Happy Troubleshooting in Azure



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Introduction



Troubleshooting options

Debugging Web Apps

Diagnostics logs

Visual Studio Application Insights

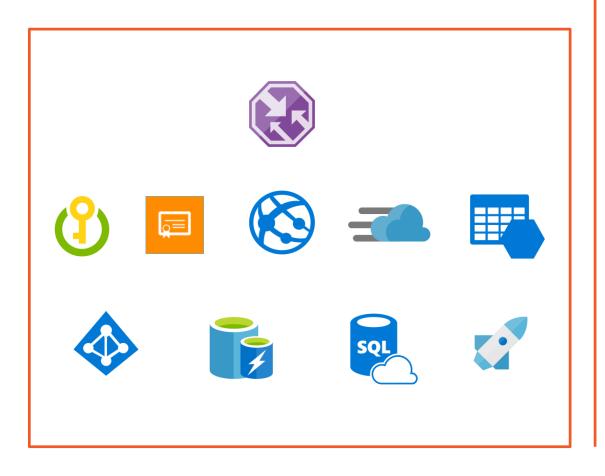


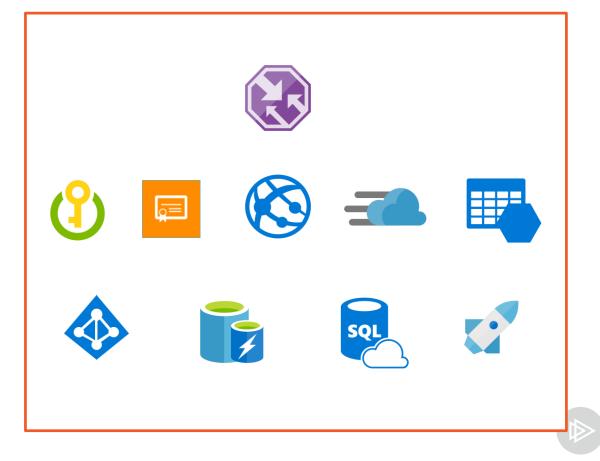
A Look at Azure Troubleshooting Options



Where Do Things Go Wrong?

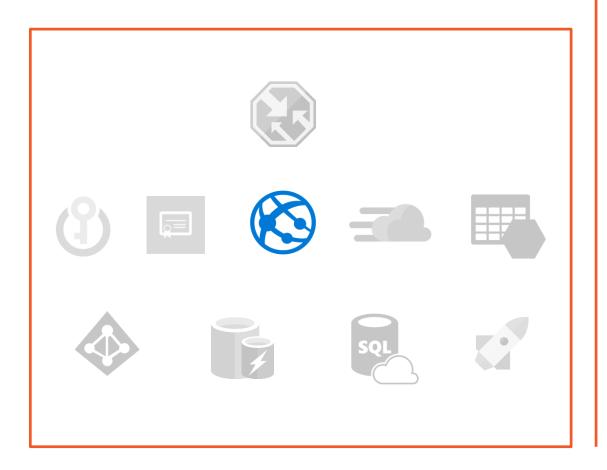
Development (Dev / Test / QA)

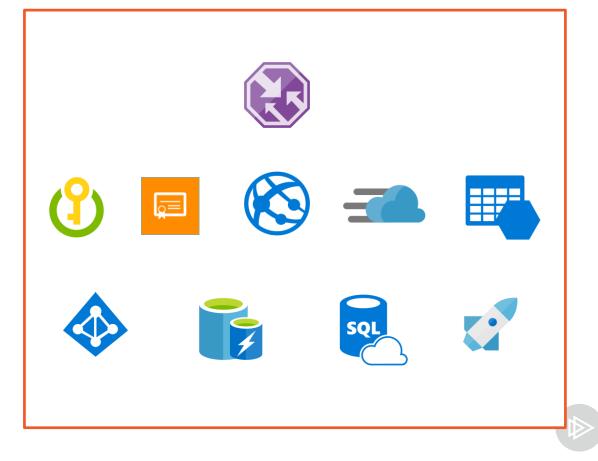




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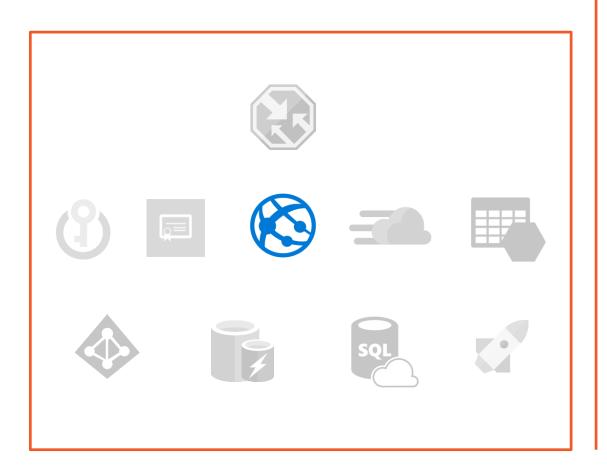
Development (Dev / Test / QA)

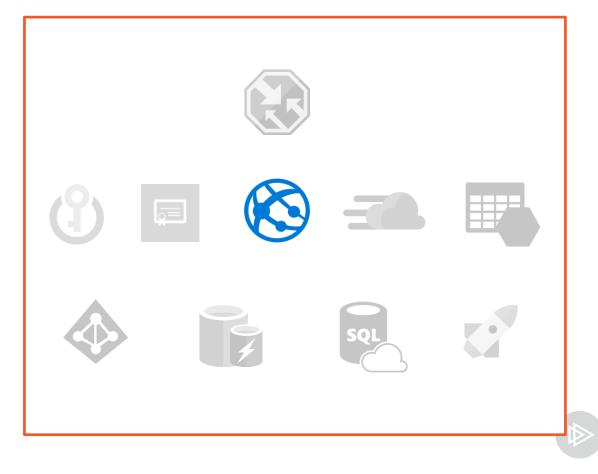




Where Do Things Go Wrong?

Development (Dev / Test / QA)





Troubleshooting Options

Development (Dev / Test / QA)

- Debugging
- Diagnostic logging
- Application Insights
- Operation Management Suite (OMS)

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About Debugging Web Apps

Visual Studio 2012, 2013 or 2015

Does not work with express edition

Azure SDK 2.2 or higher

Debugger simultaneous connection limit

- 1 connection for free and shared tiers
- 5 connections for standard and premium

You need to turn debugging on

- The setting will switch off after 48 hours

Requires debug version of your app



Demo



Debug a Web App Visual Studio



Using Diagnostic Logs to Troubleshoot Your App



Diagnostic Log Types

Application logging



Diagnostic trace information

Web server logging



Diagnostic information from the web server

Detailed error messages



Messages from exceptions

Failed request tracing

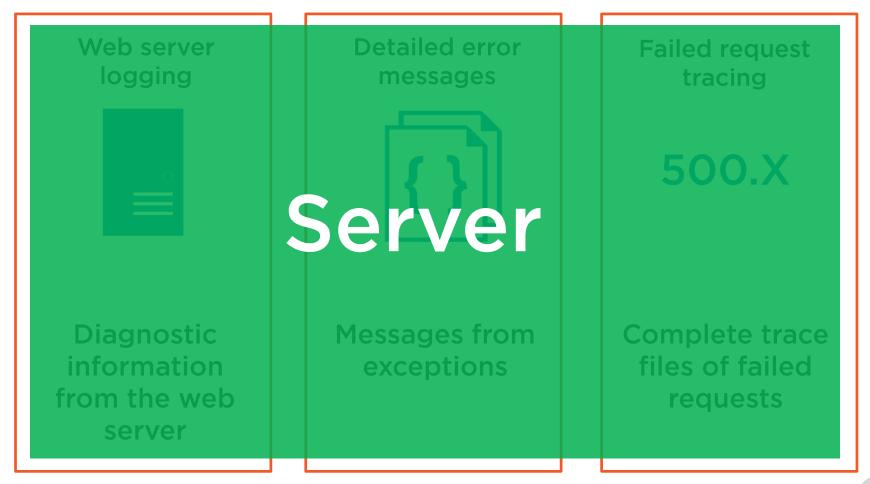
500.X

Complete trace files of failed requests



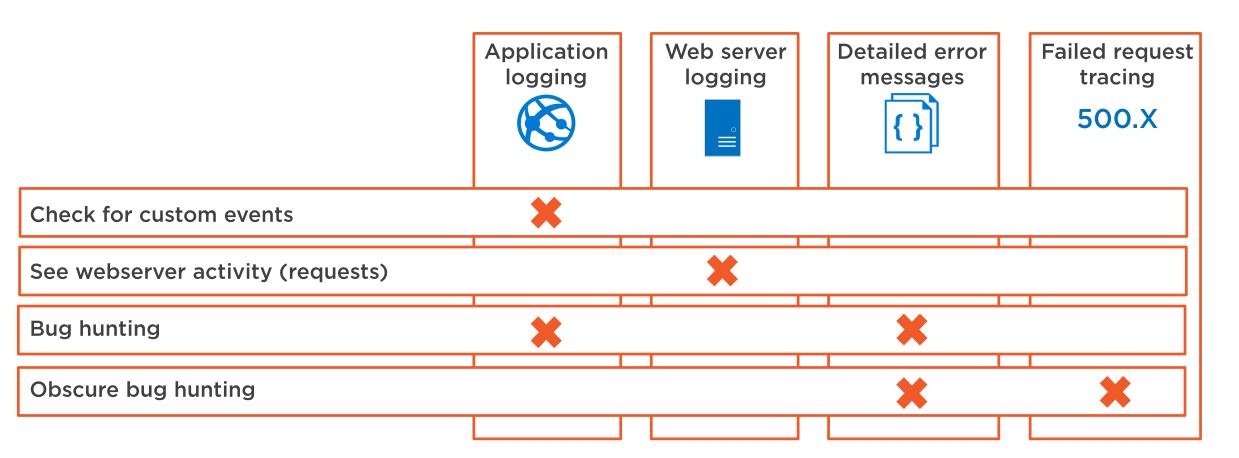
Diagnostic Log Types







Diagnostic Log Types





Demo



Enable logs
See the logs in action

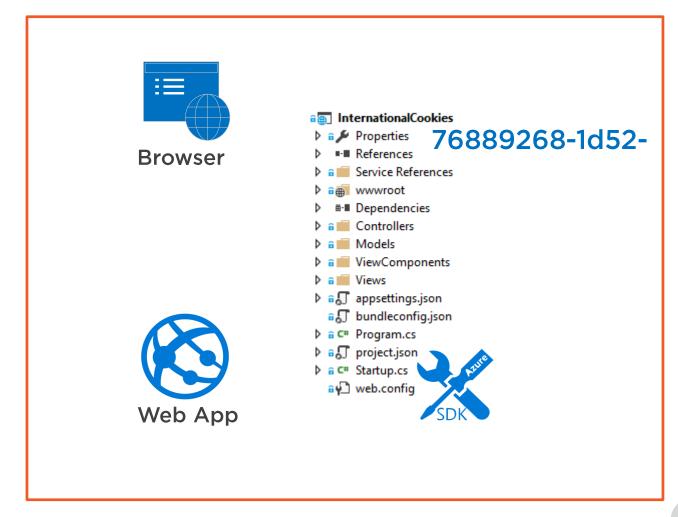


Get the Facts with Application Insights



Visual Studio Application Insights









About Application Insights

Measures application metrics

- Usage
- Availability (requires web tests)
- Failures and exceptions
- Performance
- Dependency performance and status

7 days raw data retained

90 days aggregated data

Continuous export of raw data

- JSON format

Analytics



Demo



Implement Application Insights



Summary



How to troubleshoot apps in Azure

- Debugging
- Diagnostics logs
- Visual Studio Application Insights

