



IBM Software Group

IBM Tivoli® Training IBM Tivoli Monitoring 6.1

Configuring Historical Data Collection



Estimating

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Objectives

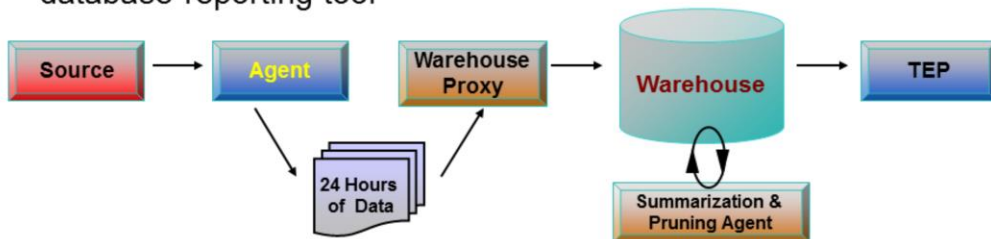
Upon completion of this module, you should be able to:

- Describe the IBM Tivoli Monitoring 6.1 historical data collection process.
- Configure historical data collection and the summarization and pruning intervals.



Historical Data Collection Process

- Enable data collection
- Warehouse Proxy agent communicates directly with database where data is stored
- Short-term historical data (up to 24 hours)
 - Saved at the agent (preferred) or at the management server to which the agent connects
 - Some items only collected at the agent or TEMS
- Data warehousing to occur daily or hourly
- After warehousing, display using Tivoli Enterprise Portal or other database reporting tool



Historical Collection Configuration

The screenshot shows the 'History Collection Configuration' window. At the top, there is a list of system objects including Print_Queue, Process_IO, SMTP_Server, TCP_Statistics, UDP_Statistics, Web_Service, NT_Logical_Disk, NT_Memory, NT_Objects, NT_Physical_Disk, NT_Process, NT_Server, NT_Server_Work_Queue, NT_System, and NT_Thread. Below this is the 'Configuration Controls' section, which is divided into three main areas: Collection, Summarization, and Pruning. The 'Collection' section includes options for Collection Interval (5, 15, 30 minutes, 1 hour) and Warehouse Interval (1 hour, 1 day, Off). The 'Summarization' section has checkboxes for Yearly, Quarterly, Monthly, Weekly, Daily, and Hourly. The 'Pruning' section has checkboxes for Yearly, Quarterly, Monthly, Weekly, Daily, Hourly, and Detailed data, each with a 'keep' value and a unit (Years, Months, Days). A callout box on the right lists the configuration steps: 1. Collection Intervals, 2. Summarization Intervals, and 3. Pruning Intervals. A callout box labeled 'Collection' points to the Collection Interval options. A callout box labeled 'Summarization' points to the Summarization checkboxes. A callout box labeled '3. Pruning' points to the Pruning options.

History Configuration... (Ctrl+H)

Configuration:

1. Collection Intervals
2. Summarization Intervals
3. Pruning Intervals

Collection

Summarization

3. Pruning

Configure Collection Intervals

1 Select a product

2 Select Attribute Groups

Group	Collection	Collection Interval	Collection Location	Warehouse Interval	Summarize Yearly	Prune Yearly	Summarize Quarterly
Linux_CPU							
Linux_CPU_Averages							
Linux_CPU_Config							
Linux_Disk							
Linux_Disk_IO							
Linux_Disk_Usage_Trends							
Linux_IO_Edit							
Linux_User_Login							
Linux_Network							
Linux_NFS_Statistics							
Linux_OS_Config							
Linux_Process							
Linux_Process_User_Info							
Linux_RPC_Statistics							
Linux_Sockets_Detail							

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4 Configuration Controls

Collection Interval: 15 minutes, 5 minutes, 30 minutes, 1 hour

Collection Location: TEMA, TEMS

Warehouse Interval: 1 hour, 1 day, Off

5 Configure Groups

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Group	Collection	Collection Interval	Collection Location	Warehouse Interval	On
Linux_CPU					
Linux_CPU_Averages					
Linux_CPU_Config					
Linux_Disk		15 minutes	TEMA	1 day	On
Linux_Disk_IO					

Configure Summarization Intervals

Configure Collection Interval

History Collection Configuration

Select a product: Linux

Group	Collection	Collection Interval	Collection Location	Warehouse Interval	Summarize Yearly	Prune Yearly	Summarize Quarterly	Prune Quarterly
Linux_CPU								
Linux_CPU_Averages								
Linux_CPU_Config								
Linux_Disk								
Linux_Disk_IO								
Linux_Disk_Usage_Trends								
Linux_IO_Ed								
Linux_Imp_Smth								
Linux_JFS_Statistics								
Linux_OS_Config								
Linux_Process								
Linux_Process_User_Info								
Linux_RFC_Statistics								
Linux_Sockets_Detail								

Configuration Controls

Collection Interval: 5 minutes 15 minutes 30 minutes 1 hour

Collection Location: TEMA TEMG

Warehouse Interval: 1 hour 1 day OFF

Summarization: Yearly Quarterly Monthly Weekly Daily Hourly Detailed data

Pruning: Yearly Quarterly Monthly Weekly Daily Hourly Detailed data

Configure Groups | Unconfigure Groups | Show Default Groups | Start Collection | Stop Collection | Refresh Status

Group	Collection	Collection Interval	Collection Location	Warehouse Interval	Summarize Yearly	Prune Yearly	Summarize Quarterly	Prune Quarterly	Summarize Monthly	Prune Monthly	Summarize Weekly	Prune Weekly	Summarize Daily	Prune Daily	Summarize Hourly	Prune Hourly	Prune Detailed
Linux_CPU																	
Linux_CPU_Averages																	
Linux_Dse		15 minutes	TEMA	1 day									On				On

Configure Pruning Intervals



Configure Collection & Summarization Interval



History Collection Configuration

Select a product
Linux

Select Attribute Groups

Group	Collection	Collection Interval	Collection Location	Warehouse Interval	Summarize Yearly	Prune Yearly	Summarize Quarterly
Linux_CPU							
Linux_CPU_Averages							
Linux_CPU_Config							
Linux_Disk		15 minutes	TEMA	1 day	On	On	
Linux_Disk_IO							
Linux_Disk_Usage_Trends							
Linux_IO_Ext							
Linux_User_Login							
Linux_Network							
Linux_NFS_Statistics							
Linux_OS_Config							
Linux_Process							
Linux_Process_User_Info							
Linux_RPC_Statistics							
Linux_Sockets_Detail							

Configuration Controls

Collection Interval
 5 minutes
 15 minutes
 30 minutes
 1 hour

Collection Location
 TEMA
 TMS

Warehouse Interval
 1 hour
 1 day

Summarization
 Yearly
 Quarterly
 Monthly
 Weekly
 Daily
 Hourly

Pruning
 Yearly keep [] []
 Quarterly keep [] []
 Monthly keep [] []
 Weekly keep [] []
 Daily keep 3 [] Months
 Hourly keep 3 [] Months
 Detailed data keep 3 [] Months

Configure Groups

Group	Collection	Collection Interval	Collection Location	Warehouse Interval	Prune Yearly	Summarize Quarterly	Prune Quarterly
Linux_CPU							
Linux_CPU_Averages							
Linux_Disk		15 minutes	TEMA	1 day	On	On	On
Linux_Disk_IO							

Start Historical Data Collection



Configure Collection, Summarization, and Pruning Intervals

Select a product
Linux

Select Attribute Groups

Group	Collection	Collection Interval	Collection Location
Linux_CPU			
Linux_CPU_Averages			
Linux_CPU_Config			
Linux_Disk	Started	15 minutes	TEMA

History Collection Configuration

Select a product
Linux

Select Attribute Groups

Group	Collection	Collection Interval	Collection Location	Warehouse Interval	Summarize Yearly	Prune Yearly	Summarize Quarterly
Linux_CPU							
Linux_CPU_Averages							
Linux_CPU_Config							
Linux_Disk	Started	15 minutes	TEMA	1 day	On		On
Linux_Disk_IO							
Linux_Disk_Usage_Trends							
Linux_IO_Ext							
Linux_User_Login							
Linux_Network							
Linux_IPS_Statistics							
Linux_OS_Config							
Linux_Process							
Linux_Process_User_Info							
Linux_IPC_Statistics							
Linux_Sockets_Detail							

Configuration Controls

Collection Interval
 5 minutes
 15 minutes
 30 minutes
 1 hour

Collection Location
 TEMA
 TEMS

Warehouse Interval
 1 hour
 1 day
 off

Summarization
 Yearly
 Quarterly
 Monthly
 Weekly
 Daily
 Hourly

Pruning
 Yearly
 Quarterly
 Monthly
 Weekly
 Daily
 Hourly
 Detailed data

Start Collection

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