

### About NKG Infrastructure Limited:

NKG Infrastructure Limited, is a diversified infrastructure development Company with an annual turnover of Rs.1,700 crores. Headquartered at New Delhi. NKG has offices spread across 17 states all over the country. NKG technical expertise and execution capabilities have been well-recognized by several government bodies, global institutions and leading infrastructure development authorities of India. Provides last mile connectivity, lighting, basic amenities, power and modern lifestyle solutions to the people in the cities we are present in. NKG forte lies in construction of roads, bridges, power sub- stations, buildings and water recycle & treatment plants among others.

### Challenge:

NKG Business Application including a business-critical SAP environment—was running on premise Hardware Infra. NKG sought to migrate most of the systems running on premise—including SAP—to a public cloud environment.

One of the main challenges were provisioning of the instant data center and latency issues which leads to performance issues for end users

Sizing and costing of server on premise were running unnecessarily which impacted their overall economical growth

Also, on premise application taking too much time to respond

### Why Amazon Web Services?

NKG engaged Sapphire to migrate its SAP environment to the AWS Cloud. The core AWS services supporting NKG SAP environment include [Amazon Elastic Compute Cloud](#) (Amazon EC2) instances, which provide the compute power to run the environment's applications.

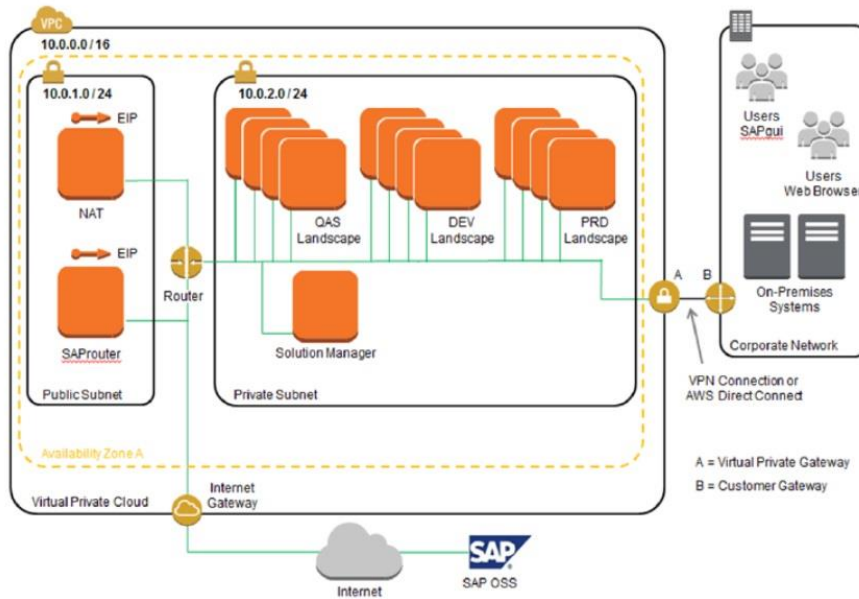
For storing all SAP data, NKG uses [Amazon Simple Storage Service](#) (Amazon S3) and [Amazon Elastic Block Store](#) (Amazon EBS) for storage. The feature of EC2 auto recovery helps for low cost hardware high availability of the EC2 instances. AMI snapshots of EC2 instances will help for low-cost disaster recovery to another availability zone.

Sapphire recommended the customer to go for SUSE Linux Enterprise server and provided the help during deployment of HANA with smooth backup and restoration process and high data protection.

Implemented High security with optimum performance level for end users.



To overcome above mentioned challenge Sapphire and AWS Team suggested the following architecture diagram



## Benefits:

NKG today no longer faces the capex costs of refreshing a private cloud infrastructure. The company has also enhanced the speed of its business applications, including SAP. Sapphire helped for cost optimization based on experience for running SAP application on Cloud.

With SAP environment running on AWS, their application is more secured for end level users with high Performance.

Provisioning times for SAP instances have also dropped from weeks to days since the migration to AWS.