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Cloud computing examples and uses

Cloud computing has been credited with increasing competitiveness through cost reduction, greater flexibility, elasticity and optimal resource utilization. Here are a few situations where cloud computing is used to enhance the ability to achieve business goals.

- 1. Infrastructure-as-a-Service (IaaS) and Platform-as-a-Service (PaaS)** Infrastructure-as-a-Service (IaaS) delivers fundamental compute, network, and storage resources to consumers on-demand, over the internet, and on a pay-as-you-go basis. Using an existing infrastructure on a pay-per-use scheme seems to be an obvious choice for companies saving on the cost of investing to acquire, manage, and maintain an IT infrastructure. Platform-as-a-Service (PaaS) provides customers a complete platform—hardware, software, and infrastructure—for developing, running, and managing applications without the cost, complexity, and inflexibility of building and maintaining that platform on-premises. Organizations may turn to PaaS for the same reasons they look to IaaS, while also seeking to increase the speed of development on a ready-to-use platform to deploy applications.
- 2. Hybrid cloud and multicloud** Hybrid cloud is a computing environment that connects a company's on-premises private cloud services and third-party public cloud into a single, flexible infrastructure for running the organization's applications and workloads. This unique mix of public and private cloud resources provides an organization the luxury of selecting optimal cloud for each application or workload and moving workloads freely between the two clouds as circumstances change. Technical and business objectives are fulfilled more effectively and cost-efficiently than could be with public or private cloud alone. The video "Hybrid Cloud Explained" provides a more in-depth discussion of the computing environment: Multicloud takes things a step further and allows you to use two or more clouds from different cloud providers. This can be any mix of Infrastructure, Platform, or Software as a Service (IaaS, PaaS, or SaaS). With multicloud, you can decide which workload is best suited to which cloud based on your unique requirements, and you are also able to avoid vendor lock-in. To learn more about how these options compare, see "Distributed Cloud vs. Hybrid Cloud vs. Multicloud vs. Edge Computing."
- 3. Test and development** One of the best scenarios for the use of a cloud is a test and development environment. This entails securing a budget, and setting up your environment through physical assets, significant manpower, and time. Then comes the installation and configuration of your platform. All this can often extend the time it takes for a project to be completed and stretch your milestones. With cloud computing, there are now readily available environments tailored for your needs at your fingertips. This often combines, but is not limited to, automated provisioning of physical and virtualized resources.
- 4. Big data analytics** One of the aspects offered by leveraging cloud computing is the ability to use big data analytics to tap into vast quantities of both structured and unstructured data to harness the benefit of extracting business value. Retailers and suppliers are now extracting information derived from consumers' buying patterns to target their advertising and marketing campaigns to a particular segment of the population. Social networking platforms are now providing the basis for analytics on behavioral patterns that organizations are using to derive meaningful information.
- 5. Cloud storage** Cloud can offer you the possibility of storing your files and accessing, storing, and retrieving them from any web-enabled interface. The web services interfaces are usually simple. At any time and place, you have high availability, speed, scalability, and security for your environment. In this scenario, organizations are only paying for the amount of cloud storage they are actually consuming, and do so without the worries of overseeing the daily maintenance of the storage infrastructure. There is also the possibility to store the data either on- or off-premises depending on the regulatory compliance requirements. Data is stored in virtualized pools of storage hosted by a third party based on the customer specification requirements.
- 6. Disaster recovery** Yet another benefit derived from using cloud is the cost-effectiveness of a disaster recovery (DR) solution that provides for faster recovery from a mesh of different physical locations at a much lower cost than the traditional DR site with fixed assets, rigid procedures and a much higher cost.
- 7. Data backup** Backing up data has always been a complex and time-consuming operation. This included maintaining a set of tapes or drives, manually collecting them, and dispatching them to a backup facility with all the inherent problems that might happen in between the originating and the backup site. This way of ensuring a backup is performed is not immune to problems (such as running out of backup media), and there is also the time it takes to load the backup devices for a restore operation, which takes time and is prone to malfunctions and human errors. Cloud-based backup, while not being the panacea, is certainly a far cry from what it used to be. You can now automatically dispatch data to any location across the wire with the assurance that neither security, availability nor capacity are issues. While the list of the above uses of cloud computing is not exhaustive, it certainly gives an incentive to use the cloud when comparing to more traditional alternatives to increase IT infrastructure flexibility, as well as leverage on big data analytics and mobile computing. Learn more about cloud basics

By definition, cloud computing is a trending software and infrastructure model which allows users to access a pool of applications, servers, networks, and storage. It helps companies and users handle their infrastructure needs without worrying about maintenance or a hefty investment. Most of the time, companies choose the cloud infrastructure when they want data processing to be done on independent 3rd party servers, or a privately owned setup. Of course, there are a dozen cloud computing examples to learn from. In this post, you will come across a few of the most important cloud computing real-time examples and stories. We will discuss 10 examples of cloud computing, which have changed the way people handle and store their data.

- 1. Drop Box** When it comes to cloud computing real-life examples, Dropbox is a true leader. Established in the year 2008, Dropbox plays an important role in how data is stored. It comes with a sophisticated dashboard, which can be accessed via the desktop or web application. Dropbox is one of the very few cloud storage services to offer up to 1 TB of storage space for free. And, it has a separate interface for uploading and securing files. Dropbox is currently used by both individuals and companies. It is extremely famous amongst common users, who want to securely store their files and documents in the cloud without spending a lot of money.
- 2. Google** The talk about examples of companies using cloud computing will remain incomplete without Google. Gmail is one of Google's most important email service providers. It comes with unlimited access to Google Cloud architecture. Indeed, Gmail has changed the way we send and receive files/documents across the world. Today, Gmail is used by billions of people. Apart from day to day communication with dear ones, and online retail entities – Gmail comes as a business package too. There are many cloud computing implementation examples that revolve around the model used by Gmail. Gmail and Google Drive go hand-in-hand which means, emails and files can be stored automatically into the Drive from your Gmail account.
- 3. Dell's Secure Healthcare Cloud** Dell was one of the first few brands to venture into cloud computing in healthcare examples. Healthcare cloud computing practical examples deal with details on how administrators, physicians, and nurses can exchange information on the fly. When it comes to cloud computing types and examples around healthcare, there are many use cases to consider. For instance, doctors can share data across the cloud, and patients can access it remotely without any delay. This gets rid of the need to stand in long queues for reports.
- 4. Maropost For Marketing** Maropost is a great example of cloud computing services. The marketing cloud specializes around the end to end marketing. It offers a platform where clients will be able to take care of their target leads and contacts. Maropost comes with an automation marketing solution, with the help of the cloud. It makes sure that every email is directed towards the inbox. Maropost features an advanced deliverability model to ensure the above. Few other examples of cloud computing companies that use this technology for marketing would be Hubspot and the Adobe Marketing Cloud.
- 5. Hubspot** The role of marketing in any scenario is to make messages as personal as possible. The responses need to be more human, and not automated. This requirement has become simpler with the help of cloud computing. Service providers like hubspot leverage the features of cloud marketing to response with a personal touch. The cloud facility ensures that brands are in touch with customers at all times. Why? Cloud computing is often associated with a number of parameters like availability, security and seamless integration. Availability helps in ensuring that both clients and the host have access to data round the clock.
- 6. Sliderocket** When it comes to examples of cloud computing in education, SlideRocket tops the list. By default, the platform offered by SlideRocket helps students take care of their assignments and other projects on the fly. The completed tasks can be uploaded into the cloud, for their tutors to see and evaluate. In fact, both students and teachers can connect with one another via this cloud platform too.
- 7. Ratatype** Ratatype is also a great example to show cloud computing can be used with education. This is often considered as a tool professors and teachers can use. As suggested by its name, it focuses on the rate of typing. Ratatype helps students master their typing pattern. With time, it can improve the speed at which you type. The rate can be monitored directly by your teachers too. The monitoring happens via the cloud, and any one with a working network connection can utilize the perks of Ratatype.
- 8. Amazon** The talk about any cloud service will remain incomplete without Amazon. Amazon has a huge myriad of cloud services. In fact, some of these services are offered for free. Due to this robust nature, Amazon's AWS Cloud has become a choice in many regulated institutions like schools. Around the world, amazon cloud services are used as a part of K12 and Primary Education. The cloud service comes with a virtual desktop infrastructure (VDI) solution to favor the needs of educational institutions. As mentioned previously, the amazon cloud engine can also be used by teachers and students to interact and engage in remote classes. The US government was one of the first few adopters of cloud technology. As a result, many regulated service providers who follow HIPAA, FIPS, and FISMA became famous. These are security measures and compliance regulators for both on-premise and cloud services. The role of these bodies is to ensure that the cloud is not a victim of cyberattacks. After all, many confidential pieces of information are stored in the cloud but private and public organizations – including governments. An example of cloud computing would be the U.S. government. The current technology used by the US government makes use of the cloud along with its mobile, analytics, and social technologies.
- 10. Citizen Services** Finally, the cloud technology can be used for handling citizen services too. This is another example where the government makes use of the cloud. Various services like updating citizen details, acknowledging forms, and even verifying the current status of applications can be done with the help of the cloud. Often, services come with dashboards that can be accessed by the public and the host. Unlike traditional systems that rely on tokens and lengthy queues – cloud technology helps people access their official documents remotely. It saves plenty of time, effort, and even reduces cost.

Conclusion If you are looking for an extensive course in Cloud Computing, then the 5.5-month online Postgraduate Certificate Program In Cloud Computing offered by Jigsaw Academy can be of help. This program helps interested learners become complete Cloud professionals.

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