Minfy Tech Helps Government IT Department Modernize with AWS Cloud

The Government of Manipur's Department of IT chose to migrate critical services to the AWS Cloud. Minfy Tech helps customers create cost-effective cloud operation models. Minfy Tech helped the Department of IT achieve scalable compute and storage in the cloud using Amazon EC2 and Amazon VPC.

Using Cloud to Change How IT Is Done

Minfy Tech has built its business on helping clients find their way to the cloud. Since the company's founding, that journey has been empowered through AWS. "At Minfy Tech, we help organizations move forward in the digital world. As an AWS partner, we show our customers how cloud technology can change the way they use IT," says Sayantan Chouduri, general manager of sales for Minfy Tech.

Headquartered in Hyderabad, India, Minfy Tech is an IT services provider and an Advanced Consulting Partner in the AWS Partner Network (APN). Minfy Tech also holds qualification as an AWS Public Sector Partner. The company helps customers implement cloud solutions and plan full-scale cloud migrations. That expertise is often required by state and local governments faced with the rising costs of internally supporting IT functions. One such client, the Department of Information Technology (DIT), Government of Manipur, realized maintaining its on-premises data center was becoming too expensive and sought a solution.

Confronting a Costly and Inefficient On-Premises Data Center

In addition to operational costs, the DIT realized maintaining its on-premises data center was growing too expensive in other ways. Continuing to run the on-premises data center hindered the DIT's agility and innovation. The old hardware in the center was ill-suited to meet the demands of new apps, services, and websites that the DIT needed to support. Much of the center's hardware had reached its projected end of useful life, which meant app deployments and website upgrades took too long to implement due to hardware incompatibility. Government IT organizations often face crossroads like this, which is where organizations like Minfy Tech can step in to help plan migrations from on-premises data centers to the cloud.

Minfy Tech realized that the DIT faced challenges familiar to any company considering a cloud migration. To maintain an on-site data center, it would have to purchase new hardware. Plus, there would be all the additional costs associated with maintenance, storage, heating, cooling, and space to house the equipment. With an on-premises data center, the DIT would still lack the agility required to quickly address urgent needs or web traffic spikes. Additionally, since the data center's inception, the company had used multiple vendors, each with its own contracts and overhead costs to maintain various center services. This lack of consolidation proved inefficient and costly.

Another important consideration for the DIT was India's National e-Governance Plan (NeGP). NeGP 's mission is to make government services more widely available to citizens using

16 critical apps and websites migrated to cloud with minimal disruption.

Company:	Minfy Technologies Private Limited
Industry:	Information Technology and Services
Country:	India
Employees:	180
Website:	www.minfytech.com/

About Minfy Technologies

Headquartered in Hyderabad, India, Minfy Technologies helps customers shift the costlier elements of traditional on-site service to more cost-effective cloud models of operation. The company provides cloud consulting, audit, and advisory services.

Benefits

- 16 critical apps and websites migrated to cloud with minimal disruption
- Significant reduction in operating expenses
- Virtual data center offers the same security yet more agility than the on-site data center
- IT team can concentrate on supporting other essential government services

AWS Services Used

- Amazon Elastic Compute Cloud (Amazon EC2)
- Amazon Virtual Private Cloud (Amazon VPC)
- Amazon Elastic Block Store (Amazon EBS)
- Amazon CloudWatch

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> Sayantan Chouduri, General Manager of Sales, Minfy Tech

common electronic outlets and to help ensure the efficiency, transparency, and reliability of those services. A shift to the cloud would have to ensure minimal service disruption between government-to-government (G2G), government-to-citizen (G2C), and government-to-business (G2B) apps and sites under the DIT’s management. Again, given Minfy Tech’s experience working with the public sector, the company understood the urgency of a minimally disruptive process.

The choice became whether to take on the burden of expensive data center upgrades or to instead explore cloud migration. Knowing its current data center operation was untenable, the DIT made plans to migrate critical applications and websites to the cloud.

Executing a Seamless Cloud Migration

In India’s public sector, government groups must choose vendors for large projects via an open- tender process. Open tenders describe the scope of work, the requirements bidders must meet, and the criteria used to evaluate vendors. The DIT solicited bids to migrate 16 critical websites and applications from on-premises hosting to the cloud. The DIT graded each vendor based on stringent technical and financial parameters applied equally to all bidders.

After competing against 12 other bidders, Minfy Tech was chosen to execute the migration. “During our due-diligence process, Minfy Tech and AWS helped us fully understand all the advantages that cloud technology could provide to us,” says Robert Sharma, deputy director of the DIT, Government of Manipur.

After studying DIT’s existing IT infrastructure and associated costs, Minfy Tech recommended a detailed migration plan for a seamless transition to the cloud with as little service disruption as possible. For scalable compute and storage, Minfy Tech deployed Amazon Virtual Private Cloud (Amazon VPC) and Amazon Elastic Compute Cloud (Amazon EC2). This combination offered security that was similar to the on-premises data center but with much greater scalability. Amazon Elastic Block Store (Amazon EBS) delivered persistent block storage and replication across availability zones, offering the redundancy required to protect the network against failures. Amazon CloudWatch is used to monitor and manage applications and systemwide performance.

Leading the Way for Other State Governments

Manipur is the first state government in India to transition its IT services to the cloud. The DIT’s capital and operating expenses have been drastically reduced when compared to the on-premises data center costs. The DIT has experienced other benefits as well. “Provisioning servers in the cloud is far easier than deploying a server in an on-premises data center. This migration has saved us time as well as costs,” says Sharma.

The early success realized by the project has already prompted calls from other state IT organizations interested in charting a similar path. The DIT team understands that interest given what the migration has meant to their internal operations. Sharma notes, “Our burden of running and managing a data center has been taken over by Minfy Tech and AWS. Now our department has time to concentrate on other essential government services and innovations.”