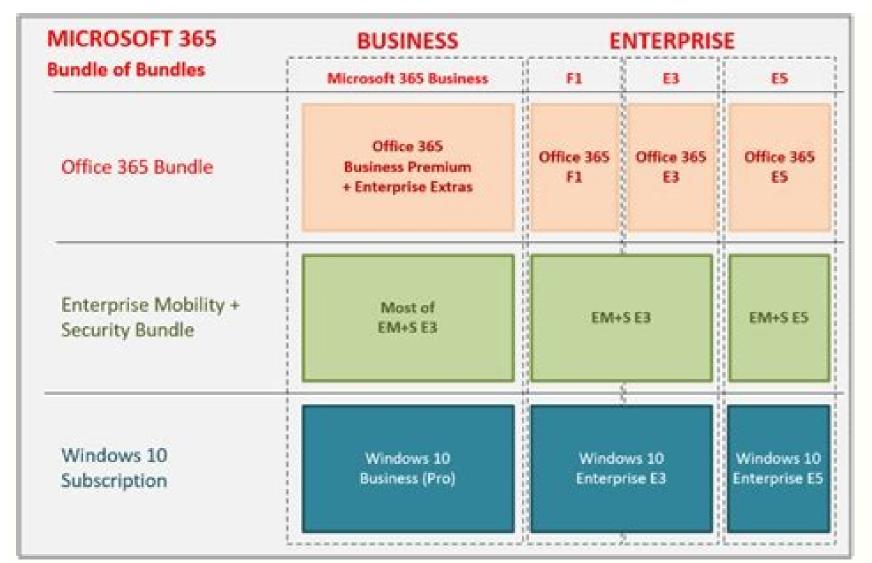
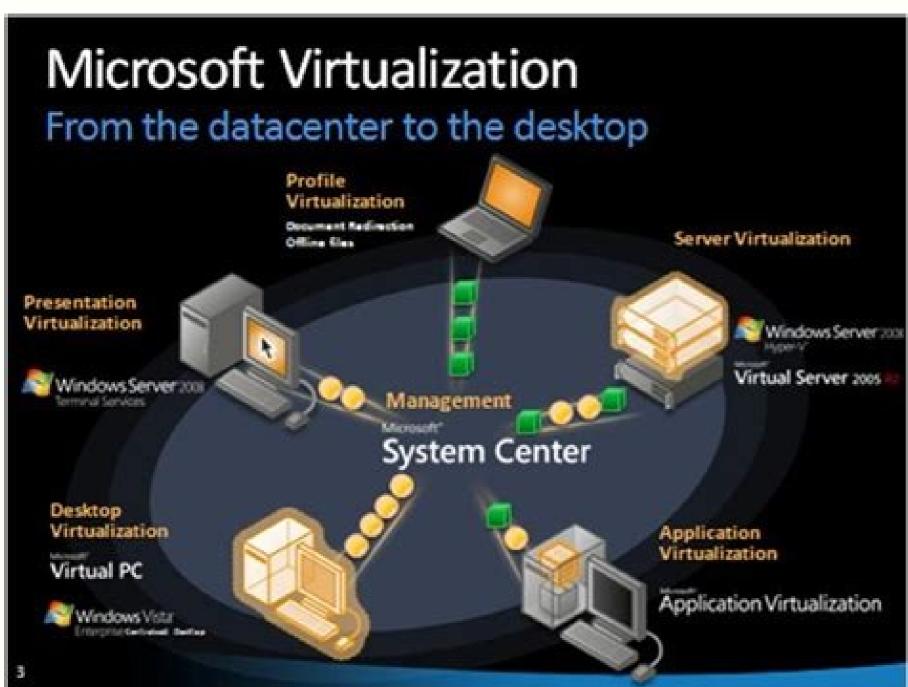
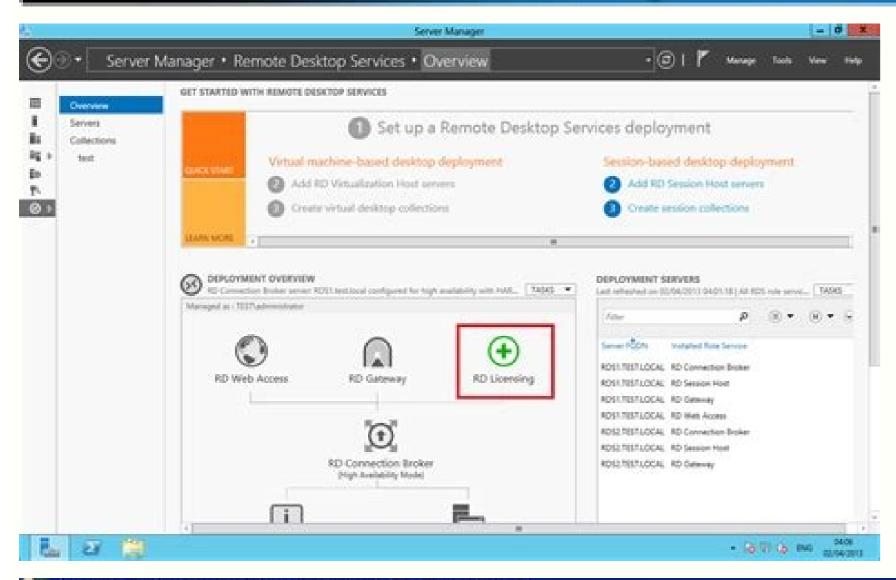
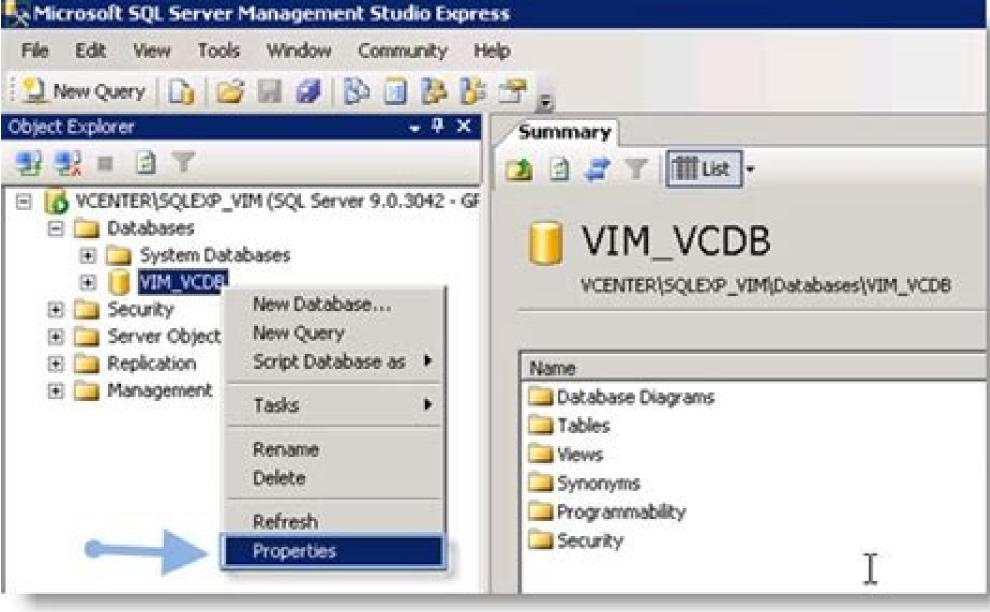
Microsoft virtualization licensing guide

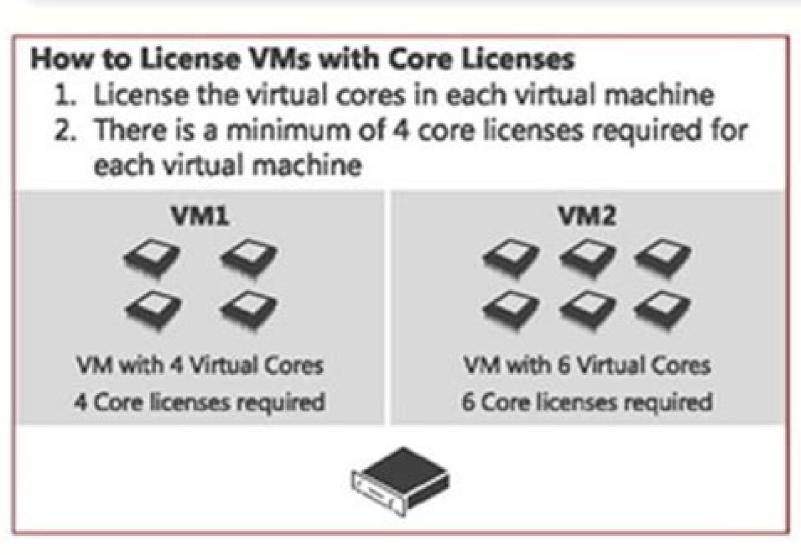
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Server manufacturers are not increasing the number of processors in as cores on a server must be licensed. If a processor supports hyper-thread physical server is 8 (16 cores are covered). Even if your server has one processors in a server, you must buy 4 licenses to cover 8 cores system, the disabled processor doesn't need licenses. Similarly, if a moth virtual machine. The physical OSE term is used when Windows Server 2 costs for one Windows Server 2012 R2 license for two processors equals Essentials, Windows Server 2019 Standard, and Windows Server 2019 Windows Server 2019 Essentials does not support virtualization. Client a Essentials was \$501 when this blog post was written. Windows Server 2 Standard as a guest OS. Windows Server 2019 Standard running on a hot that covers two VMs and one physical server. If you don't run Windows Server 2019 Datacenter is the most powerful edition and is sold for the literature.	ssembled servers, but are installing processors with more cores. The general rules thing, logical cores are not licensed. A core with hyper-threading is counted as one coprocessor, and it has fewer than 16 cores, you must buy licenses for 16 cores. The 1 es. Despite this calculation, you still need to buy licenses for 16 cores because of the herboard on a server has two sockets, but only one processor is installed, you only in 1019 is running on a host. The virtual OSE term is used when Windows Server 2019 is the price for 8 dual-core licenses for Windows Server 2019. If you run a non-Windows Contacenter. Windows Server cost is often a determining factor when choosing an educcess licenses are not required. 25 users and 50 devices are supported by this lice 1019 Standard One Windows Server 2019 Standard license with all licensed cores are ost used for virtualization (as a hypervisor) can be used only to install Hyper-V to rundows on a physical server with Windows Server 2019 Standard installed, you can rundighest price (Windows Server cost for this edition is \$6,155 for 16 cores). The licental cores is server with windows Server 2019 Standard installed.	that are applied to each physical server running Windows Server 2019 on a physicare. One core license covers two CPU cores (a 2-core pack license). There are all 16-core license is a base license. Licensing processors. The minimum number of the second rule. The price for 8 dual-core licenses is the same as the price for a single need to license all the cores of the installed processor. OSE is the operating system is running as a guest operating system (Microsoft virtualized server) on a virtual lows operating system on a virtual machine, this VM doesn't require Windows licelition. Windows Server 2019 Essentials Windows Server 2019 Essentials is the lightense but terminal services cannot be used to allow multiple RDP sessions. Windows licelitions you to run one physical OSE and two virtual OSEs. In other words, you can un VMs. Using the host OS as a full-featured server with two virtual servers is not any needed software and use this server as a full-featured server. The current ensed Datacenter edition covers Windows Server 2019 installed on a host and allowed the server is a server with two virtuals on a host and allowed the server expectation of the server with two virtuals on a host and allowed the server expectation of the server with two virtuals of the server with the virtual server with the server	core processors (with a high number of CPU cores) and the number of cores per processor increased significantly. Sical server as a host operating system or on virtual machines on this server are listed below. All physical processor less 4-core and 16-core licenses. Licensing a server. The minimum number of core licenses that must be bought for a 2-core licenses per processor is 4. At least 8 cores must be licensed for a processor. For example, if you have two ingle 16-core license. A license for 16 cores is the minimum license you can buy. If a processor is disabled in the licement environment. This is a term that defines one instance of Windows Server 2019 running on a physical server or a limachine residing on a physical server. Licensed servers are the servers to which licenses are assigned. Note: The leases. Windows Server 2019 Editions There are three editions of Windows Server 2019: Windows Server 2019 ght edition suitable for small organizations and is licensed per server. There are many limitations in this edition. ws Server 2019 Essentials is well-integrated with Office 365 hosted services. The price for Windows Server 2019 in install Windows Server 2019 Standard on a host machine and run two virtual machines with Windows Server 2019 of allowed. You cannot use three full-featured servers (one physical and two virtual) if you have the Standard license price for a 16-core license for Windows Server 2019 Standard is \$972. Windows Server 2019 Datacenter Windows ows you to run an unlimited number of virtual machines with Windows Server installed as a guest OS. A Windows
Server 2019 Standard for all processor cores of a physical server and insequence of the next even number of VMs. If you need to buy licenses for the next even number of VMs. If you need to account the current price for Windows Server licenses, it may be be multiple Hyper-V hosts or ESXi hosts in your environment, you may need are 10 VMs on the first host, 14 VMs on the second host, and 6 VMs on twindows Server license between physical servers once every 90 days. A instance of Windows Server 2019 installed on a physical server that acts correct AVMA key must be installed in a Hyper-V VM. Licensing Example dual-core licenses for each server (because it is not possible to buy less core processor. Four VMs must run on each server, and Windows Server 1.	stall Windows Server 2019 Standard on a host with the Hyper-V role enabled, then alled on these VMs. This principle is true for VirtualBox, Xen, KVM, etc. If you need ual machines. If you need to run 4 VMs on a physical server that has two 8-core properties to run 3 VMs, you need to buy licenses for 4 VMs, if you need to run 7 VMs, you need to buy Windows Server 2019 Datacenter license etter to buy Windows Server 2019 Standard licenses if you are going to run up to 12 d to migrate VMs between hosts. VM migration is especially needed if you run VMs the third host, you need to buy licenses for each host to cover 30 VMs on each host automatic Virtual Machine Activation Automatic Virtual Machine Activation (AVMA) is as a hypervisor. Windows Server on a VM is activated when a VM starts up. Virtual less Let's look at more examples to understand the Windows Server licensing princip than 8 double-core licenses to license a physical server even if there are less than 1 r 2019 Standard is installed on each physical server. We have to buy 16 double-core	you can run two VMs with Windows Server 2019 Standard. If you run VMware Ed to run 4 virtual machines on a server, then you need to buy one more license (a pressors, you must buy 16 dual-core Standard licenses for Windows Server 2019. You need to buy licenses for 8 VMs, etc. If you use Windows Server 2019 Datacenter, you need to buy 8 dual-core Datacenter licenses for Windows Server 2019. VM 2 virtual machines on a single physical server. If you need to run 14 VMs or more in a cluster. In this case you need to buy the number of licenses to cover all VMs (10+14+6). In this case, each VM is licensed to migrate to any host. VM licenses is a feature that allows you to install a Windows Server license on a Windows viral machines can be activated without an internet connection. There is no need to ple better. Example 1 We have two physical servers. Each server has one 6-core ple cores). Note: VMs used in examples are running Windows Server 2019 of the elicenses or two 16-core licenses for each server. In total, we buy four 16-core licenses.	Windows doesn't depend on the host operating system and hypervisor. For example, if you have licensed Windows ESXi on a physical server and license all cores of this server with the Windows Server 2019 Standard license, then a set of two-core licenses to cover all cores) for this server (the total number of VMs is four and Windows Server 2019. Two license sets cover all cores twice and allow you to run 4 VMs. If you need to run an odd number of VMs on a ter, you don't need to buy additional licenses if you increase the number of VMs with Windows as a guest OS on this I licensing order: Physical cores must be licensed first and only after that virtual machines must be licensed. Taking the more rational decision is to buy Windows Server 2019 Datacenter. VM migration between hosts If you have so on all hosts for each physical server as if you are migrating all VMs from all hosts to one host. For example, if there is don't move with VMs between hosts because the VM licenses are linked to a physical host. You can migrate a rtual server automatically and activate the licenses. The Hyper-V virtual machine activation binds to the activated manage product keys for VMs. Activation is preserved if licensed VMs are migrated between licensed hosts. The processor. Two VMs must run on each server. Windows Server 2019 Standard license can be used. We need to buy 8 edition mentioned in the corresponding example. Example 2 We have two physical servers. Each server has one 12-licenses for the whole Windows Server environment. Example 3 The configuration is the same as in Example 2. Each As a result, we need to buy an additional 16 double-core licenses for each server. Finally, each server has 32 double-
must be 40 double-core licenses (or 5x16 core licenses) for each server. the third server. VMs running Windows virtual servers need to be migra (20x2). The base 16-core license covers 16 cores. We need to license 24 cores must be licensed. You need to buy two 16-core licenses or 16 doubt VMs. As we use a licensed Windows Server 2019 Datacenter on each phyritual machines. However, it is recommended that you back up your VM makes the VM backup. Download the Free Edition of NAKIVO Backup & license Microsoft virtual machines running Windows Server in Azure. Wilcensing. You deploy a Windows Server VM in Azure, but manually active machines and connected clients. This blog post covered the basics of Milliams and connected clients. This blog post covered the basics of Milliams and connected clients. This blog post covered the basics of Milliams and connected clients.	Example 4 There are three servers. The first server has two processors and each pated between hosts. Windows Server 2019 Datacenter is used in this case and, as su cores in addition to that and buy one more 16-core license and two 4-core licenses ble-core licenses. Licensing VMs Each server must be licensed to run the total numb sysical server, which allows us to run an unlimited number of VMs, no additional licenses are running in VMware vSphere clusters and Hyper-V clusters. Use NAKIVO Backup Replication and back up VMs in your virtual environment. VM Licensing in Azure Findows Server licensing is included in Azure payments. You can create Windows Servet and apply your own license you have bought for this purpose. License migration icrosoft Windows Server licensing to help familiarize you with the main licensing proto buy, please contact Microsoft managers to ensure that you buy enough licenses to	processor has 20 cores. The second server has one 18-core processor. The third such, we need to take into account the terms of Microsoft datacenter licensing. Find the core is a simply buy 20 double-core licenses. Server 2. 18 cores must be licensed ber of VMs in the server group or cluster. In our case, we have $30+12+21=63$ VI ensing is required after we have licensed all the CPU cores on each server. Runn & Replication for Hyper-V backup and VMware backup even if your VMs run in Azure is the cloud platform developed by Microsoft that allows you to run virtual erver 2019 VMs in Azure that is automatically licensed and charged with other second allows you to migrate the Windows Server license once per 90 days as with one cinciples and understand how to install Windows Server licenses to license Microsoft or respect the license agreement for Microsoft software products. NAKIVO is not	st be bought for each physical server. Totally the equivalent of 80 cores must be covered on each server and there server has one 32-core processor. There are 30 VMs on the first server, 12 VMs on the second server, and 21 VMs on rst of all, we must buy licenses for the server cores. Licensing cores Server 1. A total of 40 cores must be licensed d. You need to buy a base 16-core license and one double-core license or just buy 9 double-core licenses. Server 3. 32 Ms. The number 63 is odd, and we have to use the even number of 64 VMs. Each server must be licensed to run 64 ming VMs in a cluster makes your virtual environment more reliable, provides load balancing and high availability for the cluster and migrate between hosts. The product automatically detects the host on which a VM is running and machines in the cloud. Licensing Windows Server VMs is also complicated in Azure. There are multiple ways to ervices and cloud resources, such as using CPU, memory, storage, and network resources used by the VM. Hybrid appremises environments. Conclusion Windows Server 2019 licensing is complicated, especially when using virtual posoft virtual machines. This information can also help you estimate Windows Server licensing costs. Even if you are the responsible for any licensing mistakes you make or any possible fines caused by a violation of the Microsoft mazon EC2, and Microsoft 365 backup. For more information, see the licensing and pricing pages.

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