Let's VSCode play with Wildfly/EAP

Jeff Maury (@jeffmaury) Red Hat



Server Connector

- Open source
- Support any runtime in VSCode (or others)
- Pluggable architecture
- Based on an LSP inspired protocol: RSP
- https://github.com/redhat-developers/rsp-server
- https://github.com/redhat-developers/vscode-adapters
- Protocol description: https://bit.ly/2JEgqg2



Architecture

- vscode-adapters extension implements a generic UI
- rsp-server is a Java based server implementing RSP
- SPI for adding new runtime support







- List supported runtimes
 - Each SPI can provider one or several types
 - Return the whole list of server types (id, description)
 - Used when downloading a runtime



- List downloadable runtimes
 - Each SPI can provider one or several types
 - Return the whole list of server types (id, description, url)
 - Used when downloading a runtime
 - An SPI may support download or not



- Create server
 - Must provide server type (id) and server id
 - Must provide required parameters (based on id)
 - May provide optional parameters (based on id)
 - Return status code and diagnostic code



- Download runtime
 - Must provide server type (id) and request id
 - Must provider required parameters (based on id)
 - May provide optional parameters (based on id)
 - Return status code and diagnostic code



- Start server
 - Must provide mode and server id
 - Return status code, command line and diagnostic code



- Stop server
 - Must provide server id
 - Return status code and diagnostic code







- Install extension (search 'connector' in marketplace)
- Download Wildfly



- Add deployable
 - Must provide server id + path
 - Path maybe a file or a folder
 - Return status code and diagnostic code



- Remove deployable
 - Must provide server id + path
 - Path maybe a file or a folder
 - Return status code and diagnostic code



- Publish server
 - Must provide server id
 - Synchronize local workspace with runtime/server
 - Return status code and diagnostic code







- Start server
- Add deployment (github.com/wildfly/quickstart)
- Publish server
- Modify local file
- Publish
- Debug server
- Add breakpoint
- Debug application code



- Notifications
 - serverAdded / serverRemoved
 - serverStateChanged
 - serverProcessOutputAppended



What's next

- Extensibility
 - Extension as SPI
- Custom actions
 - Open in browser,
- Configuration support
- More runtimes



Thanks

- Q / A
- Feedback wanted!

