# 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 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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