Cloud Computing Best Practices

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Introduction:

The cloud computing systems comes with risks and by architecting the applications properly will mitigate them. This paper discusses about the best practices that need to be followed to build and deploy a robust application in cloud.

Data Security:

In a cloud computing environment, the consumer has to move the data between on-premise and cloud storage. The security standards must be created and enforced while transferring the data. Encrypting and storing the data and having a logical partition for data stores in a multi-tenant environment will secure the data even further. Also, the consumer must carefully decide on what data to store on cloud and what not.

Compliance Framework:

While migrating to cloud, the main thing that a consumer must keep in mind is the data and process compliance. Each organization needs to have a framework to make sure the compliance is obeyed. The consumer must make sure the cloud provider abides with the data and process compliance laws enacted for each industry, for instance HIPAA compliance. Moreover, the contract must be reviewed carefully to make sure the data in cloud is stored within the complied geographical location.

Avoid mistakes by learning from peers:

Most of the times, it will be very costly to commit a mistake on our own and correct its course. However, the cloud consumer can learn from their peers who had implemented the cloud model and document the lessons they learnt, so that it can be followed in the consumer's firm to avoid the mistakes.

Backup and Disaster recovery:

Formulate a way to take periodic backup of the data stored in the cloud. Install and Manage a disaster recovery strategy to make sure the continuity of business is not stopped when the application is in cloud.

Budgeting and costs:

The cloud consumer must have achievable goals, budgeting for strategic cloud migration, timeline to complete the migration and plans for execution and maintenance of the applications which includes proper configuration management and release plans.

Conclusion:

By following best practices, the cloud consumer can architect and build their application in a secure, compliant and cost-effective way.

References:

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