



RedNight

VIRTUAL
DESKTOPS
KEEP IT CAPEX
COSTS DOWN
WITH VIRTUAL
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On-premise solutions can be difficult and expensive to maintain. Remember the last time you switched computers? How long did it take you to update and re-install all of those necessary applications like your OS and Microsoft Office? Between hardware, software and time, how costly was it getting your desktop back to how it used to be? Did you run into any problems? Security issues? Overall, it was probably a pretty frustrating process, more than it should have been.

A virtualized desktop offers a simple, familiar desktop experience that improves security, simplifies management, and removes the stress of current upgrade processes. By virtualizing your desktop, your wallet can also take a break. How? Virtualization eliminates the need to acquire or upgrade physical assets, which are classified as capital expenditures (CAPEX). When you virtualize your desktop and access your applications online, you shift those solutions to being operational expenses (OPEX), which is much more affordable because you only pay for what you need or what you use.



According to the 2016 Spiceworks State of IT report, more than 76% of organizations are taking advantage of virtualization, and this number is set to reach 85% in 2017. Let's define what exactly virtualization is, and why it's taken the IT world by storm.

What is Virtualization?

Virtualization is when you create a virtual, rather than a physical, version of something, like an operating system, applications or a server that share the resources of the host device. This process allows a virtualization professional to divide your physical server into several virtual servers that work independently from each other, yet are still part of the same physical system. Each virtual server can now operate independently and perform their designated functions, while operating on a single server.

Virtualization does work in the cloud, but don't mistake it for BEING the cloud, because it's not. The cloud is a data center that houses multiple

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servers, any of which can be virtual machines (VM). Your VM may be located on- or off-premise, but best practices advise that you backup your data to another location as well.

So, what benefits does this bring? Well, physical servers require expensive power, cooling, and ongoing maintenance while taking up space and only utilizing 10% of the hardware resources for its singular task. By virtualizing your physical server into multiple virtual servers you reduce costs (not buying additional physical units) while increasing efficiency (making use to all the servers resources). It also significantly expands your opportunities. With a server virtualized and tasked to drive virtual desktops you could run 100 virtual desktops that each run it’s own virtual OS, accesses shared applications and has assigned storage on the same server. Now, internally, you can use much cheaper thin clients for employees to access their virtual desktops, or implement a Bring Your Own Device (BYOD) policy and provide them with VPN access when they work from home.

Operating from the Cloud rather than on-premise, physical servers also provides you with mobility benefits, including the ability to access and enjoy a high quality desktop experience anywhere, anytime, on any web-connected device.



amazonWorkSpaces

Amazon WorkSpaces

(AWS) is a fully managed, secure desktop as a service that runs on the AWS cloud

The Benefits of Virtualization - Amazon WorkSpaces

An example of virtualization in action is [Amazon WorkSpaces](#). Amazon WorkSpaces (AWS) is a fully managed, secure desktop as a service that runs on the AWS cloud. This allows you to “easily provision cloud-based virtual desktops and provide your users access to the documents, applications, and the resources they need from any supported device, including Windows and Mac computers, Chromebooks, iPads, Fire tablets, Android tablets, and Chrome and Firefox web browsers.” In addition to convenience, additional advantages of AWS, include:

- **Simple to use** - AWS manages itself with automatic maintenance and patching, allowing you to just enjoy the services. This also allows for easier scalability.



- **Customization of services** - AWS allows you to customize your desktop to your unique business operations by choosing the hardware settings and applications you need. You have the freedom to do as you like with your applications, including the ones that come with your AWS account.
- **More storage space** - What business doesn't need this?
- **Security** - Not only will AWS constantly back up your data in the AWS Cloud, but it will also compress, encrypt, and encode data so that only images are transmitted.
- **Affordable** - With AWSs, you pay either monthly or hourly just for the services you launch. Compared to traditional desktops, this can save you a lot of money.
- **Flexibility to work from anywhere** - This option has been proven to increase employee engagement and productivity.

As you can see, there are many reasons why such a high percentage of business have adopted this IT solution. With all of these benefits, a virtual desktop can drastically increase your company's productivity. At [RedNight Consulting](#), let us help you transform your desktop into a virtual one. [Contact us](#) today!

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RedNight

12 Journey, Suite #280
Aliso Viejo, CA 92656

949-464-7330 | SALES@REDNIGHTCONSULTING.COM