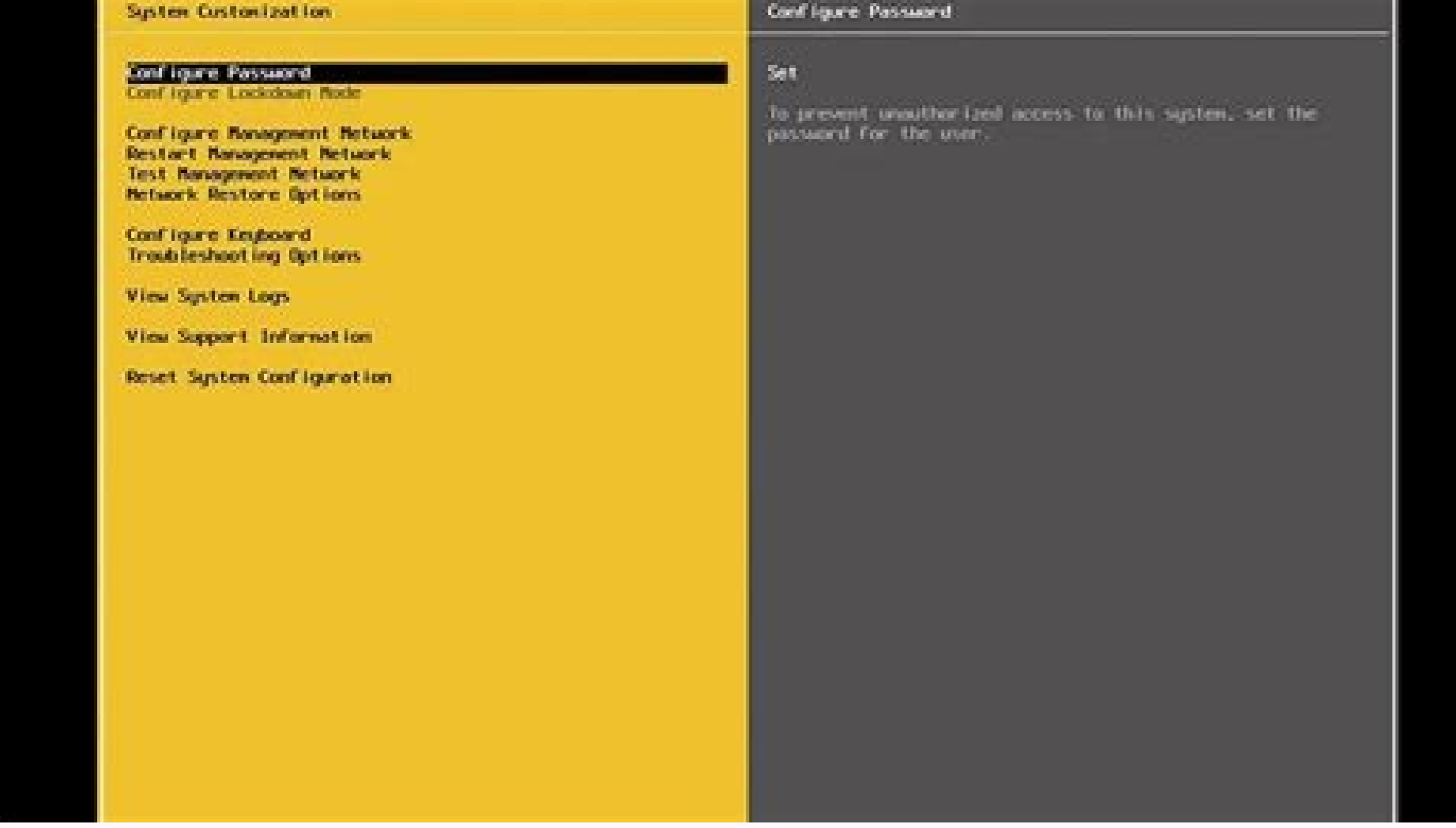
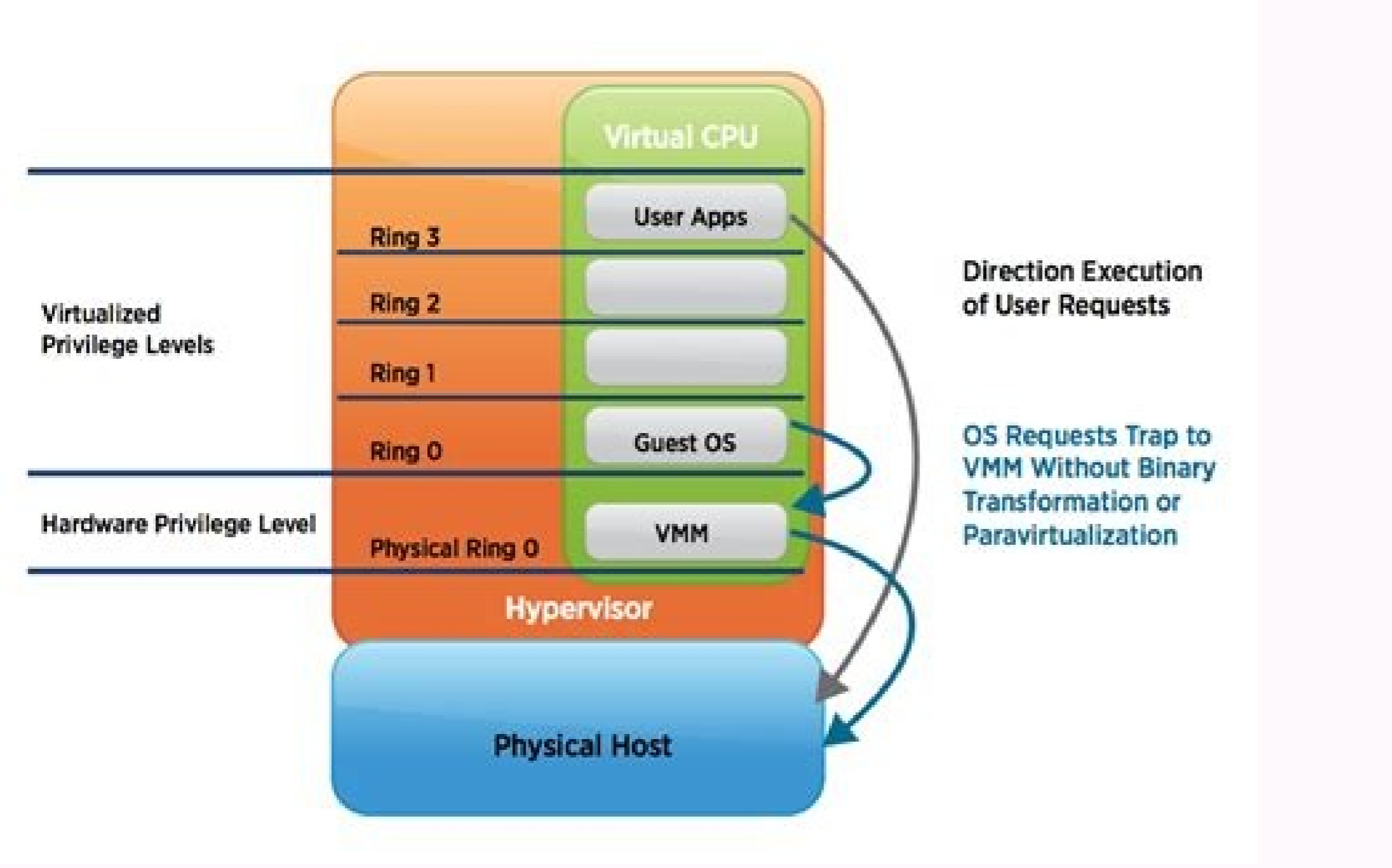
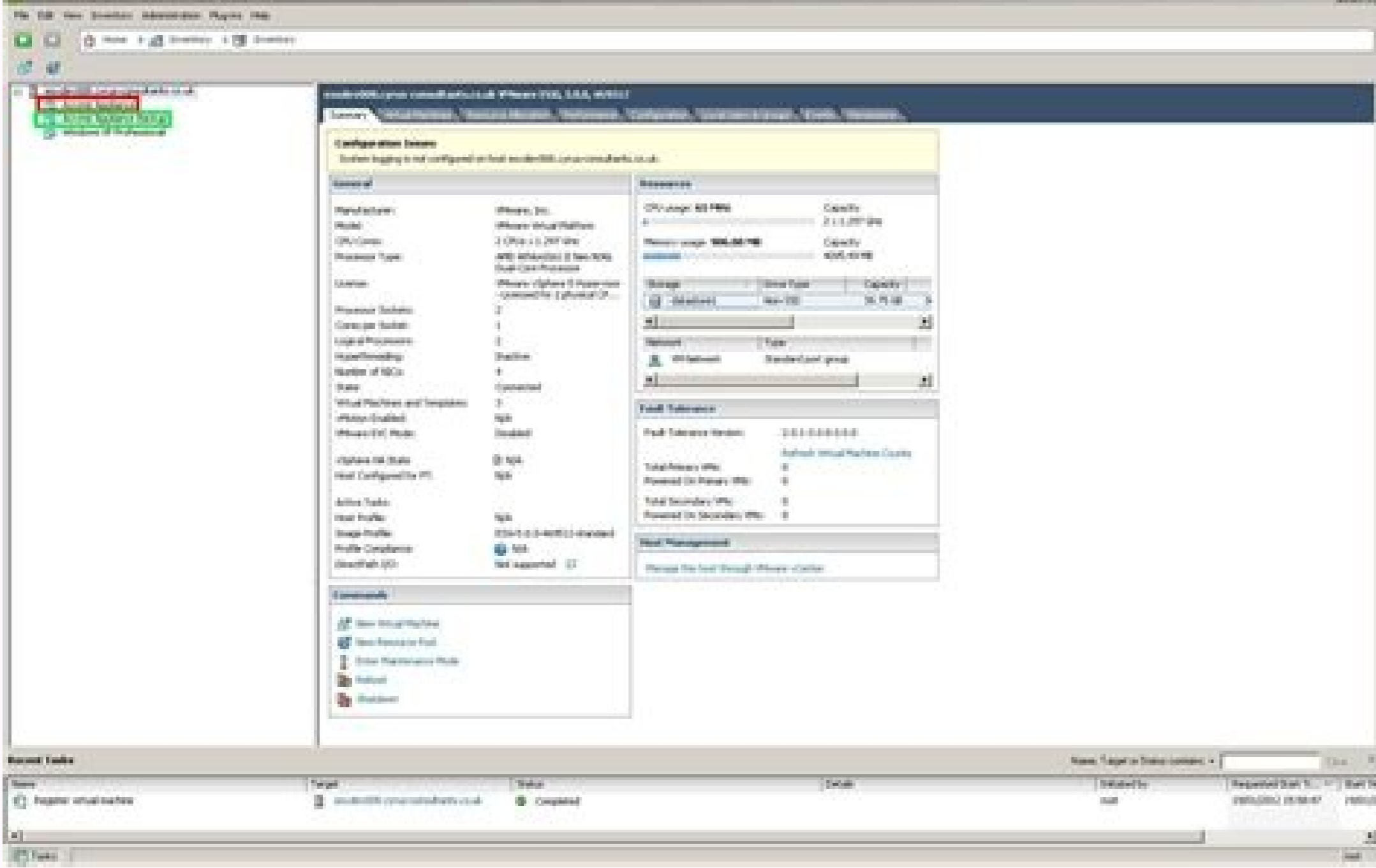


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When it comes to VMware in your datacenter, you've probably heard a number of terms thrown around when talking about it. Some may call it vSphere, some may call it the ESXi environment, or some may just refer to everything as VMware. Today I want to take a closer look at the VMware products we all use in our data centers each and every day, and how they are related. What is VMware vSphere? vSphere is VMware's core data center software suite, consisting of VMware vSphere ESXi (hypervisor) and VMware vCenter Server (management platform). It is not a single product or entity, but everything you need to a virtualized data center. VMware vSphere ESXi is the software that runs on your physical server, to allow virtual machines to run on it. This software is a special type of software called a hypervisor. VMware vCenter is the management component of VMware vSphere, and besides acting as the centralized management point is the brains of your vSphere environment. It brings features like DRS, HA, and more to vSphere. Does VMware have additional products that touch the vSphere platform, or are even apart of it? Absolutely. As of vSphere 7, there has been a huge push on Kubernetes. This enhanced functionality falls under of the scope of VMware vSphere. Now, let's take a closer look at each of these components, and how they relate to each other. vSphere vs ESXi I'm going to start with vSphere vs ESXi, since this can be somewhat confusing. Let's start by going straight to VMware. Here is what you see on one of the download pages: As you can see it says "VMware vSphere Hypervisor (ESXi ISO)". Before it was called ESXi, it was called ESX. The change from ESX to ESXi was more than just a renaming of an operating system, however. There are currently no longer any supported version of ESX available. If you're looking for a good history lesson, don't miss ESX vs ESXi explained. So what is ESXi? ESXi is the name of the operating system that runs on your physical servers. It is also referred to as the VMware vSphere Hypervisor, and is a component of VMware vSphere. It may be kind of confusing to be called the VMware vSphere Hypervisor, but in a way it does make sense. If we just call it ESXi, which many of us have a tendency to do, people who are new to virtualization may not automatically associate it to vSphere. You need more than just the hypervisor for vSphere though. vSphere vs vCenter When we think of vSphere, we often associate a number of features with it. Things like DRS, vMotion, HA, Host Profiles, Lifecycle Manager, and more. So what's the difference between vCenter and vSphere? vCenter brings these components into vSphere. vCenter is the centralized management point for your vSphere environment, and provides all of these features (and more) to vSphere. By the way, vCenter is fully known as the VMware vCenter Server Appliance. Under the covers, the operating system vCenter runs on is PhotonOS, which is VMware's linux distribution, designed with virtualization in mind. Where is the vCenter appliance installed? Great question! Since VMware vCenter Server comes as a VMware appliance, you need to have at least an ESXi host to deploy it on. This means if you are installing a brand new VMware vSphere environment, your first step is to deploy a single ESXi host, so you can then deploy the VMware vCenter Server Appliance. You may hear people refer to it as simply vCenter, or the VCSA. VMware vSphere Versions Remember, when we talk about VMware vSphere, we are talking about at least the two major components: the VMware vSphere Hypervisor ESXi and VMware vCenter Server, the management component. There are also different version of VMware vSphere available, purely from a licensing perspective. No matter what version of VMware vSphere you use, the bits and bytes of the product remain the same. For large enterprises, there are vSphere Standard, vSphere Enterprise Plus, and vSphere Platinum. For smaller environments, or those just getting started with VMware products, there are VMware vSphere Essentials and Essentials Plus. Finally, for those who are looking to deploy vSphere in a more distributed manner, there are VMware vSphere Remote Branch Office Editions. The thing to keep in mind is that with the "Plus" or "Advanced" versions of VMware vSphere, you get all of the great features that vCenter can provide you with. vSphere vs vCenter vs ESXi Explained Let's recap this one more time. VMware vSphere is a software suite, which consists of two main components: VMware vSphere Hypervisor, ESXi VMware vCenter Server These components work together to provide the features in our data center we almost take for granted these days. NAKIVO Blog > VMware Administration and Backup > VMware ESXi vs vSphere vs vCenter: Key Differences If you've never used VMware, vast array of products and features associated with this vendor may seem nothing less than confusing. The aim of this blog post is to demystify and explain the difference between vSphere, ESXi, and vCenter. In fact, the key point in the ESXi vs vSphere vs vCenter discussion is that these technologies are too different to compare. vSphere is an industry-level virtualization platform and a foundation for a cloud-based infrastructure. The vCenter Server is a centralized platform for managing vSphere environments. It allows you to assign custom roles to users, create new VMs, search the vCenter Server inventory, etc. with just a few clicks. Finally, ESXi is the hypervisor that provides a means of deploying and serving virtual machines (VMs). Find a detailed description of each piece of technology below. NAKIVO Backup & Replication offers functionality to back up and replicate the workloads in your VMware-based environment, reliably protecting your data and giving you peace of mind. Discover more details below and don't hesitate to try out the Free Edition of our software to see its benefits in action. What Is VMware vSphere? As defined by VMware, vSphere is an enterprise-scale virtualization platform. In fact, vSphere is the brand name for VMware's suite of virtualization products and features. This solution allows you to build a reliable and resilient infrastructure to suit basically any business needs while staying on budget. The functionality of vSphere greatly helps existing data centers shift to cloud computing, and offers a means of increasing hardware utilization from 5-15% to as much as 80% or higher without compromising on performance. One of the benefits of vSphere is its potential to reduce unplanned downtime and fully eliminate downtime required for storage and server maintenance. Here is a brief overview of vSphere functionality: Virtual data center management: Create and manage multiple VMs with ease. Migration: Perform live migration of your workloads and maintenance of your datacenters without downtime. Support for remote locations: Manage your remote offices with little to no local IT administrators. Flexibility: Build an environment to satisfy your needs using vSphere and the VMware stack, and open-source frameworks, such as OpenStack or VMware's Integrated OpenStack add-on. A comprehensive description of the vSphere functionality and features would need a separate blog post. VMware calls vSphere "the heart" of a modern software-defined data center (SDDC), which allows you to run, manage, connect, and protect your applications in a common environment across multiple clouds. vSphere vs ESXi: Virtualization Platform and Hypervisor ESXi is a hypervisor, or a type of virtualization software that allows you to create and manage multiple virtual machines using a single physical host. ESXi is installed directly on a physical machine, meaning that it is a bare-metal hypervisor. Unlike ESX, its predecessor, ESXi operates independently from any general-purpose OS, which greatly enhances security and simplifies management. Additionally, the architecture of ESXi allows you to speed up the process of deployment and configuration. One of ESXi's key benefits, touched on above, is the security level it provides. ESX and ESXi are equivalent in terms of functionality and performance. The difference lies in the architecture. In ESXi, the Linux-based service console has been replaced with new remote command line interfaces. This offers a way to reduce the on-disk footprint to less than 32 MB (as opposed to 2 GB in ESX 3). In turn, a smaller footprint allows you to reduce the overall attack surface. A virtual representation of the processing and memory resources of a physical machine running ESXi is known as a host. Two or more ESXi-can be grouped into a cluster. You can dynamically add or remove the machines running ESXi from a cluster, and partition the processing and memory resources from hosts and clusters into a hierarchy of resource pools. What Is VMware vCenter Server? VMware vCenter Server allows for centralized management of your virtual infrastructure. You can control your hosts and VMs from a single console, which enhances visibility and helps with error prevention. vCenter Server allows you to optimize routine operations and daily tasks, even if you are managing a large-scale infrastructure. With this functionality, you receive an in-depth insight into the configuration of the key components of your environment. The HTML 5-based vSphere Client provides you with an access to the key functions of vSphere from any browser. Overall, you can run hundreds of workloads, thus reducing the effort required for managing physical environment of the same scale by more than two times. Additionally, the vCenter Server is now running VMware's own Photon OS, meaning that there is no need to bother with any third-party patches or upgrades. Some of the key features of vCenter Server include: Single sign-in: Allow users to access the vCenter Server instances without further authentication after they log in once. Inventory search: Access your VMs, hosts, datastores, and networks in one click. Extensibility and scalability: Run up to 2,000 hosts and 35,000 VMs with a single instance of vCenter Server. Alerts and notifications: Reduce the problem-solving times with triggers that automatically start the workflows required to prevent or remedy the emerging issues. Host profiles: Capture the configuration of your host, including the networking, storage, and security settings, to deploy them to other hosts. The list of vCenter Server features can go on and on. Overall, its key benefit is that it allows for centralized and proactive management of your entire infrastructure, helping you meet the ever-growing demands of your business. Data Protection with NAKIVO Backup & Replication Designed for businesses of all sizes, NAKIVO Backup & Replication offers complete data protection for all of your production workloads, including VMware vSphere Backup, Hyper-V Backup, Microsoft 365 Backup and more. Get the Free Trial now! ESXi vs vSphere vs vCenter: How They Interact Summing up, vSphere is the name for VMware's entire cloud computing virtualization platform. Its mission is to let you virtualize and aggregate the resources of the underlying physical hardware, and provide pools of virtual resources to your datacenter. In turn, ESXi and vCenter Server are two of the components of vSphere. ESXi, the hypervisor, is the virtualization layer that runs directly on physical servers. Its core function is to abstract the resources of the host, such as CPU, memory, and storage capacities, into multiple VMs. vCenter Server can be called a point for centralized configuring, provisioning, and managing the virtual infrastructure. The functionality of vCenter Server allows you to control access permissions, monitor performance, and set up notifications. To connect remotely to vCenter Server, you can use either vSphere Client or vSphere Web Client. With vSphere Client, you can establish a connection from any Windows-based PC, while vSphere Web Client allows you to access vCenter Server from a browser or other operating systems. Experience shows that even with a large number of applications installed, most physical machines remain underused. VMware vSphere addresses this issue, allowing you to allocate resources in a more efficient way. A single physical machine can be used to create multiple independent VMs, each running different OS and applications. Similarly, you can virtualize your entire infrastructure, even if it consists of hundreds of interconnected physical machines and storage devices. Data Protection with NAKIVO Backup & Replication NAKIVO Backup & Replication offers rich functionality to help you safeguard data in your VMware-based infrastructure. You can easily back up and replicate live VMs and all their application data. A quick glance at our key features: Perform image-based, incremental, application-aware VMware server backups, including backups of VM folders, resource pools, ESXi hosts, and VMware ESXi clusters. Create and maintain VMware replicas, or identical copies of your VMs, on a target ESXi host. If your primary VM goes down, you can failover to its replica and restore your operations with a few clicks. Set up rule-based policies to automate data protection jobs and reduce the need for manual intervention. If a newly-added VM matches the rules you establish, it is added to the respective job scope automatically. Run a test recovery of your vSphere backups and replicas to make sure they are valid and can be used if your primary environment is rendered unavailable. Orchestrate and automate the process of VM disaster recovery across multiple sites. Additionally, you can perform non-disruptive recovery testing to make sure that your algorithm of actions works properly. With our software, you receive an opportunity to eliminate data loss risks, reduce downtime, and cut down expenses associated with responding to and recovering from a disaster.

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