



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING(IoT and
Cybersecurity Including BCT)**

COURSE NAME : cloud service management

IV YEAR / VII SEMESTER

Unit II-

Topic : Cloud Policy



Cloud policies are the guidelines under which companies operate in the cloud.

Often implemented in order to ensure the integrity and privacy of company-owned information, cloud policies can also be used for financial management, cost optimization, performance management, and network security.

Cloud computing offers companies a number of advantages including low costs, high performance, and the quick delivery of services.

However, without the implementation and enforcement of cloud policies, companies can be exposed to the risks of data loss, spiraling costs, and underperforming assets.

The cloud is not inherently insecure

With regard to the risk of data loss, the cloud is not inherently insecure.

Cloud service providers build their platforms focusing more on security and governance than companies who build on-premises IT infrastructures that are protected by a firewall.

It is the way the cloud is used that often creates an issue, with developers sometimes failing to take the appropriate precautions when deploying resources.



Cloud policies for financial management

Cloud policies for financial management not only help control operational budgets and monitor cost trends, but can be useful in identifying sudden increases in cloud spend that could be indicators of a bigger security problem—for example hackers obtaining login credentials and launching Virtual Machines on the company's cloud account that are then used for cryptocurrency mining.

Cost optimization cloud policies

In recent years there has been a growth in software solutions for optimizing cloud costs. These are available from cloud service providers or—if your business operates in a multi-cloud or hybrid cloud environment—third party software solutions are available from multiple vendors. These solutions often have the capability to apply cost optimization cloud policies to assets across multiple platforms.

Cloud policies for performance management

Cloud policies for performance management enable you to specify performance thresholds for Virtual Machines and storage volumes so you can monitor for underutilized and overutilized assets. Underutilized Virtual Machines and storage volumes should be downgraded for cost efficiency, while overutilized assets should be upgraded to avoid performance headaches.



Network security cloud policies

- Maintaining a secure perimeter to allow only legitimate traffic onto your network is critical in the cloud and the leading cloud service providers acknowledge this by supplying tools to determine which users or group identities should have access to hosted services and applications.
- Amazon and Microsoft both call their tools “Security Groups”, Google offers the “Identity-Aware Service”.

Automating the enforcement of cloud policies

- Prior to creating cloud policies, it is essential to have total visibility over your cloud environment in order to fully understand what assets your company has deployed in the cloud and how they are being used.
- Cloud Health gives you the total visibility required and tools to analyze costs, usage, performance, and security to enable you to make informed choices when applying cloud policies.