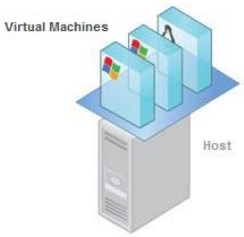
What is Virtualization?

Virtualization is proven software technology that is rapidly transforming the IT landscape and fundamentality change the way people computer. Virtualization breaks the bond between hardware and operating systems. It allows you to run multiple software and operating systems on the same computer at the same time. Virtualization can help to increase hardware utilization, reducing capital expenses, energy consumption and operating costs while saving you money. Virtualization is a new technology and requires experience and expertise. RL Computing is an official VMWare Solutions Provider.

What is a Virtual Machine?



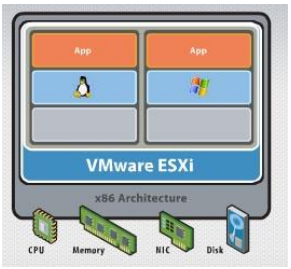
A virtual machine (VM) is a software computer that, like a physical computer, runs an operating system and applications. An operating system installed on a virtual machine is called a guest operating system. Because every virtual machine is an isolated computing environment, you can use virtual machines as desktops or workstation environments, as testing environments or to consolidate server applications. Virtual machines run on hosts. The same host can run many virtual machines.

What is a Host?

A host is a computer that uses virtualization software, such as VMWare ESXi, to run virtual machines. Hosts provide the CPU and memory resources that virtual machines use and give them access to storage and network connectivity.

VMWare ESXi

VMWare ESXi is a hypervisor, which is the core technology that lets you create virtual machines and allocate resources to them. ESXi is a proven hypervisor technology that is only 32MB and runs independent of a general purpose of operating system. It allows performance, scalability and reliability in virtualization. The slim 32MB footprint simplifies tasks like security hardening, user access control, anti-virus and backup, all adding to a more reliable and safer computing environment. VMWare ESXi advance memory and network management features allow memory and I/O intensive applications like e-mail, databases and custom applications to run with minimal performance overhead.

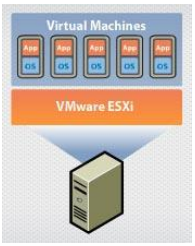


VMWare ESXi offers the broadest operating system support, including support for various 32bit and 64bit versions of Windows, Linux, Solaris and Netware. With ESXi installed you can run multiple operating systems on a single server and save on hardware, power and cooling costs.

Server Consolidation

Server consolidation allows organizations to take control of their IT infrastructures. By consolidating your server hardware with virtualization, your organization can increase utilization of existing hardware up to 80%. The traditional "one workload, one server" approach to server provisioning inevitably leads to over-provisioning and underutilization of hardware assets. RL Computing IT Support Team can help assess your current IT infrastructure and environment to identify consolidation candidates and help you to take advantages of the savings from using virtualization.

How can virtualization help my current IT infrastructure?

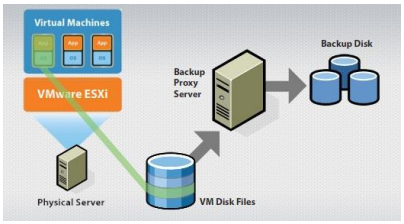


Virtualization tools allow organizations to convert their current servers into virtual machines. Live migration of operating systems lets you perform hardware maintenance without scheduling downtime and disrupting business operations. RL Computing can help transform your IT infrastructure into an efficient, flexible and optimized structure regardless of the size of your organization.

How reliable is virtualization?

Virtualization is very reliable. Virtualization can help you eliminate planned downtime, ensure data protection, deliver high availability and be better prepared for disaster recovery. The Fault-Tolerance (FT) feature of VMWare, helps protect against physical hardware failures, including network card failures, storage path failures and other hardware failures.

How do I backup my data with virtualization?



Hardware, storage failures and even user error can all cause data loss. Virtualization allows the backup and recovery of applications, systems and data needs to be fast, flexible and easy. RL Computing can help use your existing backup tools and methodologies while integrating in the new backup methods of virtualization to reduce downtime in the event of a disaster or data loss.