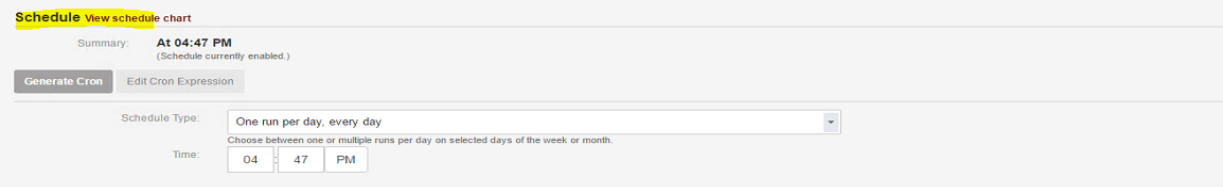
Schedule:

- Select Schedule of running Saved Question by consulting Tanium TAM. This value needs to be set in such a way that maximum assets get discovered during the run. Tanium Trends could be referred before setting this value.

Finally, click on "**Create Connector**" to create connection for a Saved Question.

To test JSON file Connector, open that connector and click on "**Run Now**"





Generate the Normalize input zip file

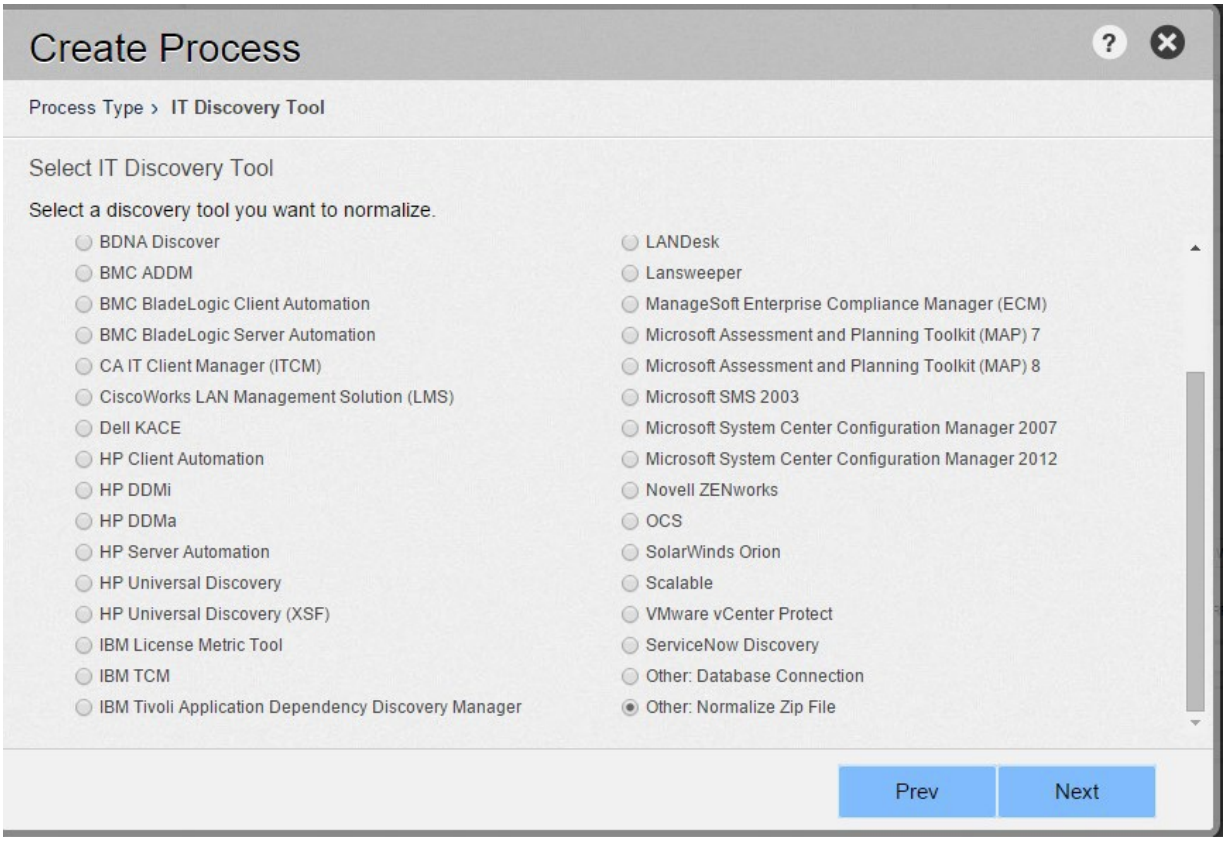
After the connectors are created, JSON files for all BDNA Saved Questions will be saved at the location chosen in above step. You can now use the BDNA Standalone Extractor to extract Tanium data from these JSON files.

Using the BDNA Standalone Extractor

From a workstation with file access to the JSON file location, run the BDNA Normalize Standalone Extractor.

NOTE: Standalone Extractor Version 5.3 or higher is required.

1. Click the Browse button in the Configuration File section to and select the json.Tanium.config file.
2. Click the Browse button in the Input JSON File section and select the folder where Tanium JSON files are located.
3. Click on Test button to test connectivity.
4. Click Browse button in the Output Path section to select the path to save the Normalize input zip file.
5. Click on Execute button to start the extraction.
6. After extraction completes, the saved Normalize input zip file can be loaded into BDNA Normalize by creating a new Normalize Process from the BDNA Data Platform Admin Console


Create Process
Process Type › IT Discovery Tool
Select IT Discovery Tool
Select a discovery tool you want to normalize.
BDNA Discover
BMC ADDM
BMC BladeLogic Client Automation
BMC BladeLogic Server Automation
CA IT Client Manager (ITCM)
CiscoWorks LAN Management Solution (LMS)
Dell KACE
HP Client Automation
HP DDMi
HP DDMa
HP Server Automation
HP Universal Discovery
HP Universal Discovery (XSF)
IBM License Metric Tool
IBM TCM
IBM Tivoli Application Dependency Discovery Manager
LANDesk
Lansweeper
ManageSoft Enterprise Compliance Manager (ECM)
Microsoft Assessment and Planning Toolkit (MAP) 7
Microsoft Assessment and Planning Toolkit (MAP) 8
Microsoft SMS 2003
Microsoft System Center Configuration Manager 2007
Microsoft System Center Configuration Manager 2012
Novell ZENworks
OCS
SolarWinds Orion
Scalable
VMware vCenter Protect
ServiceNow Discovery
Other: Database Connection
Other: Normalize Zip File
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