Session 03 Build automation



Housekeeping

- Please keep yourself muted unless you are participating in the conversation, so we can have a more clear recording.
- ☐ If you have questions don't hesitate and ask.

Quick recap

• Build once, deploy multiple times

Who are they?

- Build queue
- Build agent
- Parallel pipeline
- Build stage and build job
- Build step

Highlights

General flow

- 1. Restore dependencies (optional)
- 2. Build application (optional)
- 3. Run tests (optional)
- 4. Export artifacts

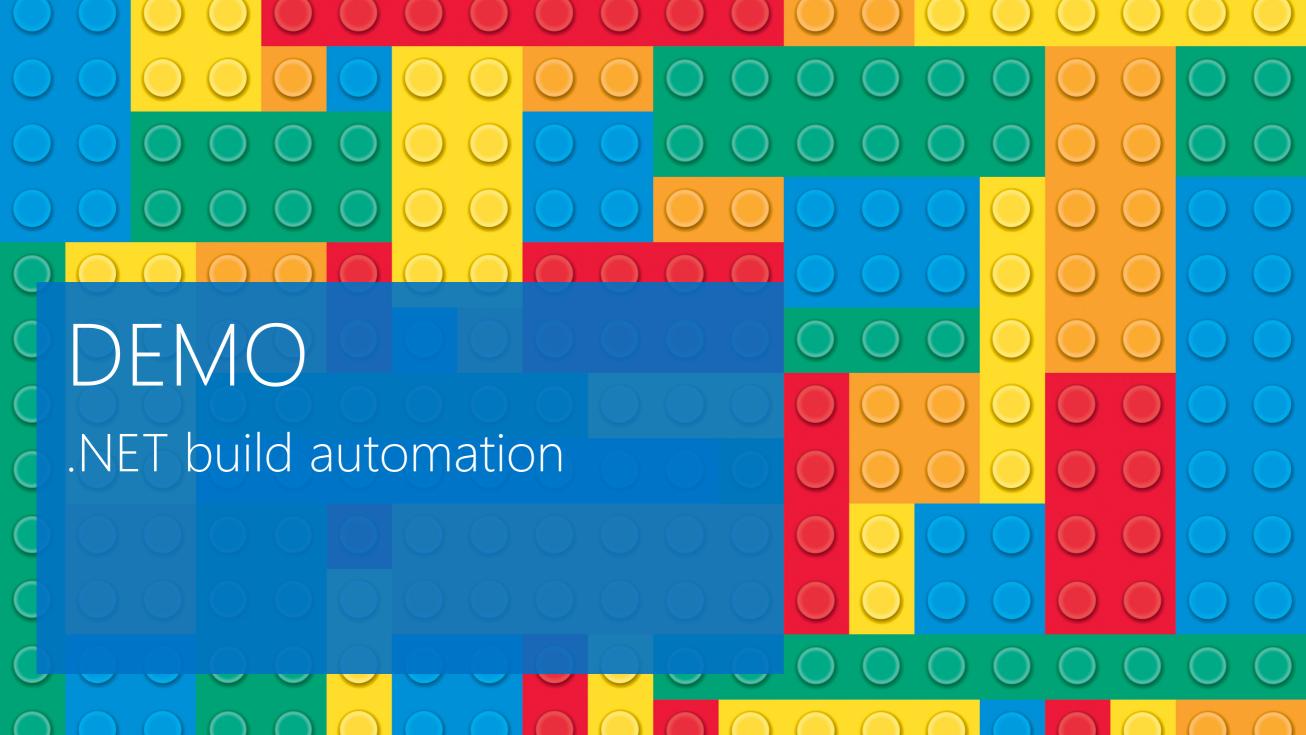
Target environment

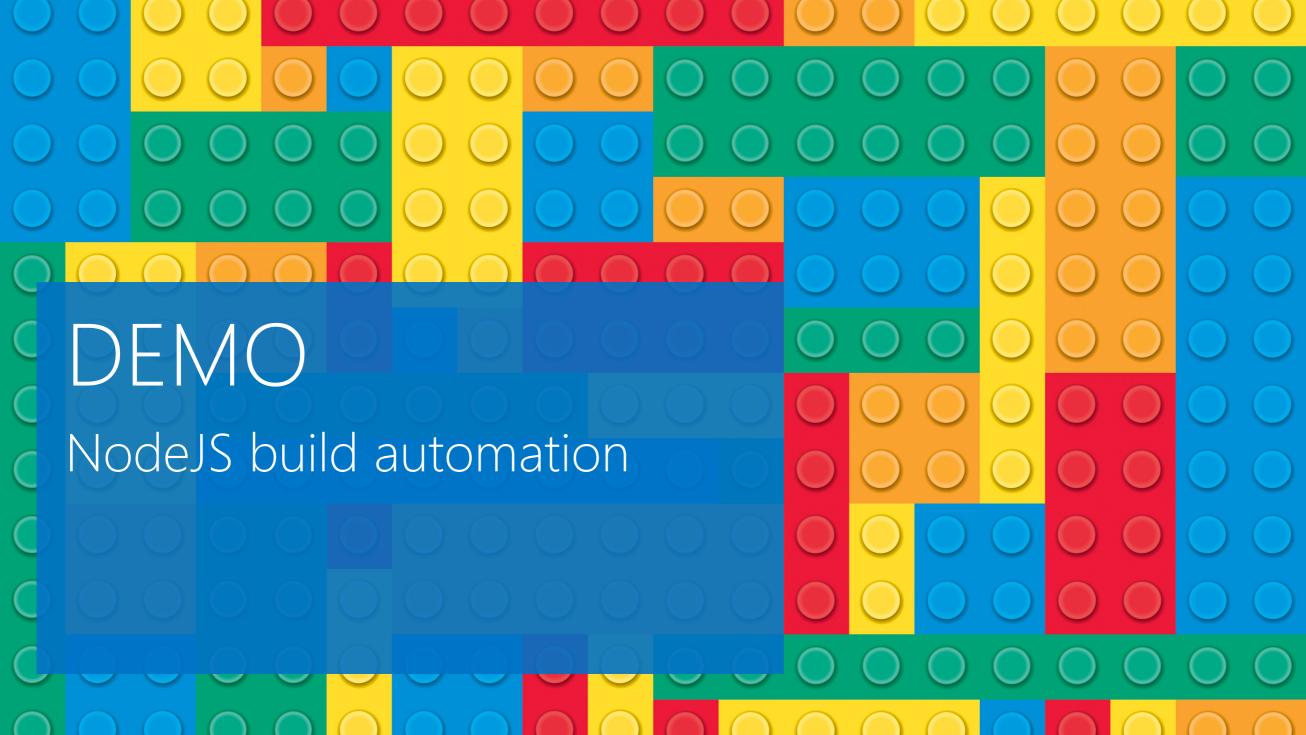
- Server
- Browser
- Desktop
- Mobile
- -

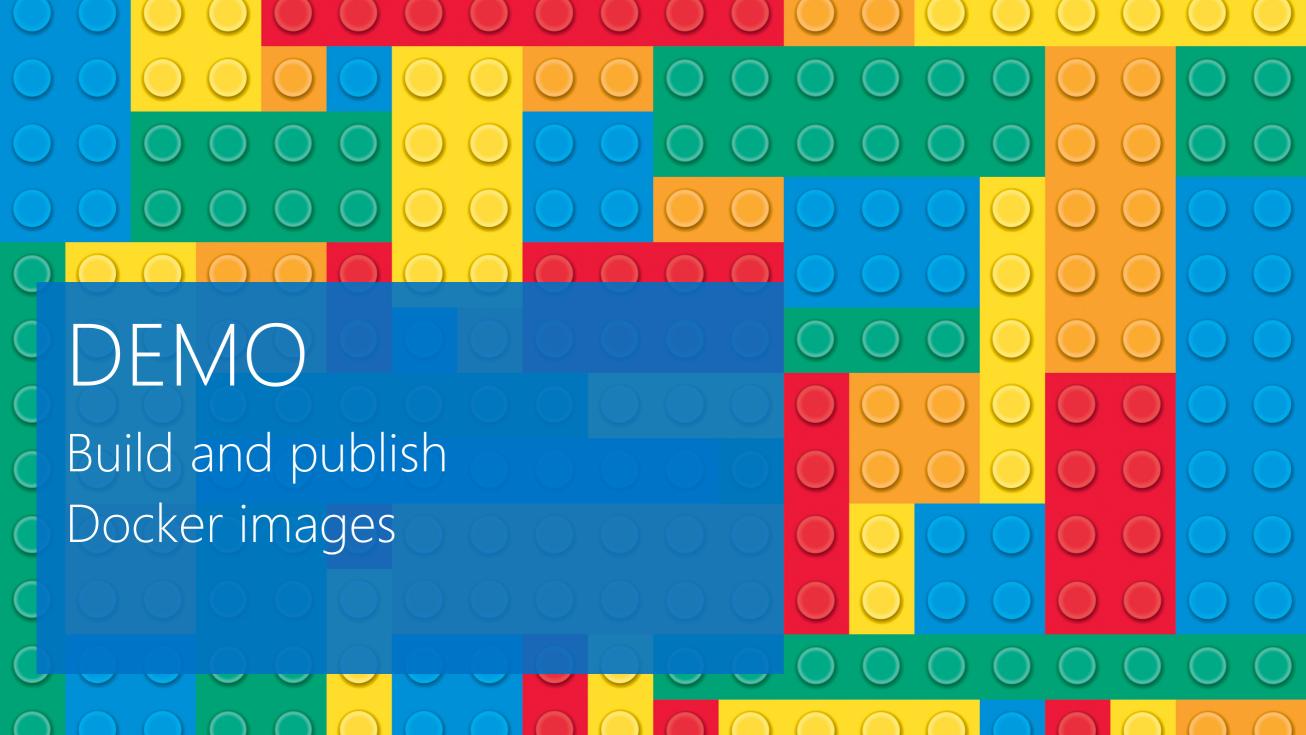
Build platform

- Server
- .NET
- Java
- Python
- NodeJS
- Browser
- .NET
- JavaScript

- Desktop
- .NET
- Java
- Python
- NodeJS
- Mobile
- .NET
- Java
- JavaScript

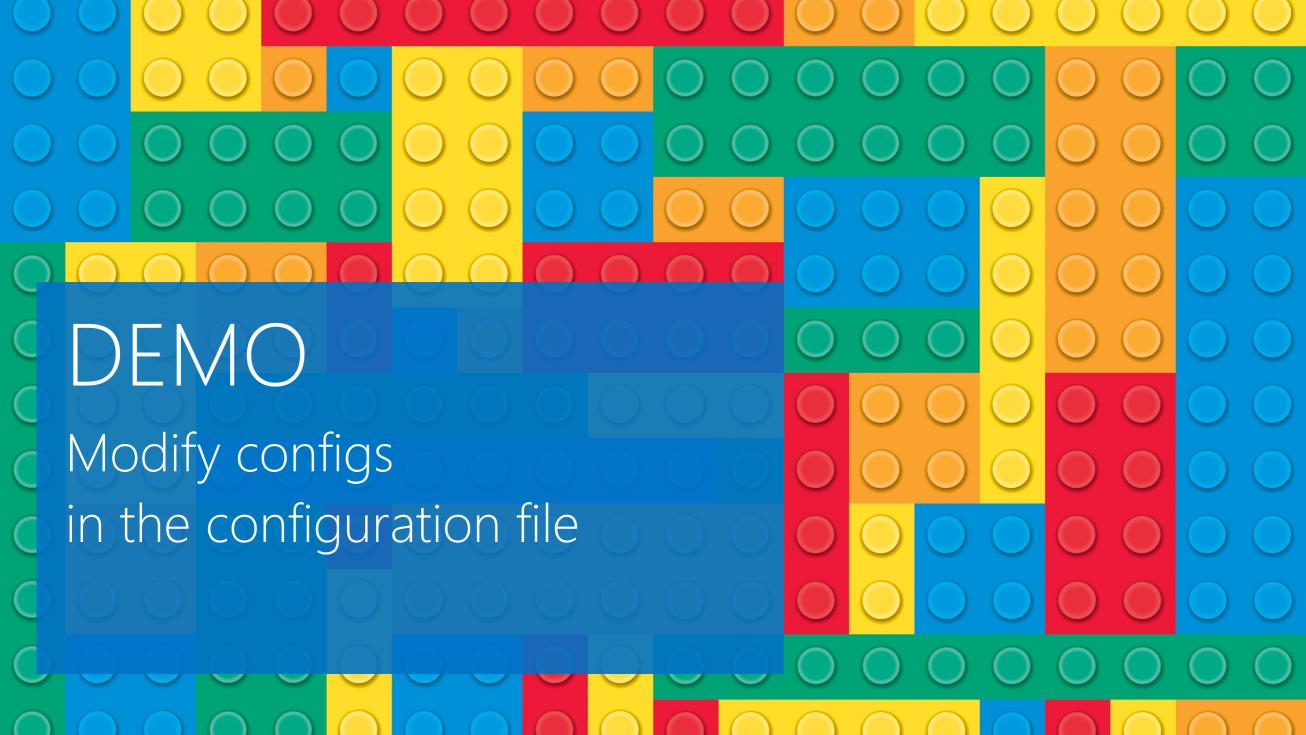


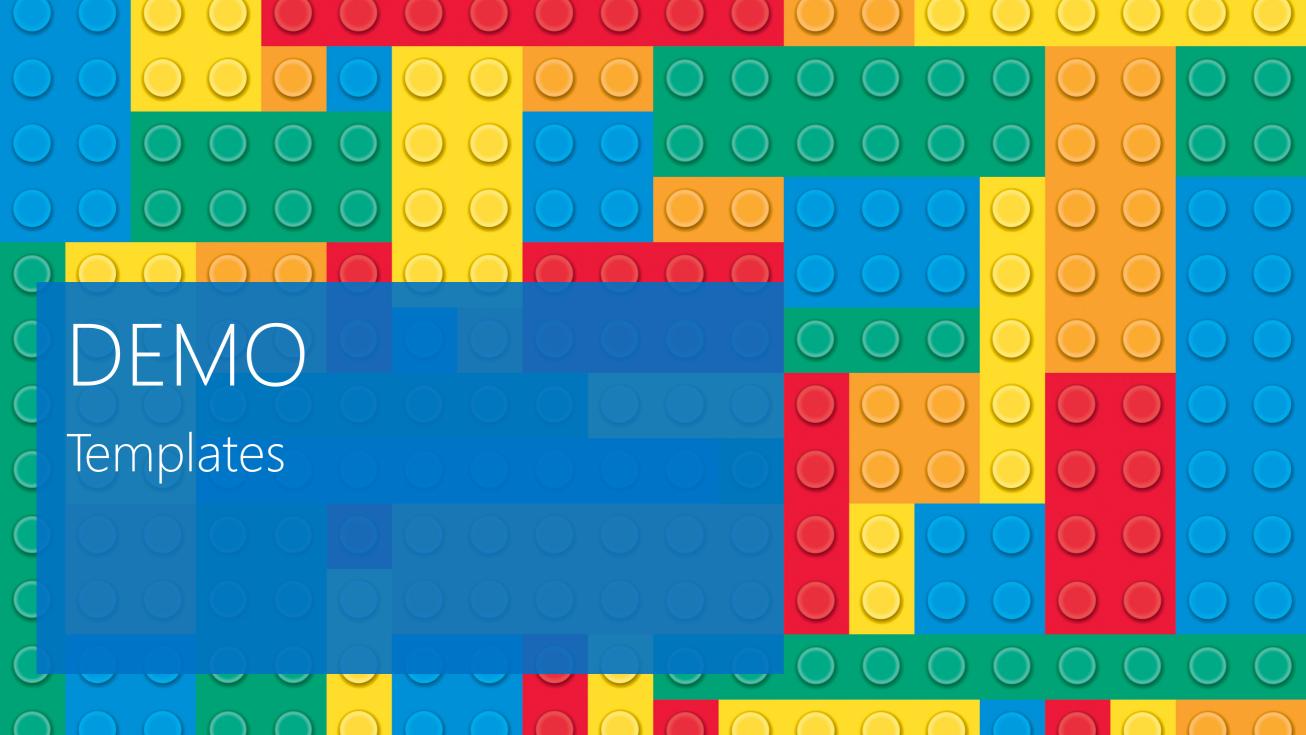




Runtime configuration management

- Pull
- Push
- Embed
- Code





Questions?



Homework

Do (1)

- Create new repos on GitHub and upload sample applications there.
- Automate builds using GitHub actions for each application. Export standalone artifacts.

Do (2)

- Create a service connection from Azure DevOps to GitHub.
- Automate builds using Azure DevOps pipelines for each application. Export standalone artifacts. You need to use yml pipelines.

Do (3)

 Create Dockerfile for each application. Push created images to Docker Hub. Automate it with Azure DevOps pipelines (use yml pipelines) and GitHub actions.

Deadline

Recommended – by the end of the day 10.08.2022



Maximum – by the end of the day 12.08.2022

