

## **MICROSOFT AZURE OVERVIEW**

Azure is a complete solution for practising IAAS, PAAS and SAAS. Any completely developed organization or a fresh new start up would not like to invest much in infrastructure, nor would they be glad to do with softwares. In order to face such uncertainty and reduce such basic level complexity, Microsoft Azure gives a way smarter solution to any Enterprise level organization to handle it with already defined platform “Azure”.

There are many services which MS Azure provides however there are few which I would like to bring to notice.

1. Resource Group : This represents set of resources used. Resources could be anything from virtual machines to network or even security etc. These are provided with adequate permissions or read, write and ownership.
2. Tagging: This refers to tags which can help admin to calculate resources used and may be costing incurred by them. Very useful for admin for super user to act as per the usage.
3. Storage : Azure gives a versatile platform for various types of storage which includes databases from SQL to No-SQL. This helps the user\customer to use it in as PaaS and serve the purpose without any installation and any compliance. We just need to take care of usage.
4. Load Balancer : An amazing technique to balance the upcoming traffic within the resources available. It does not need a human intervention to calculate and take a decision with a program configured.
5. Traffic Controller : This is another brilliant feature which not just decided on traffic but also looks after the geographic locations and ensure it to be stable in case of any downtime within any region.
6. Security : As a PaaS, this comes hand in hand which provides service to the user to use all secure network with all security features enabled. Here user does not need to take care of any policies. All standard compliance will be provided by MSDN Azure.
7. Virtual Machines : This is one of the basic but important feature where without having any physical devices and just enabling virtual machines to scale up the work and productivity.
8. Containerization : Gives a provision in order to run multiple application on the same server without incurring much cost. In today's world where there is lot of pressure of reducing cost. It becomes mandatory to have such mechanism enabled. One server, many lightweight CPU and all application running dedicatedly on them.
9. Repository : Azure a complete cloud solution gives a perfect blend with repositories available for users to use as per need and can be shared across the globe.
10. Express Route : Connects your on-premise setup to Azure directly for highest level security via private IPs and network.
11. Redis Cache : Helps in cache management to improve in latency period of response.

12. Backup : Robust and stable backup service across geographical locations. Having the highest availability across all geographic locations. It becomes the sure shot solution to have reliable service from Azure.

These are just a few out of many exciting feature from Azure which can be used and be no less than a fortune to have such a system available. However there are other competitors in market but microsoft being known for its own User Interface, it becomes an excellent choice for many customers round the globe.