!Docker, I Guess?

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***Abstract*—This document is a model and instructions for LaTeX. This and the IEEEtran.cls file define the components of your paper [title, text, heads, etc.]. *CRITICAL: Do Not Use Symbols, Special Characters, Footnotes, or Math in Paper Title or Abstract.**

Acronyms

2FA 2 Factor Authentication

I. Introduction

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II. Background

A. Need for Virtualization

B. Containerization Vs. Virtualization

C. Docker

D. The OCI

III. Docker Architecture

A. The Docker Engine

1) Client server: (Todo: join this sections)
2) Monolithic Architecture: (Todo: join this sections)
3) runc:
4) containerd:

B. Images

1) Layers:

C. Containers

D. Container Creation Process

1) Workflow:
2) Dockerfile:
3) Docker Compose:

E. Volumes and Persistent Data

F. Networking

IV. Docker Security

A. UID 0

B. Privileged Containers

C. Secure Computing Mode

D. SELinux and AppArmor

V. Conclusion

References

[1] S. P. Kane and K. Matthias, *Docker: Up & running*. Sebastopol, CA: O'Reilly Media, 2 ed., Sept. 2018.