SharePoint SPFX
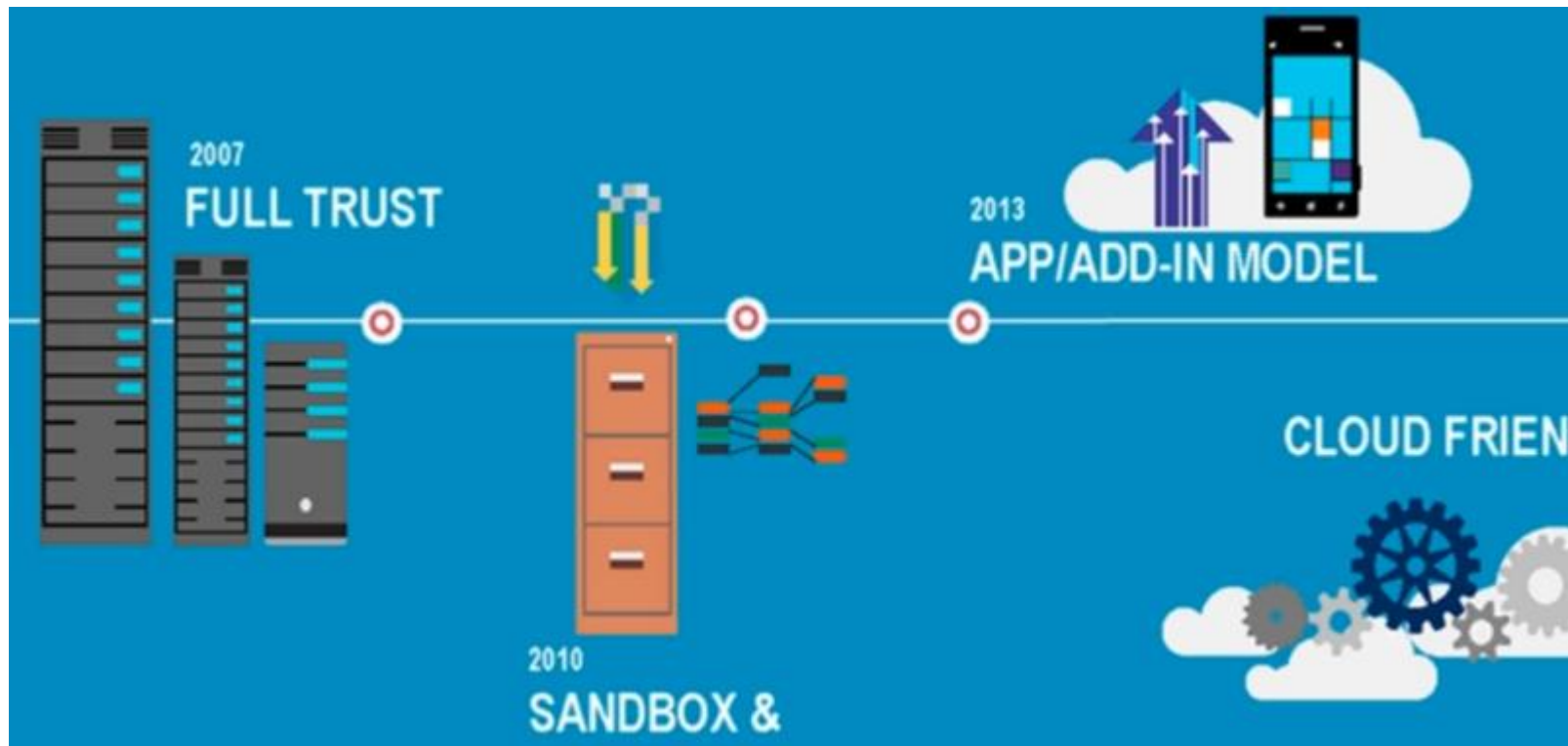
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Introduction to SPFX Development

- Overview of SharePoint Framework Development
- SharePoint Evolution Across Versions
- How SPFx is different?
- Main Features of SPFx
- SPFx Tool Chain
- Application Life Cycle Management (ALM) of SPFx Solutions
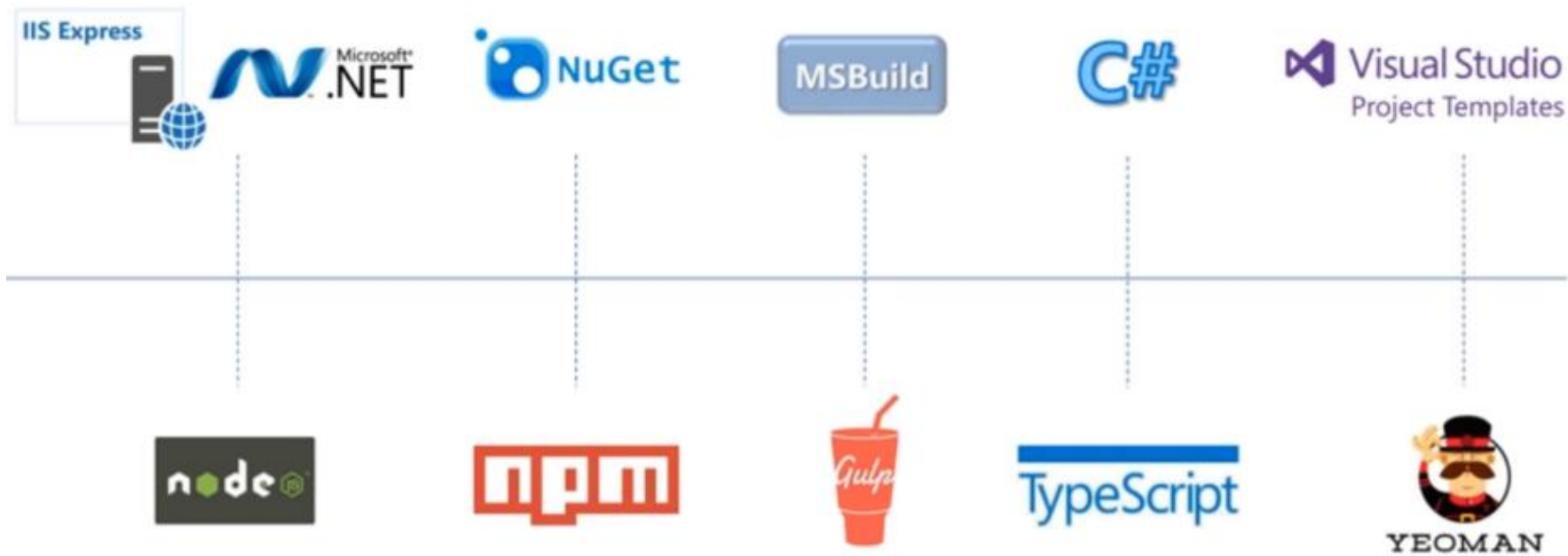
SharePoint Evolution Across Versions

How SPFX is Different ?

▶ Supports Modern Tool Chain including Node.js, npm, Yeoman, Gulp, TypeScript.

▶ We can consume REST API classes to communicate with SharePoint Data.

▶ SPFx supports SharePoint Online as well as SharePoint On-Premises server.

▶ SharePoint 2016 Feature Pack 2 is required for SharePoint 2016 On-Premises Server.

▶ SPFx is supported out of the box for SharePoint 2019 On-Premises Server.

▶ SPFx does purely Client Side rendering.

▶ It works on all operating systems like Windows, MacOS etc.

Main Features of SPFX

- Any framework like React, Angular, Knockout can be used with SPFx Development.

- It supports Open source development tools like npm, TypeScript, Yeoman, Webpack & Gulp.

- It can be used with both Classic and Modern SharePoint Pages.

- Controls are responsive.

- It does not support the elevation of privileges.
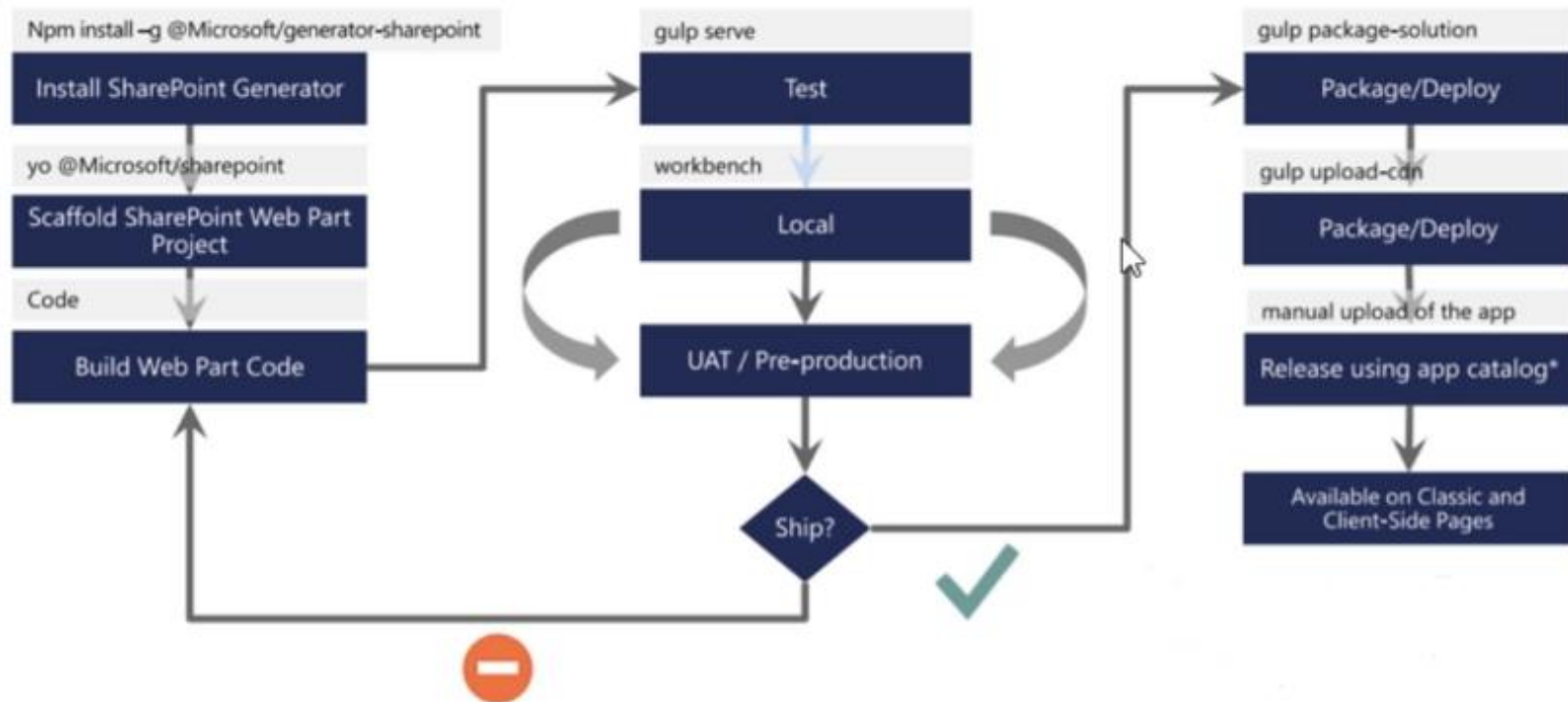
SPFX Toolchain

SPFX Toolchain

- ▶ Node.js : It is responsible to build and run the applications.

- ▶ SPFx supports LTS version of Node.js 8.x

- ▶ NPM : Node Package Manager, maintains an online repository to deploy NPM Packages.

- ▶ NPM packages can be installed locally or globally using -g option.

- ▶ Installed NPM packages can be found in node_modules folder.

- ▶ Gulp automates SPFx development and deployment tasks.

- ▶ Gulp also bundles and minifies JavaScript and CSS files.

- ▶ Gulp also compiles TypeScript files into JavaScript.

SPFX Toolchain

- Yeoman is a scaffolding tool for Modern Web Apps.
- It relies on NPM & GULP.
- Yeoman is used as SPFx Solution Code Generator.
- TypeScript is a strongly Typed Language.
- TypeScript adds compile-time syntax and type checking for JavaScript.
- TypeScript code gets compiled into JavaScript Code.
- Local SharePoint Work Bench is served by Node.js on local system.
- Local SharePoint workbench is available as workbench.html, where as Hosted SharePoint workbench is available as workbench.aspx on SharePoint online.

ALM of the SPFX Client Side Web Part

Thanks !!!