Front-end Development with aemfed

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Objectives:

- Describe benefits of aemfed
- Install aemfed
- Develop using aemfed

Node.js® and NPM

Node.js

- Asynchronous event driven JavaScript runtime
- Built on Chrome V8 JavaScript engine



Node Package Manager (NPM)

- CLI package manager
- Manages an online repository of open source node.js packages
- Manages dependencies for Node.js packages

aemfed

Open-source, command-line tool used to speed up front-end development

• URL to the open source project - https://aemfed.io/

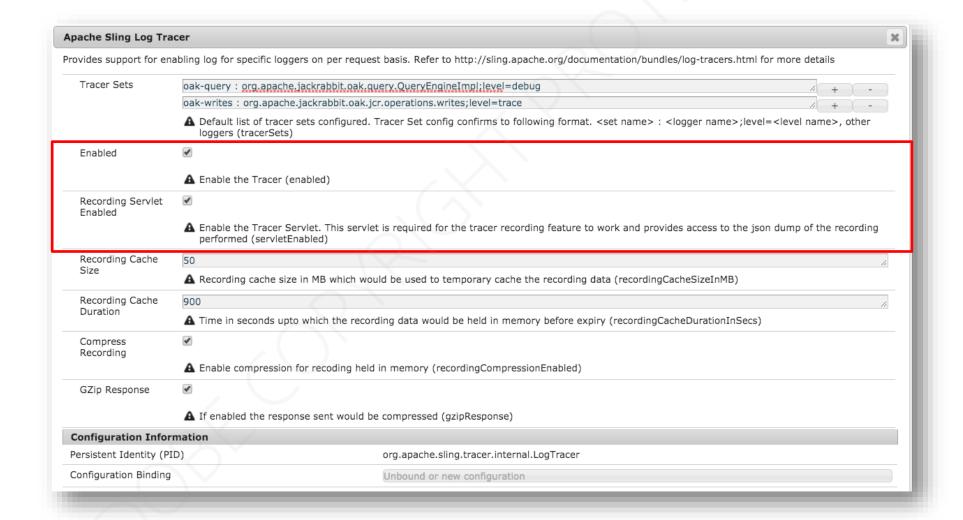
It is powered by

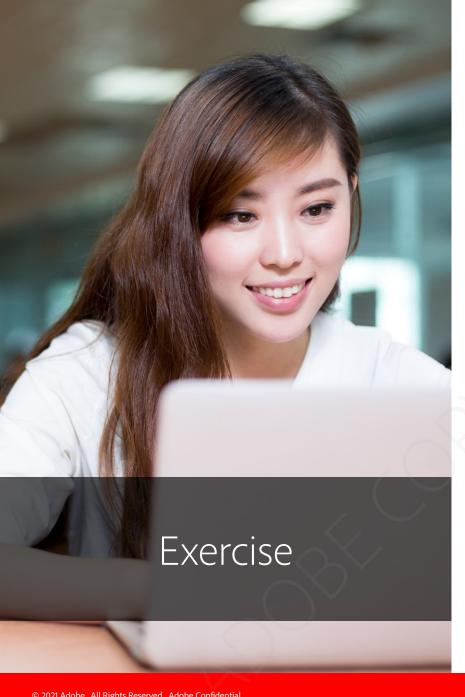
- aemsync
- Browsersync
- Sling Log Tracer

Why aemfed?

- Listens for file changes and, using *aemsync*, automatically syncs to an AEM instance
- Determines which clientlibs are affect by the uploaded changes
 - Browsersync communicates with all tabs of your browser that are open to AEM pages, without any browser plugins
 - Styling changes are immediately injected without a reload, maintaining the state of the page
 - o All other changes, result in a page reload/refresh
- Works with the Sling Log tracer to automatically display any front-end related, server-side errors directly in the terminal window

Enabling the Apache Sling Log Tracer



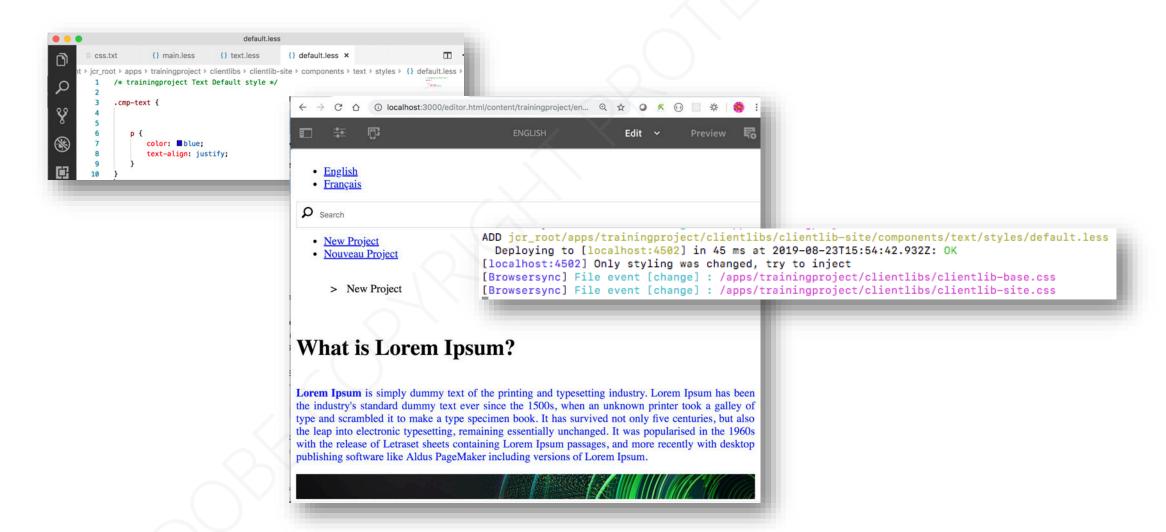


Exercise 1 - Install Node.js and NPM

Exercise 2 – Configure and run aemfed

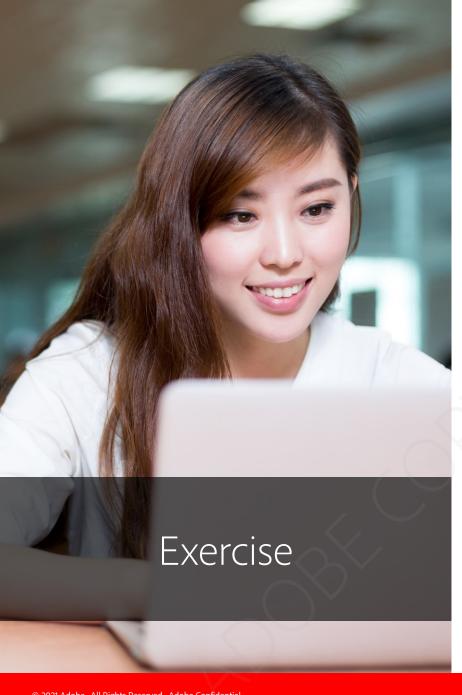
Exercise 3 – Install content locally (optional)

aemfed Watches File Changes



Apache Sling Log Tracer Displays Errors

Adobe

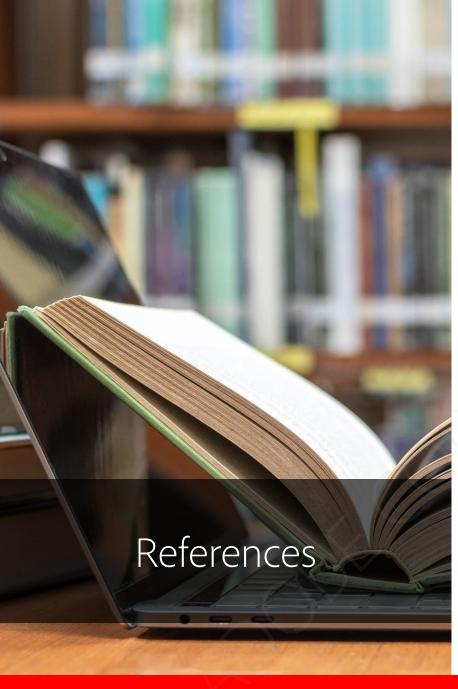


Exercise 4: Add a component style using aemfed



Key Takeaways:

- Node.js
 - o Enables developers to use JavaScript to write command line (CLI) tools and for server-side scripting
- aemfed
 - o Open-source, command-line tool used to speed up front-end development
 - o Listens for file changes and, using *aemsync*, automatically syncs to an AEM instance
 - o Works with the *Sling Log tracer* to automatically display any frontend related, server-side errors directly in the terminal window



Resources:

- aemfed: https://aemfed.io/
- https://github.com/abmaonline/aemfed