

① IAM is a term that means access or identity management. ② A federated cloud computation means various public or private cloud environments that help provide different services. When the two terms are combined, IAM in federated cloud application is where the user can avail of the cloud services. The user is also allowed to manage cloud services. ③ In this case, IAM is a complete package for techniques, standards, and policies that helps control digital access. In this new era, we have different services worldwide that are available in different geographical locations. The skills that are used in this service are spread all over. For the skills and services to become that effective for someone, it's essential to draw in IAM federated cloud application. ④ IAM is used for both authorization and authentication. Authorization is the process where the server finds out if the user can use or perform any action. Authentication on the hand allows the system to find a valid user. IAM is essential in that it can enable a user to gain access or deny the user access. It performs all this function through some of the stated rights by the system. The primary aim of IAM is to grant the user the right to access a system, but it must be a valid user. IAM can be used as a growing organization or enterprise that intends to offer a wide range of services worldwide (Marks & Lozano, 2010). The user can access the services from any location using their devices. The organizations can use their own IAM services or use the services of a third party. Necessarily, IAM services are necessary for any organization that requires to connect with multiple people across the world. It helps offer better services as the systems can validate the valid users. An excellent

② Microsoft Azure uses azure active directory B2C

IBM cloud uses cloud IAM

Amazon web services use Amazon IAM

Google's computer cloud uses cloud identity.

The cloud federation plays a role in ensuring that the users manage and access resources by the use of a single sign or through the use of multiple accounts. Some of the services offered are free, whereas some of the services are premium. In this case, the case is charged according to their usage. The companies provide a wide range of products depending on the user's usage. ③ The usage may be based on backup and restore, archiving, and cloud migration. The industry-based solutions can be the type of education, entertainment, automotive, or marketing. The organization's solution can be the size of the organization or the public sector. ④ Advantages of IAM

The benefits of using this service include:

Controlling the activities of the users by assigning privileges.

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② It helps keep track of the user activities through capturing and monitoring logs.

It helps increase productivity, where it reduces the time wasted for going to different places to seek services.

② Disadvantages of IAM:

It's difficult to complacent with the new standards

Satisfied with the latest technology

② Security is a significant problem as the employees and customers can use their devices in the organizational premises.

It's costly to update the IAM system

References:

Azraq, A., Aziz, H. A., Siddiqui, U., & Redbooks, I. (2017). Essentials of Application Development on IBM Cloud. IBM Redbooks.

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