On-Demand Resources Allocation for Cloud Storage Environment

Cloud computing is an advanced technology every person is used inner or outer in today's world. The advance and rapidly expanding technology of cloud computing are used computation and storage. The very minimum cost is used storage and computation as a service in it. Service model provided three essential services in it: Infrastructure as a Service (IaaS), Platform as a Service (PaaS) and Software as a Service(SaaS). The NIST definition, "Cloud computing is a model permissive ubiquitous, convenient, on-demand network approach to a shared pool of configurable computing property" (e.g. networks, servers, storage, applications, and services) that can be immediately provisioned and released with basic management effort or service provider interaction. Cloud storage is a crucial service of cloud computing. They involve data privacy, data protection, data availability, data location, and secure transmission which is a crucial release in cloud security. The involved in cloud challenge security are threats, data loss, degradation, outside malicious attack and multi-tenancy the cloud computing infrastructure, the traditional data storage model uses a file system under the control of the operating system. Many traditional systems allow all users to access the same piece of data simultaneously. However, it increases the security threats to the sensitive data of the corporation. So, in order to provide more security to sensitive data Virtual Private Cloud (VPC) can be implemented where only authenticated users can access the data using the AWS tool along with the benefits of cloud storage. Security can be provided through multifactor authentication and by connecting VPC endpoint to S3 bucket for the authorized users to access and modify the file safely and securely.