

## **SESSION # 12**

### **Implementing Traffic Management and Monitoring Strategies for Web Services**

#### **Session Overview**

- Azure load balancer and its components
- Azure Application Gateway and Traffic

Manager

- Azure Application Insights and Log Analytics
- Application Insights
- Azure Event Hubs and Stream Analytics

#### **Azure Load Balancer:**

Load balancing of inbound Internet traffic to their VMs, which is called as a public load balancer. Load balancing refers to evenly distributing load (incoming network traffic) across a group of backend resources or servers. Developers can go to the frontend of a load balancer.

#### **Azure Application Gateway & Traffic Manager:**

Azure Application Gateway is a web traffic load balancer that enables you to manage traffic to your web applications. URL-based routing, Multiple-site hosting, Redirection, Session affinity.

Azure Traffic Manager is a DNS-based traffic load balancer. This service allows you to distribute traffic to your public facing applications across the global Azure regions.

#### **Azure Application Insights and Log Analytics:**

Works on applications installed on the system or in the cloud. Azure Application Insights is a perfect tool to save the log data generated by these applications and also offers multiple features to apply Log Analytics on the saved data.

#### **Application Insights:**

Application Insights is an Azure service. Application Insights is an extension of Azure Monitor and provides Application Performance Monitoring (also known as “APM”) features.

### **Azure Event Hubs and Stream Analytics:**

Event Hubs output from Azure Stream Analytics. The Azure Event Hubs service is a highly scalable publish-subscribe event ingestor. It can collect millions of events per second. One use of an event hub as output is when the output of a Stream Analytics job becomes the input of another streaming job.