

ITM 6.2/6.1 Attribute Difference Report

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Product	UX
Agent	Unix OS

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[=] TABLE: System

System attributes refer to system characteristics such as the amount of available virtual memory, idle CPU percentage, the number of non-block device reads, and load averages.

[+] IPv6_Address	<i>The IPv6 address corresponding to the system hostname.</i>
[+] Zone_ID	<i>The ID of the Solaris zone.</i>
[+] Zone_Name	<i>The name of the Solaris zone.</i>

[=] TABLE: Disk

The Disk attributes refer to disk characteristics such as inode size, inodes used, mount point, and space available.

[+] Inodes_Available_Percent	<i>The percentage of inode space currently not in use.</i>
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[=] TABLE: Disk_Performance

The Disk Performance attributes refer to disk operations such as data transfer rates, average waiting times, and percentage busy.

[+] Percent_Disk_Read_Time	<i>The percentage of elapsed time that the disk drive was busy servicing read requests over the previous 30 second interval.</i>
[+] Percent_Disk_Write_Time	<i>The percentage of elapsed time that the disk drive was busy servicing write requests over the previous 30 second interval.</i>
[+] Disk_Reads_Sec	<i>The number of read operations on the disk per second averaged over the previous 30 second interval.</i>
[+] Disk_Writes_Sec	<i>The number of write operations on the disk per second averaged over the previous 30 second interval.</i>
[+] Disk_Read_Bytes_Sec	<i>The number of bytes per second transferred from the disk during read operations over the previous 30 second interval.</i>
[+] Disk_Write_Bytes_Sec	<i>The number of bytes per second transferred to the disk during write operations over the previous 30 second interval.</i>
[+] Avg_Disk_Bytes_Xfer	<i>The number of bytes per disk transfer averaged over the previous 30 second interval.</i>

[=] TABLE: Network

The Network attributes refer to network characteristics such as received count, sent count, network interface name, and interface status.

[+] Received_MB	<i>The number of megabytes received per second averaged over the previous 30-second interval.</i>
[+] Transmitted_MB	<i>The number of megabytes sent per second averaged over the previous 30-second interval.</i>
[+] Received_MB_Total	<i>The number of megabytes received on the interface (total).</i>
[+] Transmitted_MB_Total	<i>The number of megabytes transmitted on the interface (total).</i>
[+] IPv4_DNS_Name	<i>The Domain Name Server (DNS) entry associated with the first IP address of the network interface.</i>
[+] Type	<i>The type of network interface card.</i>
[+] Input_Packet_Errors_Percent	<i>Portion of packets received over the previous 30-second interval with errors.</i>
[+] Output_Packet_Errors_Percent	<i>Portion of packets sent over the previous 30-second interval with errors.</i>
[+] Packet_Collisions_Percent	<i>Portion of packets sent over the previous 30-second interval with collisions.</i>

[=] TABLE: Process

The Process Attributes Group refer to process operations such as command executed, CPU utilization, real memory usage, and execution state.

[+] Group_Name	<i>The group name of the process owner.</i>
[+] Effective_User_Name	<i>The effective user name of the process.</i>
[+] Effective_Group_Name	<i>The effective group name of the process.</i>
[+] Base_Command	<i>The command that initiated a process.</i>
[+] Type	<i>The type of UNIX operating system residing on a monitored host.</i>
[+] Zone_ID	<i>The ID of the Solaris zone.</i>
[+] Zone_Name	<i>The name of the Solaris zone.</i>

[=] TABLE: File_Information

The File Information attributes refer to file and directory characteristics such as name, size, owner, access rights, and links.

[+] Mode	<i>The string representation of the file mode.</i>
[+] Last_Attr_Chg_Time	<i>The time when the file attributes were last modified.</i>
[+] Checksum	<i>The value of the checksum.</i>
[+] Checksum_Algorithm	<i>Only used in situations in conjunction with the Checksum.</i>
[+] File_Content_Changed	<i>A numeric indicator that the content of a file has changed.</i>

[=] TABLE: N_F_S_and_R_P_C_Statistics

The NFS / RPC Statistics group attributes refer to Network File System and Remote Procedure Call call rates and errors.

[+] NFS_Version	<i>The version of NFS from which metrics were obtained, or Aggregate if metrics from more than one version are included.</i>
[+] RPC_Server_Calls	<i>The number of RPC server calls per second averaged over the previous 30-second interval.</i>
[+] RPC_Server_Dup_Checks	<i>The number of RPC server calls per second serviced from the duplicate request cache averaged over the previous 30-second interval.</i>
[+] RPC_Server_Dup_Reqs	<i>The number of duplicate RPC server calls per second averaged over the previous 30-second interval.</i>
[+] RPC_Client_Calls	<i>The number of RPC client calls per second averaged over the previous 30-second interval.</i>
[+] RPC_Server_Dup_Reqs_Percent	<i>The portion of RPC server calls over the previous 30-second interval that were duplicate requests.</i>
[+] RPC_Server_Calls_Rejected_Percent	<i>The portion of RPC server calls over the previous 30-second interval that were rejected by the server.</i>
[+] RPC_Client_Calls_Retransmitted_Percent	<i>The portion of RPC packets over the previous 30-second interval retransmitted to an RPC server.</i>
[+] RPC_Client_Calls_Retransmitted_Limit_Percent	<i>The portion of timed-out RPC client calls over the previous 30-second interval that were retransmitted.</i>
[+] RPC_Client_Calls_Timed_Out_Percent	<i>The portion of RPC client calls over the previous 30-second interval that timed out.</i>
[+] RPC_Client_Bad_Xid_Replies_Percent	<i>The portion of RPC server calls over the previous 30-second interval that did not match the call.</i>
[+] RPC_Client_Bad_Xid_Replies_Limit_Percent	<i>The portion of rejected RPC server calls over the previous 30-second interval that did not match the call.</i>
[+] RPC_Client_Calls_Rejected_by_Server_Percent	<i>The portion of calls made by a client to a server over the previous 30-second interval that the server rejected.</i>
[+] NFS_Server_Get_Attr_Percent	<i>The portion of calls made over the previous 30-second interval to determine what type of file is being called.</i>
[+] NFS_Server_Write_Percent	<i>The portion of client calls made to a server over the previous 30-second interval that were writes.</i>
[+] NFS_Server_Read_Percent	<i>The portion of client calls made to a server over the previous 30-second interval that were reads.</i>
[+] NFS_Server_Read_Link_Percent	<i>The portion of lookup requests made by an NFS server over the previous 30-second interval that read a linked file.</i>

[+] TABLE: Unix_Group

The UNIX Group attributes refer to group characteristics.

[+] Group_Name	<i>The name of the group.</i>
[+] Group_ID	<i>The ID of this group.</i>
[+] Group_Duplicated	<i>True if the group name is listed more than once in /etc/group.</i>

[+] TABLE: Unix_Memory

The Memory attributes refer to memory characteristics.

[+] Total_Virtual_Storage_MB	<i>The total number of megabytes of storage available for hosting virtual memory.</i>
[+] Used_Virtual_Storage_MB	<i>The number of megabytes of virtual memory currently in use by the system.</i>
[+] Avail_Virtual_Storage_MB	<i>The total number of megabytes available for paging that is not currently being used.</i>
[+] Virtual_Storage_Pct_Used	<i>Percent of virtual memory used.</i>
[+] Virtual_Storage_Pct_Avail	<i>Percent of virtual storage available.</i>
[+] Total_Swap_Space_MB	<i>The total number of megabytes of secondary storage dedicated to hosting virtual memory.</i>
[+] Used_Swap_Space_MB	<i>The number of megabytes of secondary storage currently hosting virtual memory.</i>
[+] Avail_Swap_Space_MB	<i>The number of megabytes of secondary storage available to host virtual memory.</i>
[+] Used_Swap_Space_Pct	<i>The percent of swap space used.</i>
[+] Avail_Swap_Space_Pct	<i>Percent of swap space available.</i>

[+] Total_Real_Mem_MB	<i>The total number of megabytes of physical memory on a monitored system.</i>
[+] Used_Real_Mem_MB	<i>The amount of physical memory, in megabytes, currently used on the system.</i>
[+] Avail_Real_Mem_MB	<i>The amount of physical memory, in megabytes, currently available on the system.</i>
[+] Used_Real_Mem_Pct	<i>Percent of real memory used.</i>
[+] Avail_Real_Mem_Pct	<i>Percent of real memory available.</i>
[+] Page_Faults	<i>Page faults per second averaged over the previous 30-second interval.</i>
[+] Page_Reclaims	<i>The number of times per second that the system removed a page from the queue and used that page for another process, averaged over the previous 30-second interval.</i>
[+] Page_Ins	<i>The number of pages per second that were paged-in from disk to system memory averaged over the previous 30-second interval.</i>
[+] Page_Outs	<i>The number of pages per second paged-out from system memory to disk averaged over the previous 30-second interval.</i>
[+] Page_In_Reqs	<i>The number of requests per second of page-in requests averaged over the previous 30-second interval.</i>
[+] Page_Out_Reqs	<i>The number of requests per second of page-out requests averaged over the previous 30-second interval.</i>
[+] Page_In_KB_S	<i>The number of kilobytes that the virtual memory manager pages in per second averaged over the previous 30-second interval.</i>
[+] Page_Out_KB_S	<i>The number of kilobytes that the virtual memory manager pages out per second averaged over the previous 30-second interval.</i>
[+] Page_In_1Min	<i>The average rate of page ins over the last minute.</i>
[+] Page_In_5Min	<i>The average rate of page ins over the last 5 minutes.</i>
[+] Page_In_15Min	<i>The average rate of page ins over the last 15 minutes.</i>
[+] Page_In_60Min	<i>The average rate of page ins over the last 60 minutes.</i>
[+] Page_Out_1Min	<i>The average rate of page outs over the last 1 minute.</i>
[+] Page_Out_5Min	<i>The average rate of page outs over the last 5 minutes.</i>
[+] Page_Out_15Min	<i>The average rate of page outs over the last 15 minutes.</i>
[+] Page_Out_60Min	<i>The average rate of page outs over the last 60 minutes.</i>
[+] Page_Scan	<i>The number of pages examined per second over over the previous 30-second interval.</i>
[+] Page_Scan_KB	<i>The number of kilobytes in pages that the virtual memory manager scans per second averaged over the previous 30-second interval.</i>
[+] Page_Scan_1Min	<i>The average rate of page scans over the last 1 minute.</i>
[+] Page_Scan_5Min	<i>The average rate of page scans over the last 5 minutes.</i>
[+] Page_Scan_15Min	<i>The average rate of page scans over the last 15 minutes.</i>
[+] Page_Scan_60Min	<i>The average rate of page scans over the last 60 minutes.</i>

[+] TABLE: Unix_File_Pattern

The File Pattern attributes refer to file and match characteristics such as match count and match pattern.

[+] File_Name	<i>Fully qualified file name which will be searched for lines matching a pattern.</i>
[+] Match_Pattern	<i>The grep regular expression used to search for matching lines in File_Name.</i>
[+] Match_Option	<i>Options that affect how the search is performed.</i>
[+] Match_Count	<i>The number of matches for the specified pattern in the specified file.</i>

[+] TABLE: Unix_File_Comparison

The File Comparison Group attributes refer to file characteristics such as file compare result and file name.

[+] File_Name_1	<i>Fully-qualified file name of one of the files to be compared.</i>
[+] File_Name_2	<i>Fully-qualified file name of the other of the files to be compared.</i>
[+] File_Compare_Option	<i>Options that affect the how the comparison is performed.</i>
[+] File_Compare_Result	<i>The result of the file comparison between File_Name_1 and File_Name_2.</i>

[+] TABLE: Unix_Ping

The UNIX Ping attributes refer to target characteristics such as target host and ping result.

[+] Target_Host	<i>Host name or IP address of the host to be pinged.</i>
[+] Ping_Result	<i>Result from pinging the host.</i>

[+] TABLE: Unix_All_Users

The All Users Group attributes refer to user characteristics such as user ID and user sessions.

[+] Name	<i>The full name of a user.</i>
[+] User_ID	<i>The numeric ID the system assigned to a user.</i>
[+] Password_Null	<i>True if no password is assigned to the user.</i>
[+] User_Duplicated	<i>True if the user name is listed more than once in /etc/passwd.</i>
[+] User_Sessions	<i>The number of login sessions this user currently has established.</i>

[+] TABLE: Solaris_Zones

The Solaris Zones attributes refer to zone characteristics such as init process ID, path, and zone ID.

[+] Name	<i>The name of a zone.</i>
[+] Zone_ID	<i>The full name of a user.</i>
[+] Status	<i>The status of a zone.</i>
[+] Path	<i>The path to the root directory of the zone.</i>
[+] Pool_ID	<i>The numeric pool ID this zone is bound to.</i>
[+] Init_PID	<i>The process ID of the init process for this zone.</i>
[+] Zone_CPU_Usage	<i>The CPU usage of all processes in the zone.</i>
[+] Physical_Memory	<i>The physical memory used by all processes in the zone.</i>
[+] Virtual_Memory	<i>The virtual memory used by all processes in the zone.</i>
[+] Total_CPUs	<i>The number of CPUs that are in the processor set.</i>
[+] Scheduler	<i>The scheduler used by the zone.</i>
[+] CPU_Shares	<i>The weight used by the fair share scheduler to control CPU usage.</i>
[+] CPU_Share_PCT	<i>The percent of the processor set available to this zone.</i>

[+] TABLE: Machine_Information

The Machine Information attribute group contains various items required by other Tivoli products.

[+] Hostname	<i>The hostname for the machine.</i>
[+] Hardware_Manufacturer	<i>The manufacturer of the hardware on which the agent is running.</i>
[+] Hardware_Model	<i>The specific hardware model underlying the monitored operating system.</i>
[+] Number_of_Physical_Processors	<i>The number of physical processors on the machine.</i>
[+] Processor_Megahertz	<i>The detected processor speed for the targeted operating system.</i>

[+] TABLE: UNIX_IP_Address

The IP Address attributes refer to IP address characteristics.

[+] Network_Interface_Name	<i>The name of the network interface.</i>
[+] IP_Address	<i>An IP address associated with the network interface.</i>
[+] DNS_Name	<i>The Domain Name Server (DNS) entry associated with the IP network address.</i>