SYNERGETICS

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Azure Monitoring & Capacity Metric Alerts

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Microsoft Partner | Silver Learning | Gold Cloud Platform

Microsoft Cloud Solution Provider

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Agenda

- Azure Resource Management with TAGS
- Azure Resource Costing
- Application Insights
- Metrics at:
  - Resource Level
  - Resource group level
  - Subscription level

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Resource Management with TAGS

- Tags are additional meta-data / labels applied to resources.
- Allows logically organise resources.
- Limitations:
  - Each resource can have up to 15 TAGS
  - Tag name could be max 512 characters long
    - Few resources may support lesser characters than 512, So keep them small!
  - Not supported for Classic Resources
  - Beware of special characters

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Azure Resource Costing

- Azure Cost Management : Service to manage your spending's
  - Reporting
  - Data Enrichment
  - Budgets
  - Alerts
  - Recommendations
- Cost management service is free for Azure resources.
- Available for AWS at 1% of managed spend *

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Application Monitoring

- Monitor Applications
- Monitor Containers
- Monitor resource groups
- Monitor Networks
- Monitor Virtual Machines
- Monitoring other resources

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Application Insights

- Application Insights is an extensible Application Performance Management (APM) service for web developers on multiple platforms.
- Monitor live web applications.
- Detect performance anomalies.
- Helps in continuous monitoring.

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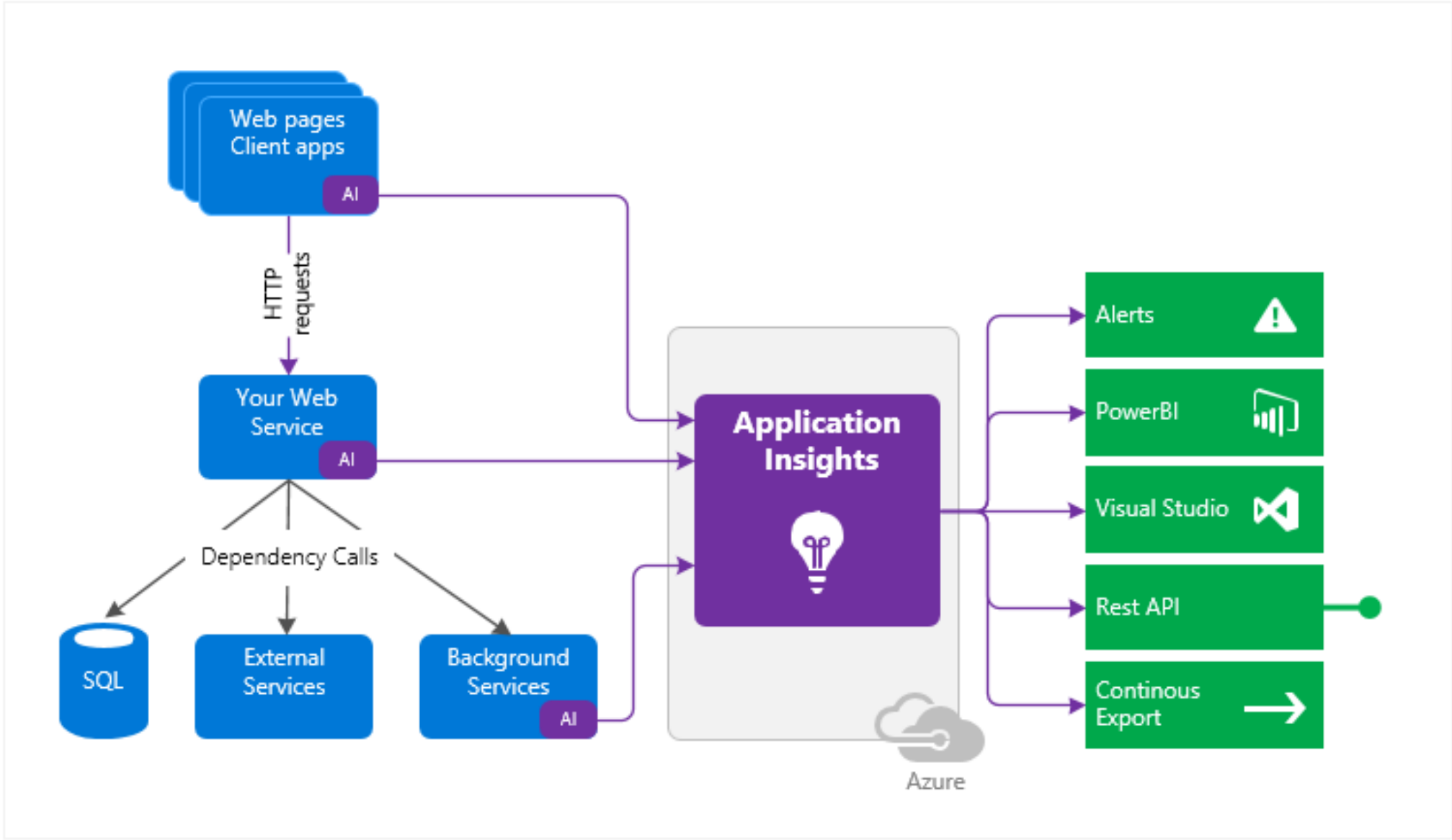
Application Insights



Application Insights : Data Collection

- Request rates, response times and failure rates
- Dependency rates, response times & failure rates
- Exceptions
- Page views and load performance
- User and Session counts
- Custom events and metrics

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Application insights : telemetry

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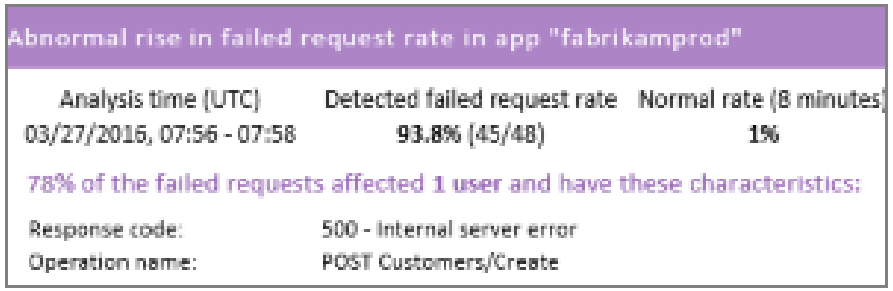
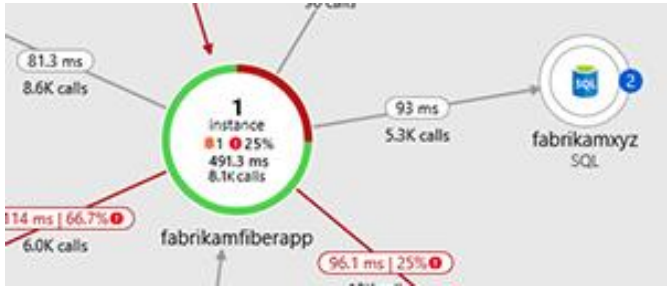
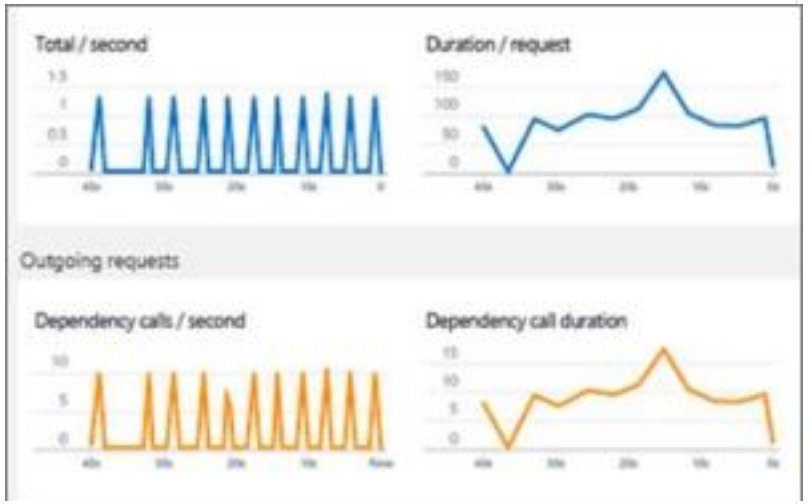
Smart detection and manual alerts



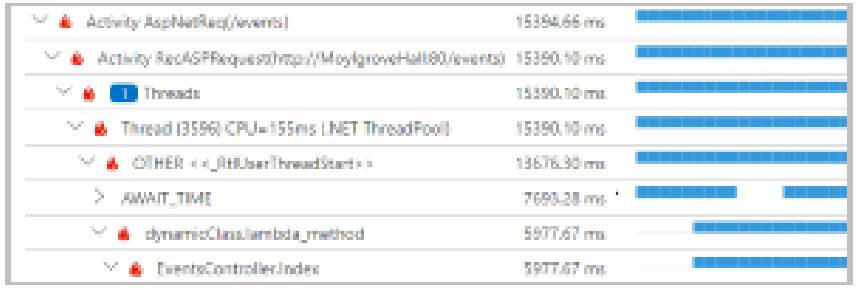
Application map



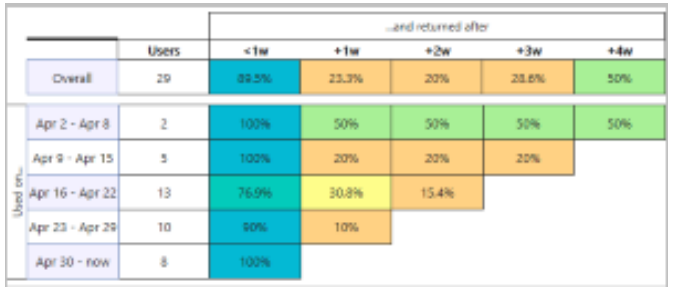
Live Metrics Stream



Profiler



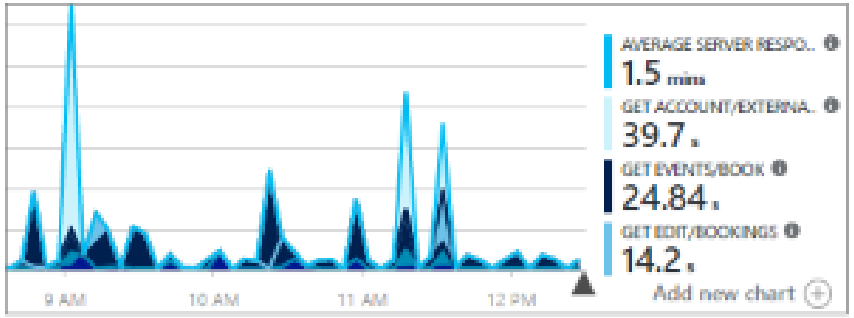
Usage analysis



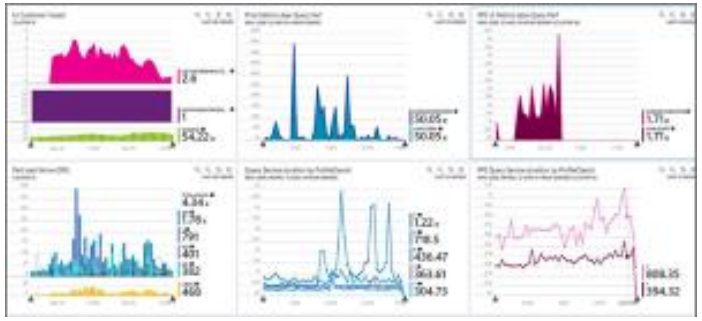
Analytics

```
requests
| where timestamp > ago(7d) and toint(duration) > 0
| summarize avg(duration), percentiles(duration,50)
  by bin(timestamp,2h) | render timechart
```

Metrics Explorer for aggregated data



Dashboards



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