Questions?

Session 04
Release automation

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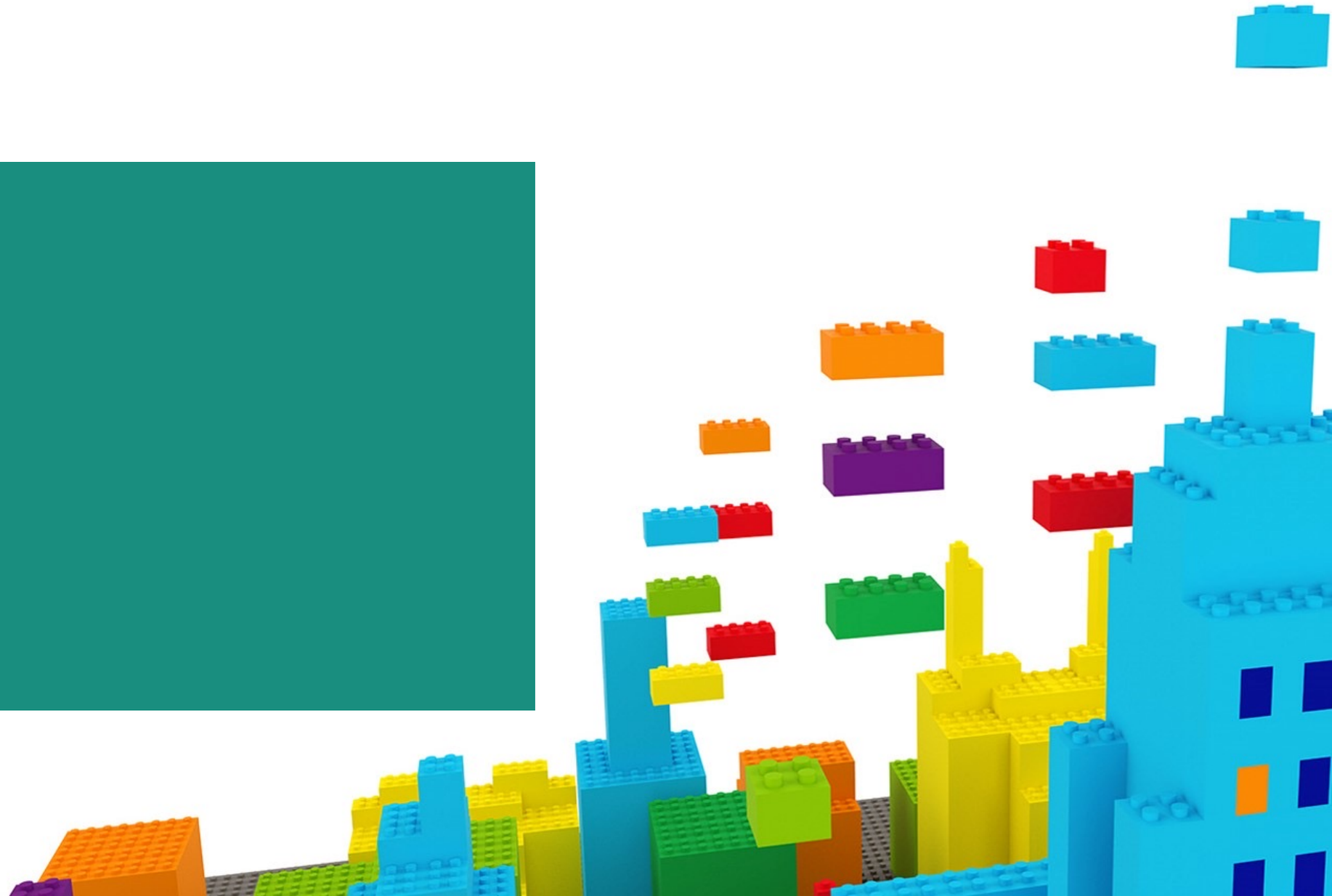
Housekeeping

- 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

Highlights



General flow

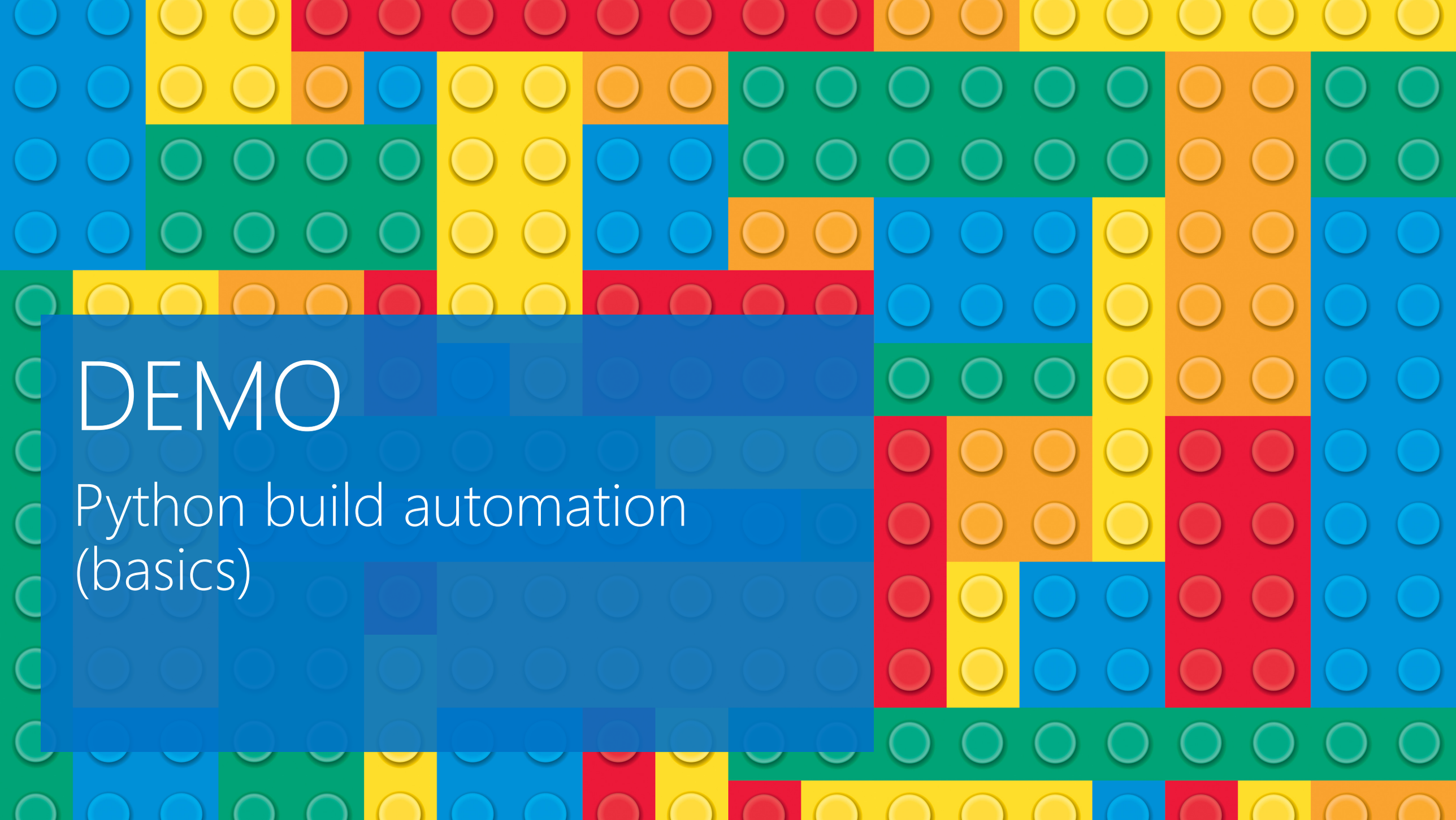
1. Download build artifacts (optional)
2. Upload build artifacts to target environment (optional)
3. Adjust configuration (optional)

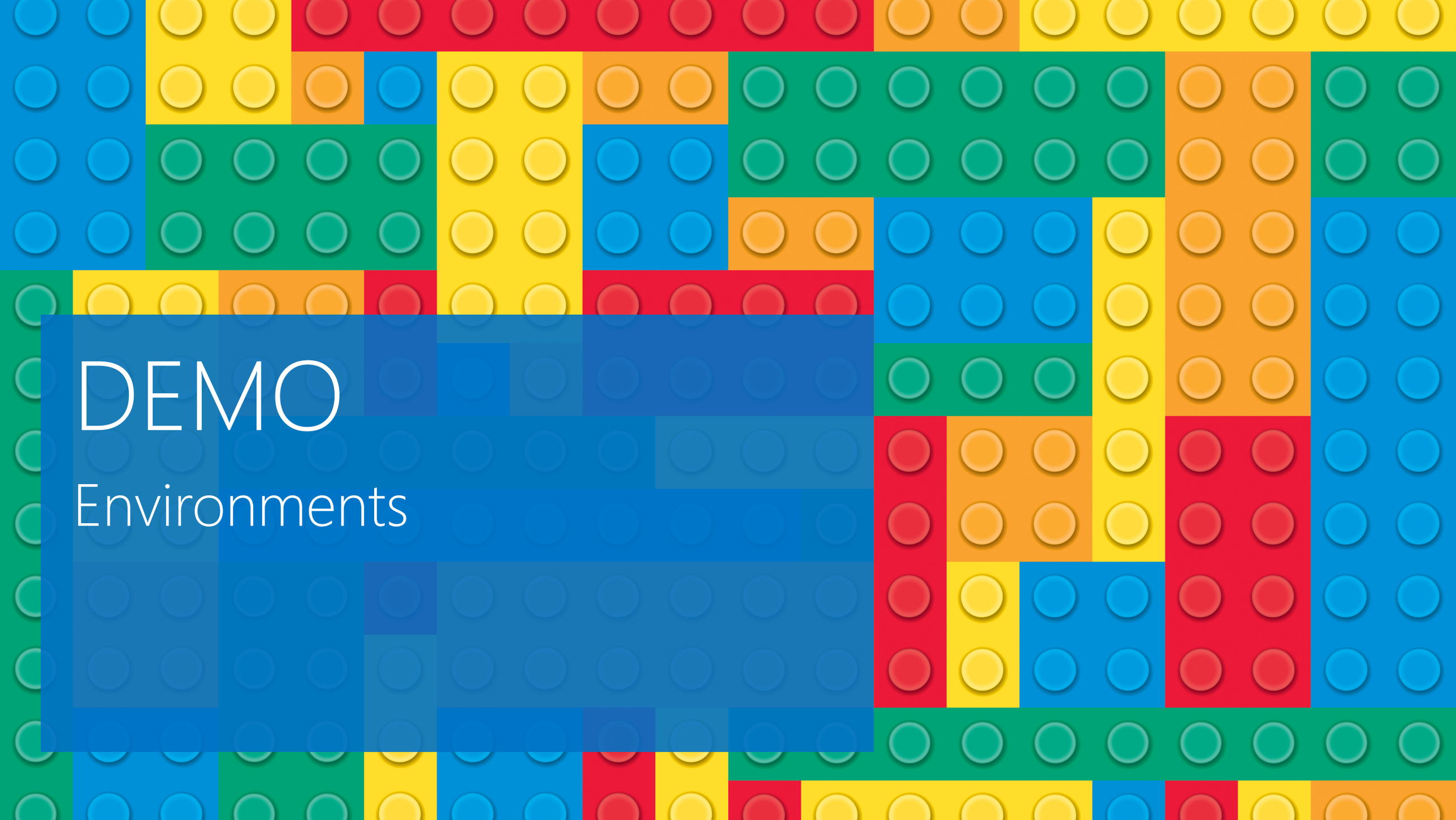
Target environment

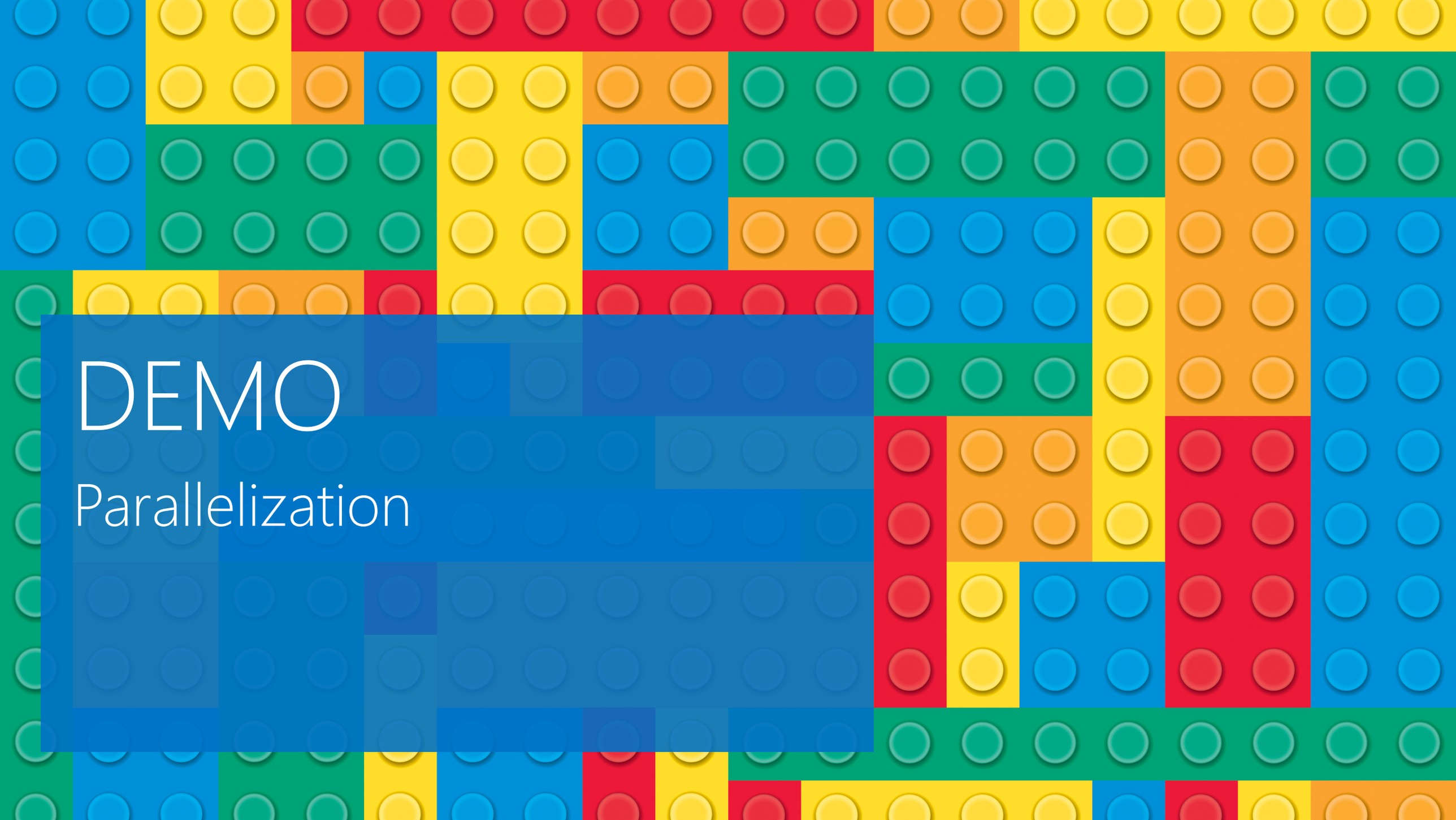
- Server
- Browser
- Desktop
- Mobile
- …

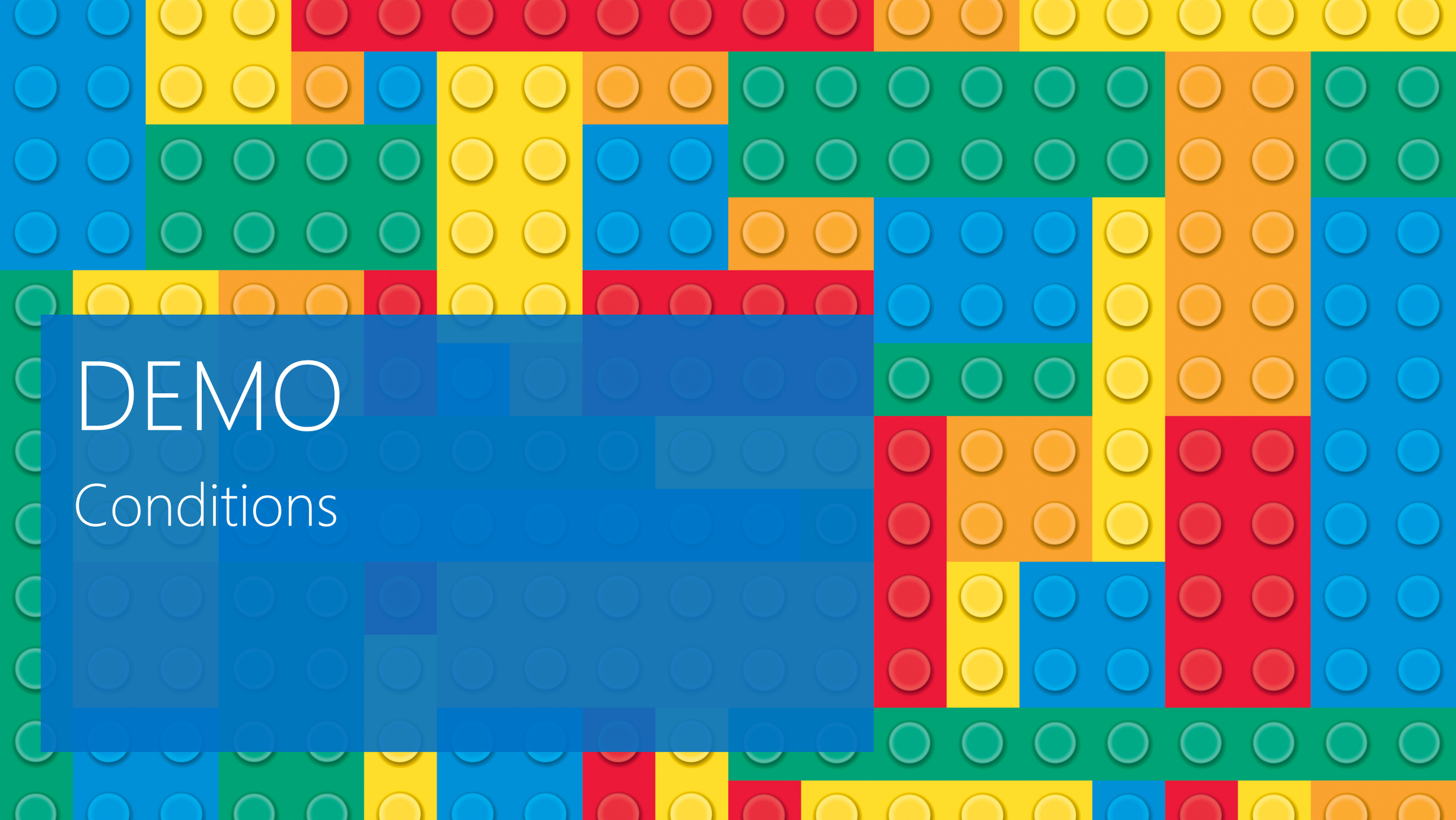
Build platform

- Server
  - Any
- Browser
  - Any
- Desktop
  - Any
- Mobile
  - Any


DEMO
Python build automation
(basics)


DEMO
Environments


DEMO
Parallelization


DEMO
Conditions

Questions?

Homework

Do (1)

- For both, GitHub and Azure DevOps – protect your main branch with policies. Allow only pull requests to merged into the main branch, block all direct commits.
- Allow pull requests to be merged only if build was successful.

Do (2)

- Create 4 environments for upcoming deployment automation – dev, stage, prod, dr in Azure DevOps.
- You need to use yml pipelines.
- Create dummy release pipeline.

- Use simple script to emulate actual deployment. For example, echo “hello world”.
- Release should be triggered automatically as soon as any of the build artifacts was updated.
- All environments (except dev) should have a manual confirmation quality gateway.
- You can deploy only artifacts from the main branch to prod and dr environments.
- Prod and dr environments should be deployed in parallel.

Deadline

Recommended – by the end of the day 12.08.2022

Maximum – by the end of the day 12.08.2022