Intel® Virtualization Technology (Intel® VT) consists of technology components that support virtualization of platforms based on Intel® Processors, thereby enabling the running of multiple operating systems and applications in independent partitions.

There are two types of virtualization:

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| --- | --- |
| Intel Virtualization Technology (Intel VT) | Improves the fundamental flexibility and robustness of traditional software-based virtualization solutions by accelerating key functions of the virtualized platform, including:   * Speeding up the transfer of platform control between the guest operating systems (OSs) and the virtual machine manager (VMM)/hypervisor * Enabling the VMM to uniquely assign I/O devices to guest OSs * Optimizing the network for virtualization with adapter-based acceleration |
| Intel® Virtualization Technology (Intel® VT) for Directed I/O (Intel® VT-d) | Provides additional performance, security, and flexibility by providing the VMM with the following capabilities:   * I/O device assignment * DMA remapping * Interrupt remapping * Reliability |