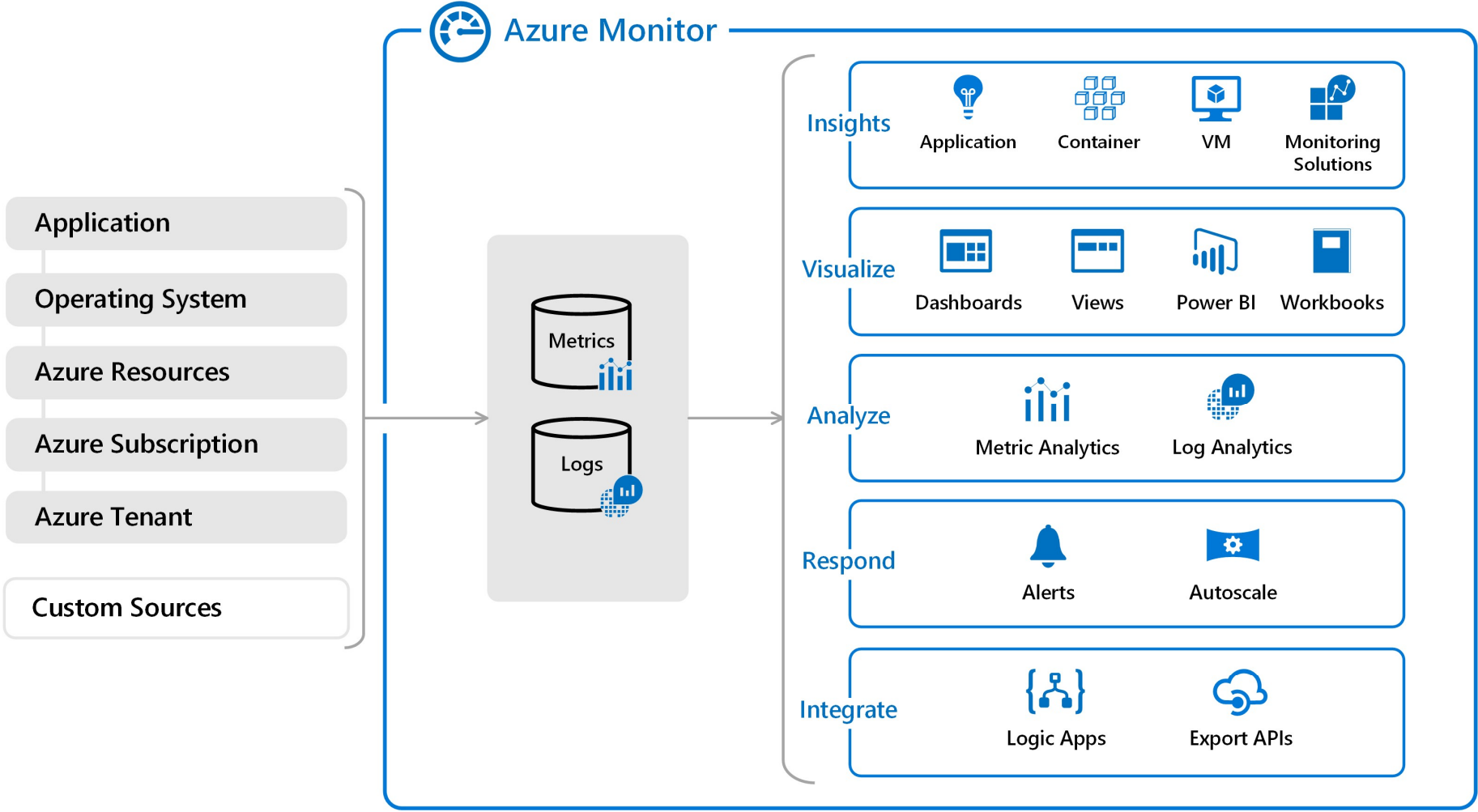


Azure Monitor and App Insights

Azure Monitor

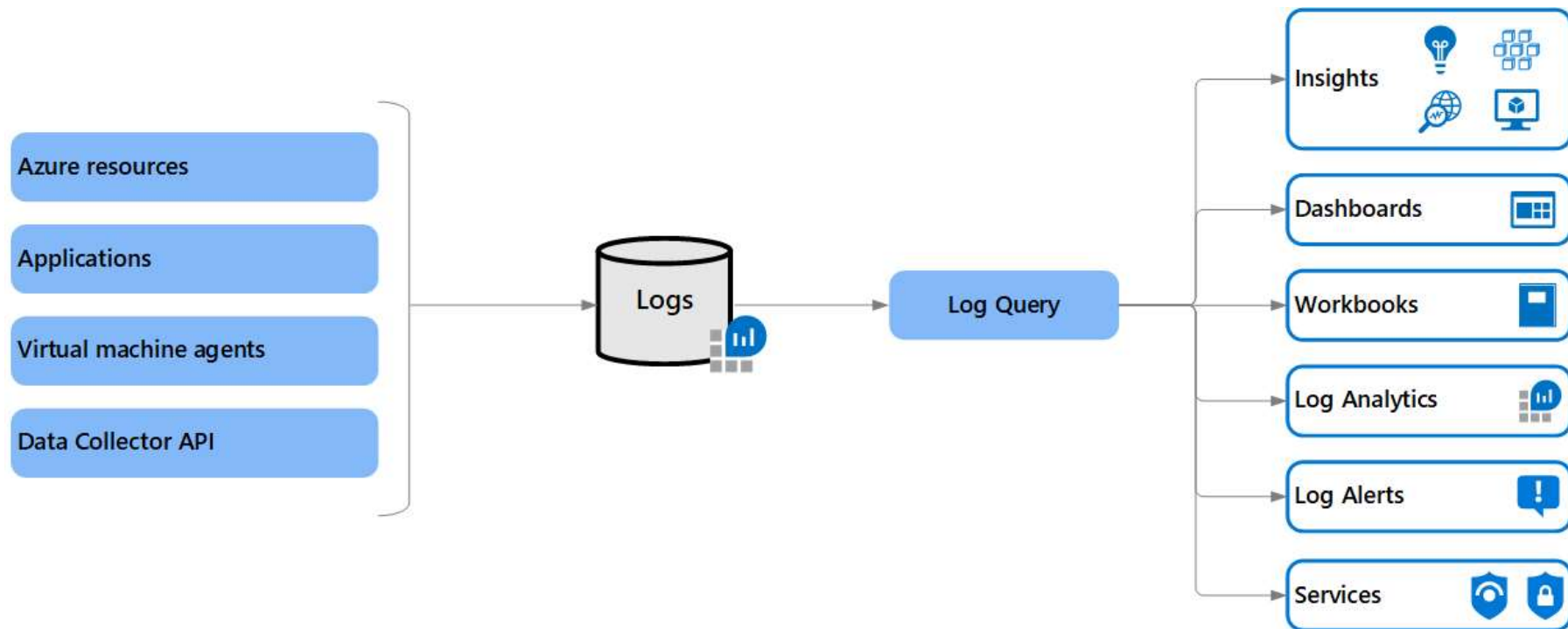
- Helps maximize the availability and performance of applications and services
- Solution for
 - collecting,
 - analyzing, and
 - acting
- Helps you understand how your applications are performing

Azure Monitor



Logs

- Feature of Azure Monitor
- Collects and organizes log and performance data



Log queries

- Data is retrieved using a log query
- Log queries are written in Kusto Query Language (KQL)

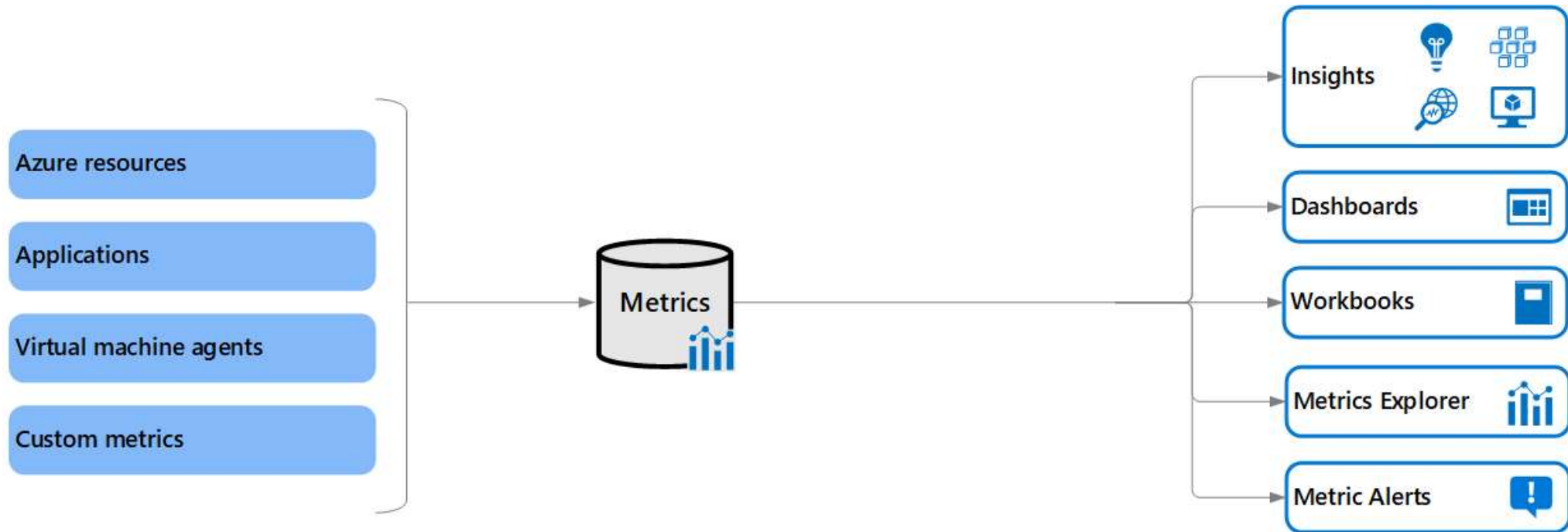
The screenshot displays the Azure Monitor Logs interface. On the left, a sidebar contains navigation links: Overview, Activity log, Alerts, Metrics, Logs (selected), and Service Health. The main area is titled 'Monitor - Logs' and includes a search bar with the placeholder 'Search (Ctrl+/)'. Below the search bar, there are tabs for 'Schema', 'Filter (preview)', and 'Explore'. A 'New Query 1*' button is visible. The 'Run' button is prominent, and a 'Time range: Last 24 hours' selector is present. The query editor shows the following KQL code:

```
// Availability rate
// Calculate the availability rate of each connected computer
Heartbeat
// bin_at is used to set the time grain to 1 hour, starting exactly 24 hours ago
| summarize heartbeatPerHour = count() by bin_at(TimeGenerated, 1h, ago(24h)), Computer
| extend availablePerHour = iff(heartbeatPerHour > 0, true, false)
| summarize totalAvailableHours = countif(availablePerHour == true) by Computer
| extend availabilityRate = totalAvailableHours*100.0/24
```

Below the query editor, there is a 'Filter by name or type...' search bar and a 'Collapse all' button. The 'Active' section shows a dropdown menu and a star icon.

Azure Monitor Metrics

- Metrics are numerical values
- Collected at regular intervals
- Describe some aspect of a system at a particular time



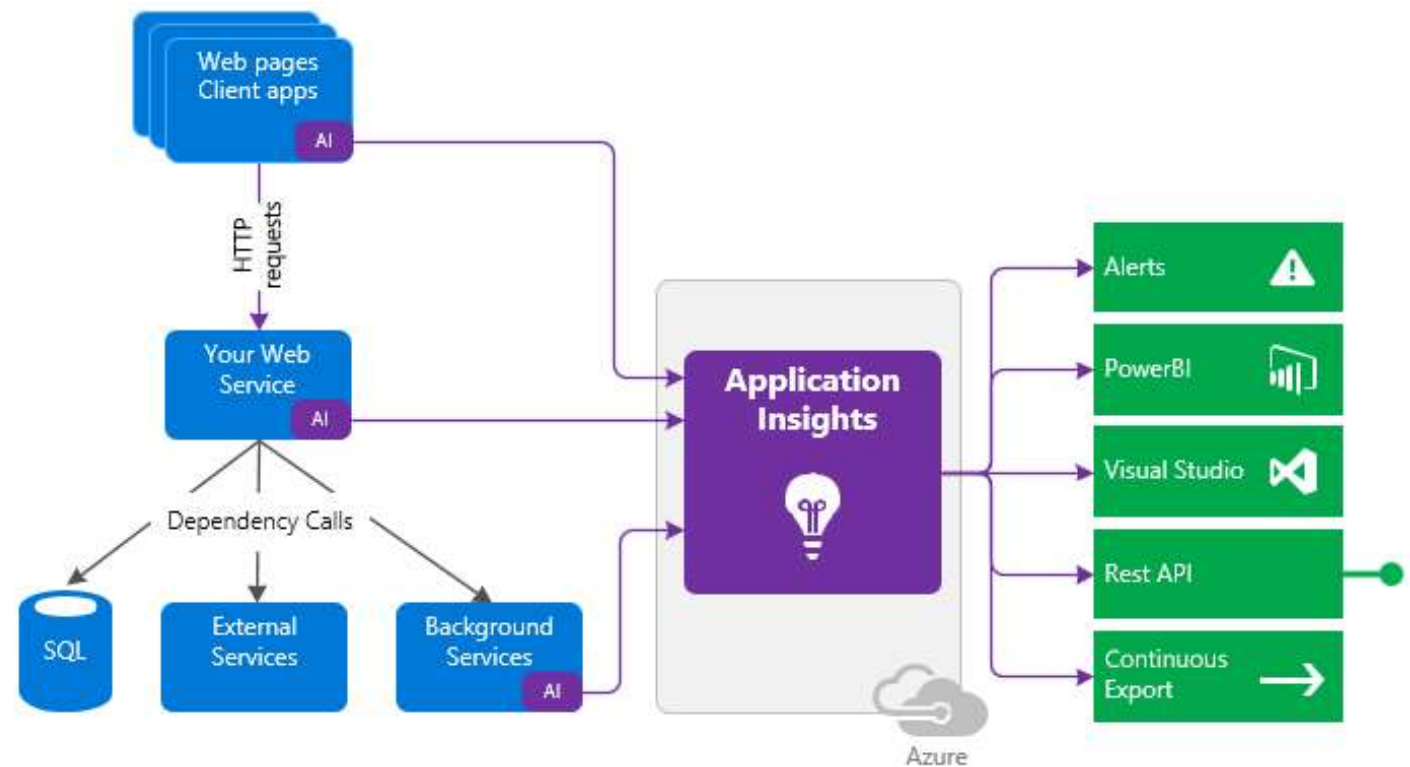
App Insights

App Insights

- A feature of Azure Monitor for developers and DevOps professionals.
- Use it to monitor your live applications.
- It will automatically detect performance anomalies
- Includes powerful analytics tools to help you diagnose issues

How does Application Insights work?

- You install a SDK in your application
- It monitors app and directs the telemetry data to an Azure Application Insights Resource



Hands-On

- Application Setup for Application Insights
- Metrics and Performance
- Other features
- Availability Tests
- Tracking Users
- Troubleshooting various issues

Thanks