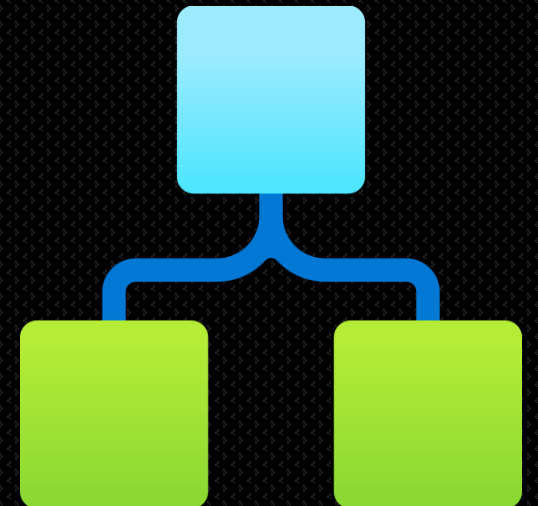


Do more with GitHub and Azure Logic Apps

Bryan Soltis

Microsoft Cloud Solution Architect
2023 Atlanta Developer Conference



Platinum Sponsors



Speaker Dinner Sponsor



Gold Sponsors

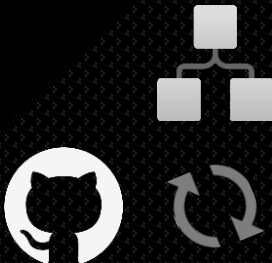


80s Random Pop Culture Question 1



What we're going to do

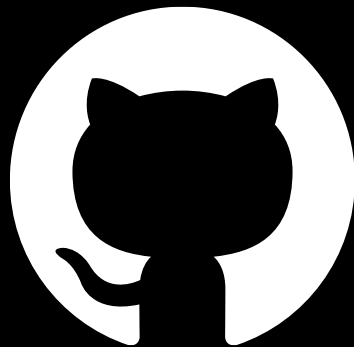
- GitHub & Logic Apps Overview
- GitHub Webhooks
 - Activities
 - Payloads
- Azure Logic App Connectors
- Demos
- Some other stuff



GitHub & Logic Apps

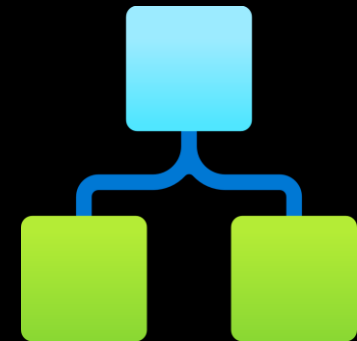
- GitHub

- Repos
- Actions
- REST API
- Webhooks
- Data!



- Azure Logic Apps

- Workflows
- Rapid development
- Connectors
 - Built-In
 - Standard
 - Enterprise
- Integrations
- Do stuff!



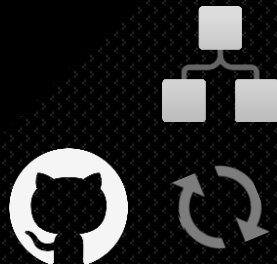
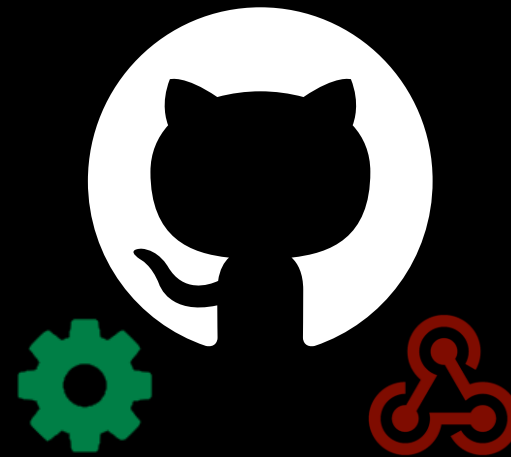
GitHub API & Webhooks

API

- Full GitHub Details
- Automations/Integrations
- Go get/put/do something!

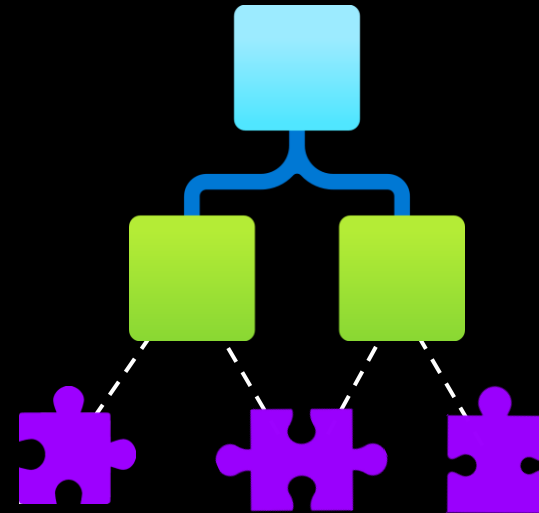
Webhooks

- Activities
- Payloads
- When something happens, do something else!

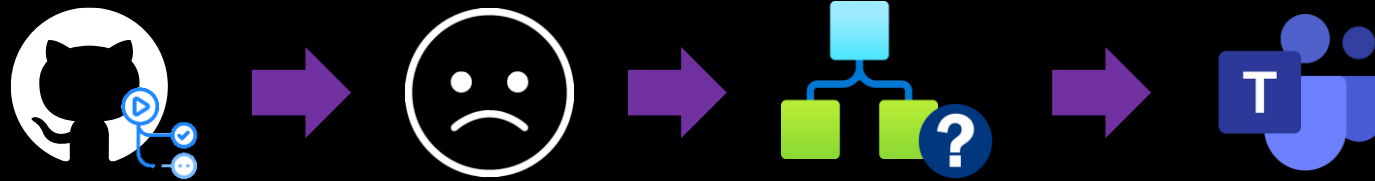


Azure Logic App Connectors

- API Wrappers
- 1000+
- Microsoft, Enterprise Companies, Custom
- Triggers vs Actions
- Easier than coding, and faster
- GitHub Connector
- Azure Function integration

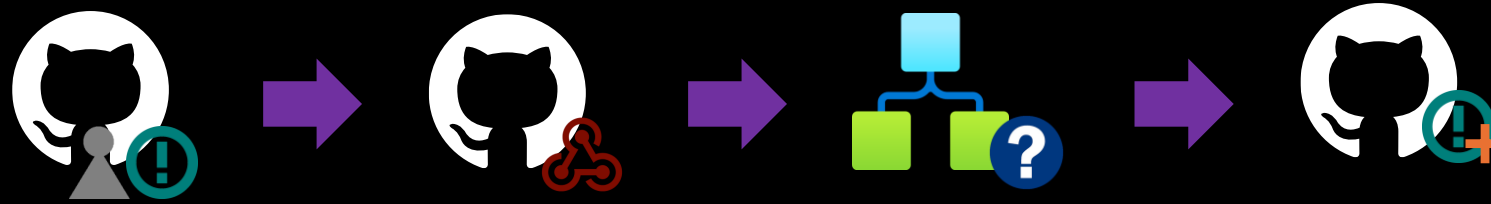


Demo: Alerting Teams on GitHub Activity



- GitHub Action is triggered
- GitHub Action failed 😞
- Evaluate Action run results
- Post to Teams channel

Demo: Evaluating New Issues

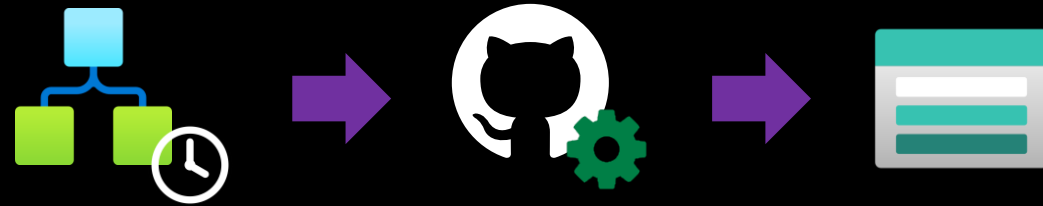


- User creates new issue in GitHub project
- GitHub webhooks posts to Azure Logic App
- Azure Logic App evaluates issue details
- If applicable, Azure Logic App updates GitHub issue to assign to user

80s Random Pop Culture Question 2



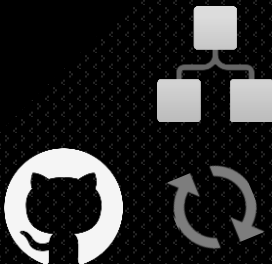
Demo: Logging GitHub Metrics



- Once a day, access GitHub REST API
- Retrieve traffic metrics
- Log metrics to Azure storage for archival

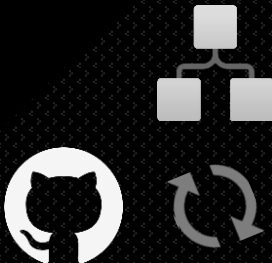
More Ideas?

- Download GitHub Action logs (API)
- Monitor a repository size and alert admins (API)
- Automatically publish Milestone completions (Webhook)
- Automatically post about new Releases/Packages (Webhook)
- Communicate with users who fork a repository (Webhook)
- Create a GitHub Team Discussion when an issue is created (Webhook)



Learn More

- About webhooks - GitHub Docs
<https://docs.github.com/en/webhooks/about-webhooks>
- List of all Logic Apps connectors | Microsoft Learn
<https://learn.microsoft.com/en-us/connectors/connector-reference/connector-reference-logicapps-connectors>
- GitHub - Connectors | Microsoft Learn
<https://learn.microsoft.com/en-us/connectors/github/>
- GitHub REST API documentation
<https://docs.github.com/en/rest>
- Monitoring GitHub Actions with Azure Logic Apps
<https://soltisweb.com/blog/detail/2023-06-01-monitoring-github-actions-with-azure-logic-apps>

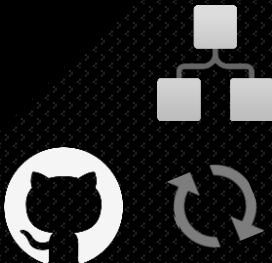


Shameless Plug

- Azure Naming Tool
 - Defining / Managing Azure Naming Conventions
 - .NET 7 Blazor Server Application
 - REST API
 - 100% Open Source
 - FREE!



<https://aka.ms/AzureNamingTool>



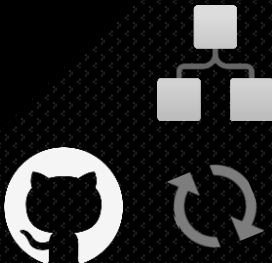
80s Random Pop Culture Question 3



Me

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GI JOE

KNOWING IS HALF THE BATTLE