

Title: Major Cloud Computing services

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The Given Video describes the importance of cloud computing and major companies which are competing to build up better technologies for cloud computing. Major companies like Google, Azure, and are growing at a very fast pace based on the technology boom worldwide, and many companies moving to the cloud for faster growth and security. Moving to the cloud has its advantages and disadvantages, the cloud provides better security, scalability, virtual mechanism, Storage facility, etc. but the downsides are cloud is facing challenges as it grows like security from external and internal threats like data hacking and server breakdown. There are also issues with data protection that are not up to the mark that allows illegal usage of data from the public. In the Video the author speaks about the growth and competition of companies like Google which earned a revenue of 8.9 billion in the year 2019 and its market share is only 18% whereas Azure is leading the field withholding 52% and Microsoft with 21% of the business. Behind the success story, the company leadership asked to identify its core strengths and one thing became abundantly clear its infrastructure services gave them a huge advantage to compete with its competitors. Customers who use services receive them through a global network of server farms. The "Pay-as-you-go" model of charging is based on usage as well as subscriber-selected hardware, operating systems, software, and networking features that must be available, redundant, secure, and offer a range of service options. Subscribers have the option of paying for a single physical or virtual computer, a cluster of either, or both. [8] Subscribers can rely on Amazon for certain security-related services (such as the physical security of the data centers), but they are responsible for other security-related tasks (e.g. account management, vulnerability scanning, patching). operates from numerous locations around the world.

After two years of 's simple storage launch Microsoft Chief Architect "Ray Ozzie" has announced the "Windows Azure" and said, "It's their Transformation of Software and Transformation of Strategy". And in Feb 2010 windows became live. even though the initial reviews were mixed but the technology soon caught up with its competitors. The company name Windows Azure "Microsoft Azure" in 2014 to its rapid growth capabilities. Some of the services provided by Azure are users can launch general-purpose Microsoft Windows and Linux virtual machines as well as preconfigured machine images for well-known software programs using virtual machines and infrastructure as a service (IaaS). Many users use one of the numerous Linux distributions available on Azure, including Microsoft's own Linux-based Azure Sphere. Platform as a Service (PaaS) environments that allow developers to easily publish and manage websites include app services. Sites can be created using ASP.NET, PHP, Node.js, Java, or Python and deployed using FTP, Git, Mercurial, Team Foundation Server, or uploaded through the user portal with the help of Azure Web Sites. At the Meet Microsoft Azure conference in June 2012, this feature was revealed in preview form. Customers can build websites using PHP, ASP.NET, Node.js, or Python, or choose from several options.

According to the Author, the competition between two companies grow heated with growing technology, for example, has four categories of services under IaaS: Compute, Content Delivery and Storage, Database, and Networking. Whereas Azure has: Computing, Performance, Data management and databases, and Networking. Azure currently has more than 100 services based in more than 20 countries contently developing its technology to keep its customers at the forefront. made waves when it was selected by the CIA for a private cloud contract for its sensitive information. Relying on this asserted and showcased itself as a reliable and secure platform for everyone. With dominating all 17 government intelligence networks for years Microsoft and the other companies saw a hope to dethrone in 2017 with the launch of the new project "JEDI" "Joint Enterprise Defense Infrastructure", The pentagon awarded the contract to Microsoft in late OCT 2019 worth 10 Billion Dollars. Which caught up in controversy soon by

many companies saying “political Favoritism” towards Microsoft. For example, President Donald Trump’s direct intervention in the JEDI deals with Microsoft. And his clear disapproval towards Amazon.

In my opinion, I completely agree with the Author in saying the competition between large Tech Companies like Azure can be the push for better and fast development of cloud services. In the coming future, Cloud is going to play a major role in technological development, so the company that develops better technology and provides cheaper rates to its clients will flourish and dominate the market of cloud computing.