

# 7.1. VMware

## ■ Neki od VMware proizvoda su:

- ❖ *VMware Workstation*
- ❖ *VMware Fusion*
- ❖ *VMware Player*
- ❖ *VMware ESX*
- ❖ *VMware Server*
- ❖ *Vmotion* u radnom stanju i bez prekida u radu sa jednog na drugi fizički host

## ■ Drugi VMware alati omogućuju:

- ❖ *virtuelizaciju programa/aplikacija (VMware ThinApp)*
- ❖ *upravljanje ESX/ESXi okolinom (VMware Infrastructure)*
- ❖ *druge primene*

# VMware

vCenter Server (\$) (license manager)	Server	ESX (\$) (vMotion, DRS, HA, Storage vMotion)		
	hardware	ESXi (freeware) (ESXi freeware is managed by the Virtual Infrastructure (or vSphere) Client) ESXi (\$) (vMotion, DRS, HA, Storage vMotion)		Guest OS Guest OS Guest OS...
Workstation hardware	Windows or Linux OS	User session	<a href="#">VMware Server</a> (freeware)	Guest OS
			<a href="#">VMware Workstation</a> (\$)	Guest OS
			<a href="#">VMware Player</a> (freeware)	Guest OS...
			vSphere Client for managing ESX(i) hosts (freeware)	

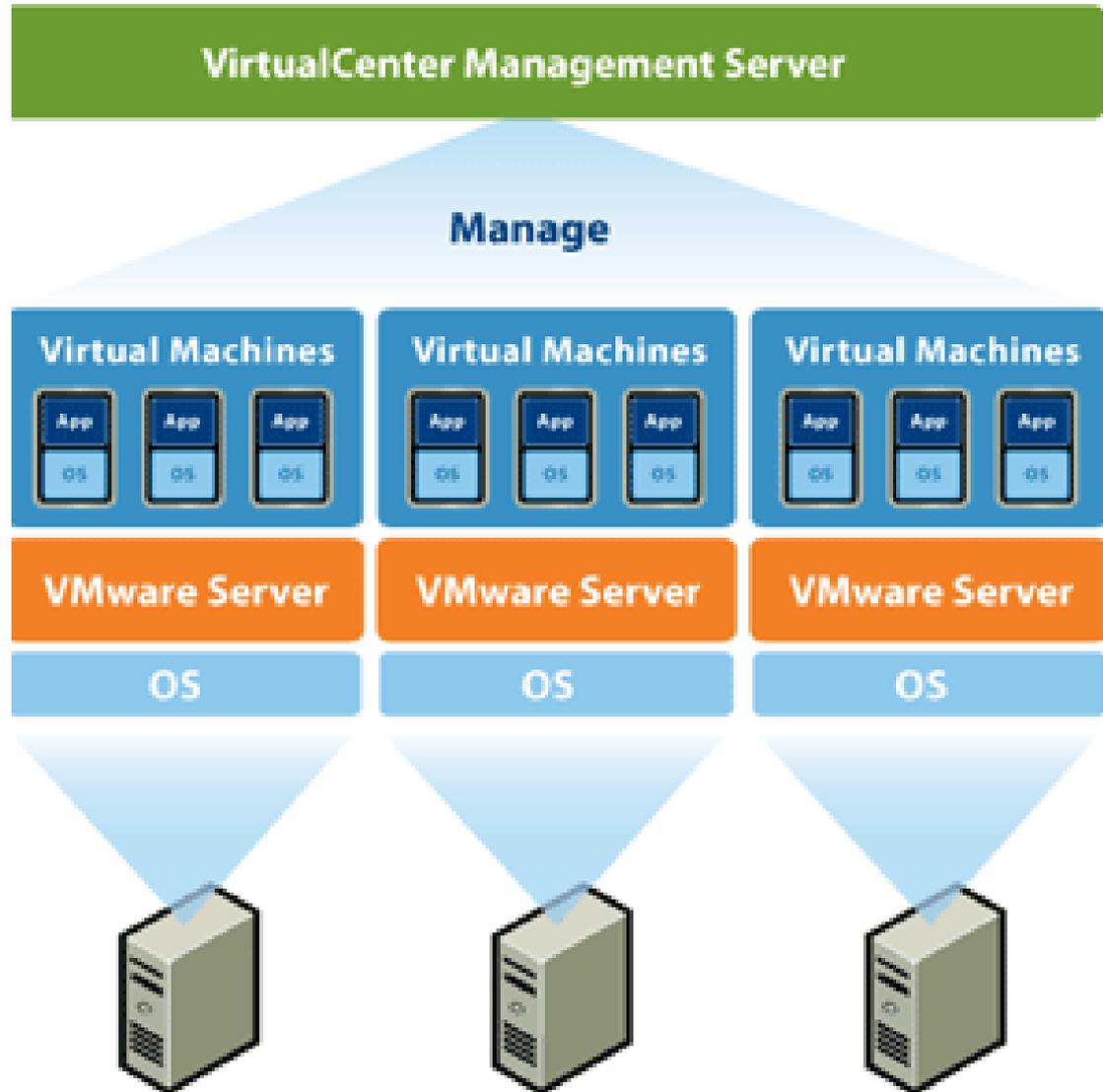
# VMware- Application Platform

- **VMware vFabric tcServer**, an enterprise **Tomcat App server**.
- **VMware vFabric Enterprise Ready**, an enterprise **Apache Web server**.
- **VMware vFabric Hyperic** provides web and custom application monitoring and performance management for physical, virtual and cloud environments.
- **VMware vFabric GemFire** enables real-time data distribution, caching and management for modern applications.
- **RabbitMQ** provides robust and reliable inter-system messaging for modern applications.
- **VMware vFabric SQLFire** is memory-oriented data management software delivering application data at runtime with horizontal scale and lightning-fast performance while providing developers with the well-known SQL interface and tools.
- **VMware vFabric Web Server** increases your web tiers performance, scalability and security while reducing deployment times and complexity with VMware vFabric Web Server, the HTTP server and load-balancing component of the vFabric Cloud Platform

# VMware- Backup software

- In April 2011, EMC transferred control of Mozy to VMware, a move which will assist VMware in targeting its increasing number of cloud-based offerings towards small and medium-sized business
- Mozy produces two products: MozyHome and MozyPro
  - ❖ **MozyHome** is the consumer version of the Mozy backup service. It is available to buy on a monthly subscription
  - ❖ **MozyPro** is the business class version of the Mozy backup service. MozyPro requires a separate license for each computer that is being backed up, as well as a server license for any server that is being backed up. Customers then pay per gigabyte of data they have in the data center

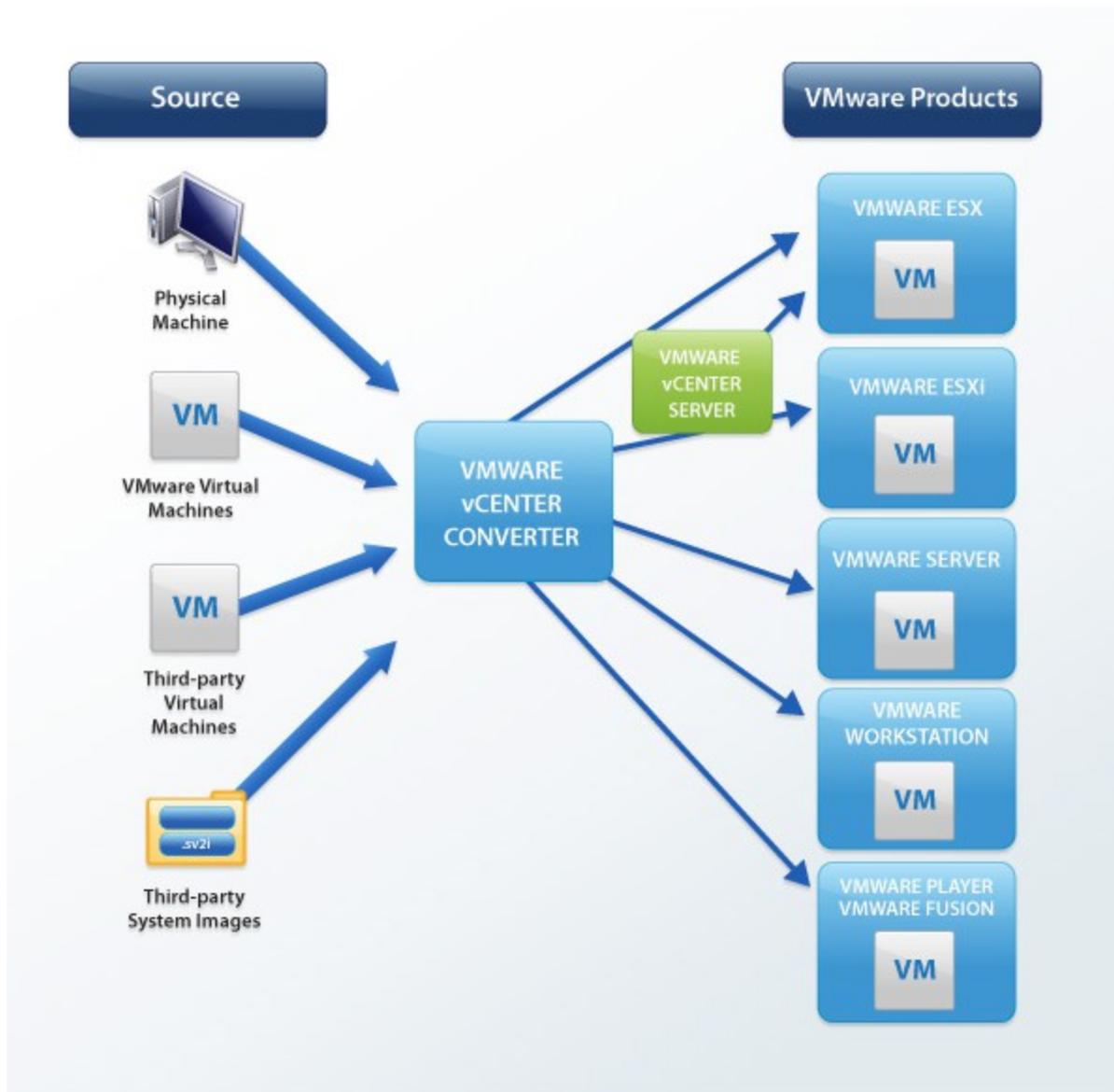
# VMware - Vcenter



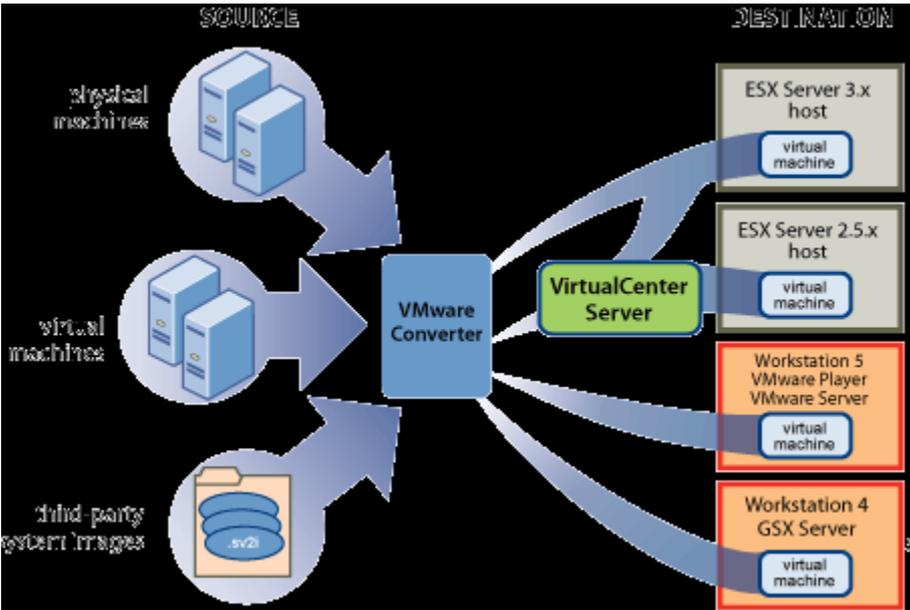
# VMware -VMware vCenter Converter

- **VMware vCenter Converter** (VMware Converter) comes in both Enterprise (\$, bundling and entitlement with vCenter Server) and Standalone (free) versions and is **designed primarily for the following tasks**:
  - ❖ **Convert a physical machine into a virtual machine; referred to as Physical-to-Virtual or P2V**
  - ❖ **Convert a virtual machine of one type into another (V2V)**
  - ❖ **Run automated configuration tasks on VMware ESX/ESXi servers**
- Converted VMs are compatible with VMware ESX/ESXi, VMware Server and VMware Workstation. A P2V conversion can be done from any physical machine running Microsoft Windows (XP or later) or Linux based (Linux only works on Standalone version). Conversions can be managed from a centralized console allowing for multiple conversions at the same time (using the Enterprise version). VMware vCenter Converter replaces the older VMware products "P2V Assistant" and "Importer". P2V Assistant allowed users to convert physical machines into virtual machines; and Importer allowed the import of virtual machines from other products into VMware Workstation.

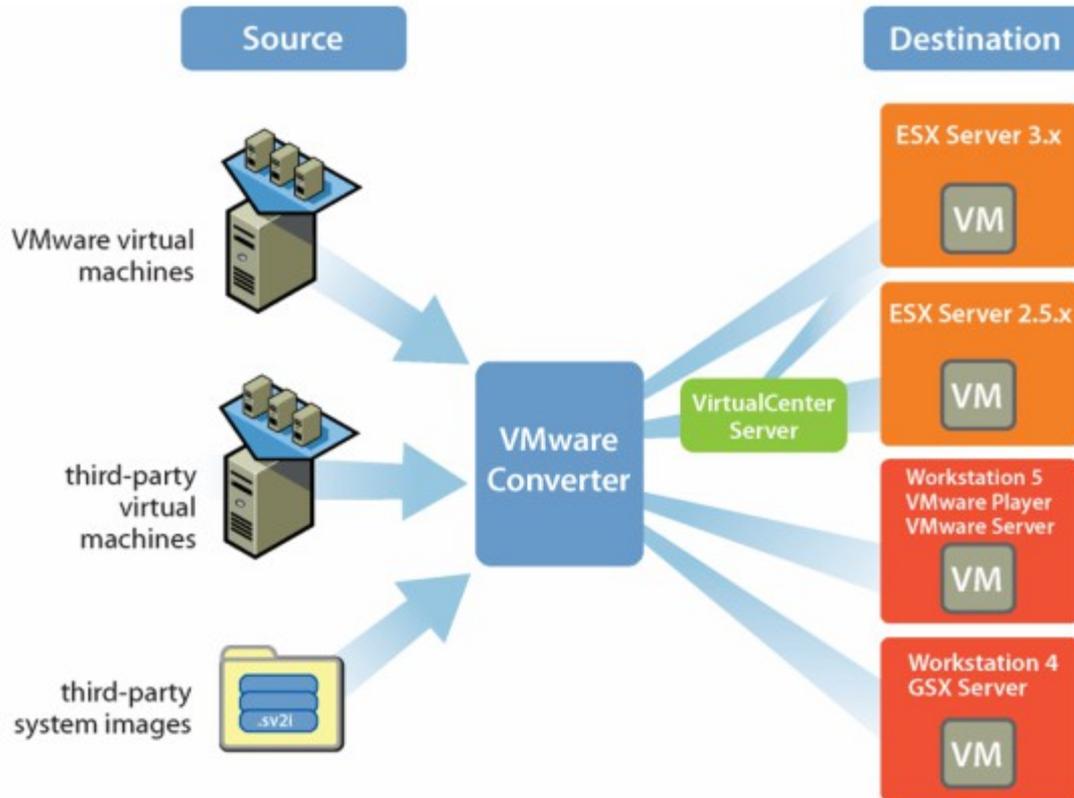
# VMware -VMware vCenter Converter



# VMware -VMware vCenter Converter



# VMware -VMware vCenter Converter



# VMware - other

- **VMware Capacity Planner**, an information technology (IT) capacity planning tool, collects utilization-data in heterogeneous computing environments and compares it to industry-standard reference-data to provide analysis and decision-support modeling.
- **VMware ACE** provides a means of distributing secured virtual desktops to networked client PCs.
- **VMware ThinApp**, formerly Thinstall, is a virtualization suite capable of creating portable software ("portable apps"). This software enables applications to execute without being previously installed.

# VMware- Other products

- VMware ThinApp, one of the most recent products from the company



# VMware - VMware ThinApp

- VMware ThinApp (formerly Thinstall) is an **application virtualization and portable application creator suite** by VMware that can package **conventional applications** so that they become **portable applications**. According to VMware, the product has a success rate of about 90-95% in packaging applications



# VMware

VMware ThinApp



<b><u>Original author(s)</u></b>	Jitit Inc.
<b><u>Developer(s)</u></b>	<a href="#">VMware</a>
<b><u>Stable release</u></b>	4.7.1 / April 26, 2012; 58 days ago <sup>[1][2]</sup>
<b><u>Operating system</u></b>	<a href="#">Microsoft Windows</a>
<b><u>Size</u></b>	34 <a href="#">MB</a>
<b><u>Type</u></b>	<a href="#">Application virtualization</a> <a href="#">Portable application creator</a>
<b><u>License</u></b>	<a href="#">Shareware</a>
<b><u>Website</u></b>	<a href="http://www.vmware.com/products/thinapp">www.vmware.com/products/thinapp</a>

# VMware - VMware ThinApp - History

- ThinApp (previously known as Thinstall) was originally developed by Jitit Inc. and was acquired by VMware on January 15, 2008.
- VMware later used the code name VMware Project North Star while the product was in beta.
- On June 10, 2008, VMware announced that the final name for the product was going to be VMware ThinApp.
- The trial version of Thinstall was initially available only to corporations, however VMware now offers a public trial version.

# VMware ThinApp-Technology

- VMware ThinApp is an **application virtualization solution**.
- ThinApp is able to execute applications without them being installed in the traditional sense by virtualizing resources such as environment variables, files and Windows Registry keys.
- The virtual environment presented to the client is a merged view of the underlying physical and virtual resources, thereby allowing the virtualization layer to fool the application into thinking that it is running as if it were fully installed.
- ThinApp does not have any pre-installed components and does not require the installation of device drivers allowing applications to run from USB keys or network shares without ever requiring Administrator rights.

# VMware ThinApp-Technology

- ThinApp converts standard application installers such as .msi files into self-contained EXE files which includes everything required to run. Also it is able to scan a system before and after an application's installation and create a portable executable based upon changes made to the systems files and registry.
- Unlike self-extracting ZIP files, ThinApp does not extract files to disk or require system registry changes in order to run applications.
- ThinApp supports all released x86-based Windows systems from Windows NT4, 2000, XP (64/32), Vista (64/32), Server 2003, Server 2008 (64), Server 2008 R2 (64), and Windows 7 (64/32).

# VMware - VMware ThinApp

- Editions
- The most "basic" version of ThinApp is
- "VMware ThinApp Starter Edition",
  - ❖ offered for free with any purchase of VMware Workstation,
- while the most "advanced" version is
- "VMware ThinApp Enterprise Edition",
- which adds support for
  - ❖ AppSync updating
  - ❖ Active Directory integration
  - ❖ and allows usage by multiple users (both for the ThinApp Packager and ThinApp Client)

# VMware - VMware ThinApp

- Software compatibility
- Many Windows applications can be packaged and made portable with VMware ThinApp, with the following notable **exceptions**:
  - ❖ Any software that installs and requires a device driver to function. Applications that use pre-installed device drivers can function without issues
  - ❖ **Some software with copy protection based on hardware**. ThinApp will virtualize some hardware properties such as harddrive serial numbers but applications that bind to things like ethernet MAC address or CPU-ID may not run when moved to another PC.