CLOUD COMPUTING REPERCUSSION ON SCANNER DEVELOPMENT

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Cloud computing is a service that helps to perform the tasks over the Internet. The user can access resources as they need them. Cloud Computing consists of hardware and software available on the Internet managed by the third party services. Cloud Computing plays a major role in various fields. It also takes a great repercussion on scanner development. New generation scanners have enriched features and functionality. Colour scanning with high resolutions, different file format support, storage options, support for various ports, touch screen panel, support for various protocols and many more like this. But, user has to pay a hefty sum of money. In this field Cloud computing helps to save their money and space.

KEYWORDS- Cloud, Scanner, Scan Snap.

I.INTRODUCTION

CLOUD COMPUTING is the practice of using a network of remote servers hosted on the Internet to store, manage, and process data, rather than a local server or a personal computer. It has many advantages in various filed such as big data, business, healthcare, banking, scanner and so on. Cloud computing and storage solutions provide users and enterprises with various capabilities to store and process their data in third-party data Centre that may be located far from the user–ranging in distance from across a city to across the world. Once that's done the scanner is connected to the computer All type of information is stored in cloud and the user can access it whenever the information is required. The cloud aims to cut costs, and helps the users focus on their core business instead of being impeded by IT obstacles.

There are three important services provided by cloud. They are:

- Infrastructure as a Service(Iaas):
  IaaS is just a raw material and has nothing inside it. It is a service that provides virtual machines and resources and has no software, operating system.
- Platform as a Service(PaaS):
  PaaS vendors offer a development environment to application developers.

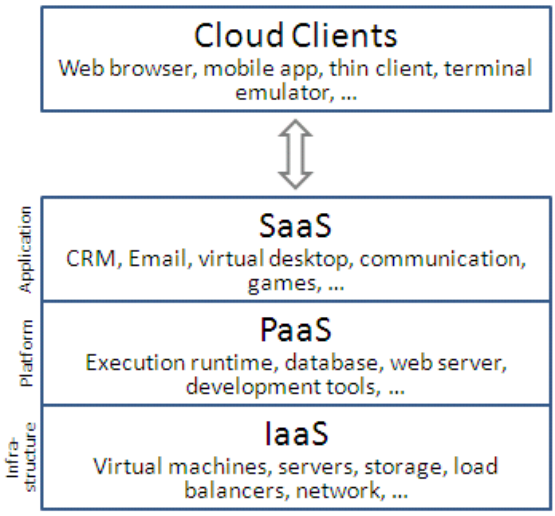
II.VIRTUALIZATION

The enabling technology of cloud computing is virtualization. Virtualization is software that manipulates hardware, cloud computing is a service that is made possible by the virtualization of network infrastructure. It provides the agility required to speed up IT operations, and reduces cost by increasing infrastructure utilization. Virtualization software separates a physical computing device into one or more "virtual" devices.

These devices can be easily used and managed to perform computing tasks. With operating system–level virtualization essentially creating a scalable system of multiple independent computing devices.

.III.SERVICE MODELS

- Software as a Service(SaaS):
  SaaS is a cloud service user's gain access to application software and databases.



IV.SCANNER

Scanner is a hardware input device for a computer. Scanners allow a user to take a printed picture, drawing, or document and convert it into a digital file, so that it can store, viewed, and edited on a computer. Scanner must be connected to the computer and other devices through wires. Cloud Computing plays a major role in scanner development. All the necessary documents are scanned and stored in cloud wirelessly. Thus, the cloud can be access whenever the data's are required.

V.SCANSNAP CLOUD

ScanSnap cloud sends scanned files directly to popular cloud services. ScanSnap scanners take the complication out of document imaging with one-button ease of use. It fits perfect for home and small business environments. The ScanSnap family of scanners bring duplex multi-sheet scanning to everyone, combining performance and affordability in a compact size. It scans

- Documents
- Receipts
- Photos
- Business cards

by pressing the scan button on the scanner that automatically separates the scanned content and sent to the variety of services that have chosen. Business cards scanned on the go or scan from home are right there when needed. The receipts tucked away in wallet or bills collected during business trips are applicable whenever required. They are stored in cloud and ready to deliver the important document however needed automatically.

VI.SETUP – SCANNER WITH COMPUTER

Mobile Phones and Computers are required only at the time of initial setup. Account is created in the ScanSnap cloud and wifi switch that is present at the back of the device is turned on. Once that's done the scanner is connected to the computer and open the lid. The setup tool will begin to identify the scanner and may prompt to install an update to the scanner. After the update of scanner, the setup tool checks whether the scanner is connected to wireless network. The last step of setup is to determine the destinations for the scan content. It is very simple and it should be noted that the computer should not turned off or scanner should not be disconnected during the time of setup.

VI.I.SCANSNAP FEATURES

- **Simple-**
  Turn documents into digital data by just pressing the Scan button. The document type is automatically detected and the scanned image is saved to the notebook in Ever note specified for the detected document type.
- **Speed-**
  Speedy scanning and Double-sided colour documents of A4 or Letter size can be scanned at approximately 25 sheets/minute.
- **Compact-**
  Small size saves desktop space and it is smaller than an A4 or Letter size paper, the ScanSnap does not require much desktop space.

VI.II.TYPES OF SCANSNAP DEVICES

Few ScanSnap devices are

- ScanSnap iX500
- ScanSnap S1300i
- ScanSnap iX100

third parties if necessary for purposes of law and order even without a warrant. That is permitted in their privacy policies, which users must agree to before they start using cloud services. According to the Cloud Security Alliance ,the top three threats in

the cloud are *Insecure Interfaces and API's*, *Data Loss & Leakage*, and *Hardware Failure*—which accounted for 29%, 25% and 10% of all cloud security outages.

VII.BENEFITS OVER CLOUD COMPUTING

- **Softwareupdates**- All maintenance and updates will be carried out by the service provider.
- **Flexibility**- Resources can be increased or reduced depending on workload
- **Collaboration**- Employees can sync up and work wherever they are.
- **Mobility**- work anywhere at any time
- **Scalable**- It has the ability to build and expand within minutes

VIII.CONCLUSION

Cloud Computing is environment friendly and quickly to build, manage. More industries are turning to cloud technology as an efficient way to improve quality services due to its capabilities to reduce overhead costs, downtime, and automate infrastructure deployment. Thus
Cloud Computing plays a major role in various filed.

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