

ORACLE VM 3: SUPPORTED CONFIGURATION MAXIMUMS

ORACLE'S CERTIFIED X86
VIRTUALIZATION SOLUTION

KEY FEATURES OF ORACLE VM FOR X86

- Free to download, use, and distribute
- Dynamic, policy-based management included free of charge
- Improved network and storage configuration
- Rapid application deployment with Oracle VM Templates
- Modern, low-overhead architecture for leading price and performance
- Most scalable server virtualization solution

This document describes the maximum limits for various configuration items officially supported for production use with Oracle VM. You must stay at—or below—the described limits in order to receive production support with Oracle VM.

Notes and Conditions

The limits described here may be affected and/or reduced by other factors beyond the control of Oracle VM itself including the limitations of the guest operating systems and/or server hardware. In such cases where the guest operating system or server hardware has limits that are lower than the Oracle VM limits, the supported maximum is equivalent to the limit of the guest software or physical hardware as determined by their respective vendors: these limits should not be interpreted as permitting higher limits than are permitted in the operating systems or hardware as defined by the vendor of those products.

Configuring for a maximum on multiple items simultaneously may not be supported or functional. For example, supporting the maximum number of VMs per server, with each VM having the maximum number of memory configured would exceed the maximum amount of physical memory supported in a single system. As a result, the user should review configurations to ensure that the maximums are not unintentionally exceeded.

Oracle VM 3 Maximum Limits

This section contains the configuration maximums for Oracle VM. The limits presented in the following tables represent tested, recommended limits, and are fully supported by Oracle. The configuration limits are categorized in the following tables. For the up to date configuration limits, please visit [Oracle VM documentation](#).

Virtual Machine Maximums	
Item	Maximum
Virtual CPUs	128
Virtual RAM on x86 (32-bit) guests	63 GB
Virtual RAM on x86 (64-bit) guests	1 TB
Paravirtualized Guests	
Virtual NICs	31
Virtual disks	109
Hardware Virtualized Guests	
Virtual NICs	8
IDE disks (including CD-ROM and virtual disks)	4
SCSI disks	7

Oracle VM Server Maximums	
Item	Maximum
CPUs	160
RAM	2 TB
Virtual Machines	128

Server Pool and Cluster Maximums	
Item	Maximum
Oracle VM Servers in a server pool	32

Storage Maximums	
Item	Maximum
LUNs in a storage array	1,000
OCFS2 volume size	64 TB
Files per OCFS2 volume	30,000
Virtual disk	10 TB
Virtual IDE drives per device	4

Network Maximums	
Item	Maximum
NICs ports per network bond	2
Network bonds per Oracle VM Server	5

Contact Us

For more information about Oracle VM 3, visit oracle.com/oraclevm or call +1.800.ORACLE1 to speak to an Oracle representative.



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