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Application virtualization in cloud computing pdf

There are a million articles and blog posts out there about virtualization and cloud computing and their respective benefits, but here's why you should read this: to find out why virtualization provides even more benefits when shipping in the cloud. More and more data centers are virtualized, by now you have taken virtualization in your data centers. At the end of 2012, about 70 percent of all companies launched at least some work loads of applications as virtual instances. Confidence in virtualization has grown over the past few years as more sustainability features have been built into hypervisors and virtual machine management platforms (VM), and companies are increasingly moving more of their workloads and more of their critical applications into virtualized environments. I found this one industry study that found that the percentage of workload instances of SAP, Oracle, DB, and Microsoft S/L that were virtualized roughly doubled from 2010 to 2012. Let me consider the benefits of virtualization I don't even know why I'm trying to summarize the benefits of virtualization. I think it's for Rip Van Winkles among us. If, by chance, you've been sleeping for the last century, virtualization allows you to consolidate and run applications on fewer physical servers, resulting in a level of server usage and reducing your operating costs. In addition, virtualization provides quick security and deployment, improved workload balancing, and increased stability and availability, enabling you to move virtual machines dynamically from server to server. What we are now figuring out (and some of you are more ahead of you than others) is that virtualization and cloud computing coincide in heaven. The benefits of virtualization can be increased when virtual machines are launched in a cloud service. In particular, a managed cloud service. For example, one of the key benefits of virtualization is that companies can make better use of their IT resources. This advantage is compounded by the use of the cloud infrastructure service. This is because cloud infrastructure services optimize capacity based on needs. Basically, you only have to pay for the resources needed to meet the performance characteristics of your VMs. If you need more capacity or computing power, i.e. more users need access to the same application or your database doubles in size, you can use the cloud service provider's infrastructure to meet these new requirements rather than create their own. In addition, virtualization gives you the ability to easily migrate and balance performance-based workload. This is especially useful when your workloads are unpredictable or vary greatly. An extreme example of this is the workload of an e-commerce site that can occur on Cyber Monday or after major advertising campaigns launches. With a solution on the territory, you would plan ahead and reserve spare capacity in order to balance the sharp jump in workload. With a cloud service, you can ask a cloud service provider to actively add more capacity in anticipation of a surge in workload. And once your activity has returned to normal levels and that spare capacity is no longer needed, you can lower your requirements with the supplier. A few things to consider when moving virtualized applications from infrastructure within the territory to a cloud service... Most importantly, you need to carefully assess the critical nature of your various applications and their needs for the available cloud service provider offerings. Not all applications are treated equally and should not. As a result, some will be well suited to the cloud, while others are well suited to managed hosting services. Your staff, customers, and partners today require 24/7 access to critical and critical applications. At the same time, you need to ensure the security and stability of these applications. Because downtime leads to lower productivity, loss of revenue, and possibly a permanent loss of customers and customers, you need a high availability and a reliable and predictable way to restore your VMs. This means that the cloud service provider must have the experience and automation solutions to meet the availability and recovery goals (RTOs). If you have data protection requirements or regulatory compliance requirements, you can choose a safe, managed cloud service or private cloud solution. The bottom line is that you want to view your workloads and determine which ones are best suited for cloud processing and that may have to stay in a more traditional virtualized environment. This post was originally published on Forbes and Sungard Accessibility Services. Image copyright © 2015, Amazon Web Services Inc. is often criticized as a platform that doesn't necessarily scale for the business. So at re:Invent, the second annual AWS conference, Amazon made a series of announcements aimed directly at dispelling these... Music should be fun, not disappointing. The ability to customize applications, combined with today's product cloud offerings, is more than much of a need for. Just like broadband Internet, however, it's only a matter of time before these overserved users turn to the commodity cloud... The rapid growth of cloud computing means that corporate IT can no longer be the cheapest provider of hosting applications, infrastructure, storage and other services. The sooner IT leaders come to terms with this, the better. Traditional IT sellers can make fun of as a simple bookseller, but Amazon Web Service is growing rapidly, not to mention inexpensively. If these vendors are not careful, AWS will soon compete with them in the corporate cloud... With large suppliers, such as HP, IBM and RackSpace are throwing their weight behind OpenStack, a project ready to be given out by a private cloud player. But discussions at the recent OpenStack summit show what the project does... At this year's Cloud Connect conference, the discussion moved from defining cloud computing to discussing enterprise cloud applications for businesses. That is, until two McKinsey consultants suggested that the cloud could spell... Traditional BI requires human input to decide what correlated factors to request. As predictive data analysis becomes more powerful, algorithms make a decision. It spells the end of the BI as CIO.com columnist Bernard Golden ... At a recent affiliate conference, VMware executives spoke about the firm's inability to own corporate load and the inability of partners to defeat the book merchant in the cloud computing game. Outbreaks show that VMware ... These days, there is no system that is stable, especially in the cloud. But most outages can be blamed on application architecture, not infrastructure. To combat this, do what Netflix does: Put your apps through a bell ringer that... Advocates of corporate computing are in for a rude awakening. Mobile, media, and marketing applications are ready to flock to the cloud, which is much better suited for handling load variability, delay and change management. How the end... If the analysts are right, and CMO ultimately takes control of the IT budget from the IT director, the cost of cloud computing will be much less predictable and much more complicated. Tell me what you say about Gartner Magic quadrants, but there's no doubt that IT organizations are using them to evaluate technology. The company's last two analysis of cloud services place Amazon Web Services head and shoulders... Will 2013 finally be the year that managers stop worrying about cloud security and start looking at their bills from cloud service providers? The columnist Bernard Golden thinks so. It has four other cloud computing predictions for... Developers love the cloud because it makes their work easier. Instead of combating this trend, and the risk of obsolescence, infrastructure and operations should embrace it. A recent Forrester Research report offers five tips for monitoring... On the first day of Amazon Web Services' first user conference, known as re: Invent, the focus was on how customers use services such as S3 and CloudFront. Meanwhile, the company introduced RedShift, which CIO.com columnist Bernard ... Cloud security has been discussed for years, and it is often called the biggest obstacle to the introduction of corporate clouds. Such conversations are erroneous, CIO.com Bernard Golden says, and ignore the bigger problems ... The latest outage of Amazon Web Services has left customers (and rival cloud service providers) blaming Amazon. Instead, CIO.com Bernard Golden says: you need to recognize that cloud computing is not immune to failure. Fortunately... As PC sales decline and smartphone and tablet sales grow, the world of computing is poised for a dramatic shift. While mobile users, in fact, calculate with their devices, application data and functionality actually reside in... Adopting cloud technology means that companies are increasingly signing UPRs with pay-as-you-go and server rentals. This means that traditional software and hardware vendors need to radically rethink their business models, columnist Bernard Golden ... Download more istockphoto. What is a cloud, exactly? First: Files don't literally shine into the sky. Cloud computing refers to a method - via the Internet - by which files are transferred from a computer (or smartphone or tablet) to physical servers. For example, Gmail messages are stored on Google servers (webmail is a form of cloud computing), so you can check your email from anywhere. Similarly, if you save or back-up files, such as music or photos, using a cloud service (see below for our samples), you can get them on almost any Internet-enabled device. If I hit my files on someone else's property, how can I know they're safe? Reputable companies store files on more than one server, in more than one center, so even if one fails, it's backed up. There may be failures in which the service may be temporarily slow or unavailable. (Last year, Amazon had two briefs that affected some of the cloud services it hosts, such as Foursquare.) But you can always save important files on your computer or external drive as another backup form. From a privacy standpoint, a good service uses safeguards such as password, SSL encryption to transfer files, and encrypted file storage, so personal information is unlikely to be hacked. The service should also assure you that the physical locations of servers are protected by both security staff and technologies such as fingerprint scanners, allowing only authorized access. What else can you do with cloud computing? It's not just about backing up. Many cloud computing services also have file-sharing capabilities. This means that you can save files for your account (such as a photo folder) and then give others access to view or edit them - great if, for example, you're trying to put all family vacation photos in one place. You can also share between devices (thus solving the problem of how to get photos from your mobile for example). OUR RECOMMENDATIONS EASY TO USE dropbox.com - As the name suggests, just drag and drop any files you want to keep in the service. To get them, sign up for an account from any Internet-enabled device or email a file-sharing link. One drawback: This is not the best option to back up all the files because they have to be dropped manually. The first 2GB is free; it's \$10 a month for or \$20 for 100GB. Full-FEATURED sugarsync.com - After setting up, it shares files among almost any group of Internet-enabled devices (computer, smartphone, tablet). The computer can be installed to automatically back up. You can also edit files offline. they sync the next time you connect. Its large mobile apps provide easy access to files on the go. The 5GB plan is free; Other plans have 30-day free trials and start at \$5 per month (or \$50 per year) for 30GB or up to \$80 per month (or \$800 per year) for 1TB. This content is created and supported by a third party and is imported to this page to help users provide their email addresses. 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