Uni Web Topics Themes

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- Distribution to Android
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Introduction

Contributing

Contributing

These study materials are heavily based on professor Heuzeroth's "Spezielle Themen für Web-Anwendungen" lecture at HdM Stuttgart.

Found an error or have a suggestion? Please open an issue on GitHub (github.com/pojntfx/uni-webtopics-notes):

Figure 1: QR code to source repository

If you like the study materials, a GitHub star is always appreciated

License

License

Figure 2: AGPL-3.0 license badge

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Overview

Overview

- What is DevOps?
- Which parts of the software lifecycle does it cover?
  - Development
  - Distribution (I will focus on this today)
  - Operation

Development

Development

- GitPod
- Codespaces
- Coder
- pojde
- Waypipe
- USB forwarding
- Port forwarding

Distribution

Basic Distribution Principles

Basic Distribution Principles

- Binaries
- GPG signing and Gridge
- Cosign
- Portability
- Reproducibility
- Why we need more than “just binaries”

Pipelines

Pipelines

- Bagop
- Hydrun
- GitHub Actions
- Semantic Release

Distribution to RedHat Linux

Distribution to RedHat Linux

- RPM packages
- Yum repository

Distribution to Linux (universal)

Distribution to Linux (universal)

- Flatpak
- Flatpak repository

Distribution to Debian GNU/Linux

Distribution to Debian GNU/Linux

- DEB package
- APT repository

Distribution to Android

Distribution to Android

- APK
- F-Droid repository

Distribution to Windows

Distribution to Windows

- MSI package with auto-updates

Distribution to macOS

Distribution to macOS

- DMG package with auto-updates

Distribution to Kubernetes/the Cloud

Distribution to Kubernetes/the Cloud

- Docker
- Kubernetes
- Helm
- Skaffold

Distribution to WebAssembly

Distribution to WebAssembly

- WASM-Binary
- WASI/wasm_exec equivalents

Operation

Operation

- Sentry
- OpenTelemetry
- Prometheus
- Grafana