

# Workload manager

Last updated: 2022-02-28

Workload Manager (WLM) is designed to provide the system administrator with increased control over how the scheduler, virtual memory manager (VMM) and the disk I/O subsystem allocate resources to processes.

You can use WLM to prevent different classes of jobs from interfering with each other and to allocate resources based on the requirements of different groups of users.

**Attention:** Efficient use of WLM requires extensive knowledge of existing system processes and performance. If the system administrator configures WLM with extreme or inaccurate values, performance will be significantly degraded.

WLM is primarily intended for use with large systems. Large systems are often used for server consolidation, in which workloads from many different server systems (such as printers, databases, general user, and transaction processing systems) are combined into a single large system to reduce the cost of system maintenance. These workloads often interfere with each other and have different goals and service agreements.

WLM also provides isolation between user communities with very different system behaviors. This can prevent effective starvation of workloads with certain behaviors (for example, interactive or low CPU usage jobs) by workloads with other behaviors (for example, batch or high memory usage jobs).

Also, WLM ties into the accounting subsystem allowing users to do resource usage accounting per WLM class in addition to the standard accounting per user or group.

## Workload management concepts

With WLM, you can create different classes of service for jobs, as well as specify attributes for these classes.

## Administering Workload Manager

Workload Manager (WLM) gives system administrators more control over how the scheduler and the virtual memory manager (VMM) allocate resources to processes. Using WLM, you can prevent different classes of jobs from interfering with each other and you can allocate resources based on the requirements of different groups of users.

## Classes

Workload Manager helps you control the allocation of system resources by defining classes of service and allocating resources to each of these classes.

## Process classifications in Workload Manager

In WLM, processes can be classified in either of two ways.

## Resource management with Workload Manager

WLM monitors and regulates the resource utilization, on a per-class basis, of the threads and processes active on the system. You can set minimum or maximum limits per class for each resource type managed by WLM, as well as a target value per class for each resource.

## Setting up Workload Manager

Class definitions, class attributes, the shares and limits, and the automatic class assignment rules, can be entered using SMCT, or the WLM command-line interface. These definitions and rules are kept in plain text files, that can also be created or modified using a text editor.

## Troubleshooting Workload Manager

If you are not seeing the desired behavior with your current configuration, you might need to adjust your WLM configuration.

## Workload Manager API

Applications can use the WLM APIs, a set of routines in the `/usr/lib/libwlm.a` library, to perform all the tasks that a WLM administrator can perform using the WLM command-line interface.

## Examples of Workload Manager classification, rules, and limits

Several methods exist for classifying a process, and all operate concurrently.

## Workload Manager commands

WLM offers commands that allow system administrators to perform a variety of functions.

# Ibm Wlm Manual

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