Modernise to Maximise
UNLEASH THE CLOUD'S POTENTIAL

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Overview

Digital transformation is one of the crucial steps many organisations take to keep up with the evolving technology. It includes modernization or advancement of infrastructure, application, platform, workplace, database, IT resources, and cloud. These transformations collectively help businesses reach their maximum potential and increase their bandwidth. It also keeps them moving so that their technology and IT infrastructure don't become obsolete.

Among such transformations, cloud computing and modernization is one such thing that has helped many businesses in numerous ways, such as data storage, improved culture, security enhancement, streamlined management, and whatnot.

The research found that of 100% modernised organisational approaches, cloud extensions to existing solutions **cover 24%**, which exceeds outsourcing to IT service companies, building internal advancement from scratch, and SaaS replacement.

This data itself is a clear indicator of the prevalence of cloud extension or modernization. In this article, we'll walk you through the concept of cloud modernization, its need for businesses, how to achieve cloud modernization, along with application modernization.

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What is
Cloud Modernization?

Cloud modernization is the approach of transforming or sometimes shifting your IT infrastructure, application, and workplace completely in cloud mode. It also means upgrading your legacy applications and their features to an advanced level with the help of cloud computing.

The components in cloud modernization involve breaking down the components of their legacy applications into small bits and rebuilding each in the cloud environment so that the cloud infrastructure can fully imbibe into the business. This process may sound complicated, but there are some options available for the companies to choose the best for their company out of the entire lot.

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Why is it necessary?

Recently, cloud modernization and migration have become more prominent for many companies. It is seen that the growth of migration and modernization could reach worth **$ 24.8 billion** by 2025. If we talk specifically about Europe, then the net worth of cloud computing was **63 billion** euros in 2021, which is about to shoot up to 560 billion in 2023. Cloud computing has undoubtedly become the next most significant necessity of many organisations.

Some of the main reasons to have a cloud in the business are:-

Cost Control

Cloud providers help their stakeholders or businesses reduce costs by maintaining and replacing hardware with cost-effective methods. According to industry analysis, 30% of cloud is wasted and costs millions of dollars. Therefore, cloud providers can help these companies cover the waste and use cloud technology judiciously.
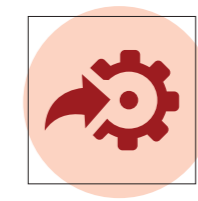
Scalability and Flexibility

Cloud infrastructure outgrows your scalability as well as flexibility. Companies get to replace their legacy applications and features with advanced cloud computing, where things like IT resources, data storage, etc., become much more stretched. Moreover, the management process also becomes streamlined, which ensures maximum flexibility that cannot be achieved otherwise with obsolete features.

Security

It is one of the major concerns for many companies as they grow. Here, cloud infrastructure plays an imperative role and establishes advanced protection with the help of certain tools. Therefore, all your confidential information and crucial data remain intact in the cloud.

Integrations

This could be the concerning issue as to why some companies feel hesitant to switch to modernization. However, some providers even ensure smooth transition and integration of cloud infrastructure into their businesses, leaving the companies with no doubt.
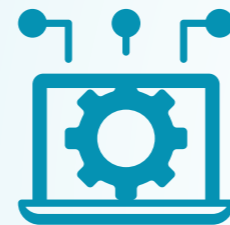
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Application Modernization

Application Modernization is shifting legacy infrastructure to an advanced environment with different patterns, approaches, and features. The three main approaches to application modernization are:

Serverless Architectures

Serverless architecture means underlying cloud services that entirely eliminate the semblance of server management. It can perform up-and-down scaling of workloads and their demands. It means you have to pay for only those resources you use. In the serverless architecture, apps automatically partially shut down and save money. It gives plenty of room to the developers to work on their applications rather than management and operation.

Re-platforming

It is the movement of the application almost as it is, with slight changes in the components. It doesn't require significant changes in architecture or code but some complimentary updates that help legacy applications take advantage of cloud infrastructure.

Refactoring/ Digital-decoupling

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How can we accomplish cloud modernization?

There are a few approaches by which you can bring cloud modernization into your business. These are:

1

Analyze performance: This is the post-modernization phase in which companies analyze the before and after of cloud infrastructure. Understand if there are issues with the database, server, application, or network. Monitor every change in order to improvise the end-user experience.

2

Decide on the correct approach: Once you're done with evaluation and analysis, the next big thing is to decide on the most suitable method. Consider different approaches and additional features, and see what's best for you.

3

Analyze the resources present: Businesses should also have prior knowledge of their legacy application and how integration would look like. You should have a complete understanding of the new and old applications.

4

Evaluate and access the critical applications: This is the initial stage of integrating cloud infrastructure. Businesses should test the cloud's assessment, services, capabilities, and limitations (also known as testing) before applying it. You can also work on cutting down or optimising costs.

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Summing Up

Cloud and application modernization is a necessary revolution that has flipped the operations of many businesses. Earlier, entrepreneurs used to go with the legacy infrastructure that came along the way of growth. But with the help of modernization and migration, many companies have outperformed and satisfied end-users' needs. It not only helped businesses reach their maximum potential but also improved costs.

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