



# Zurich University of Applied Sciences

Department School of Engineering

Institute of Computer Science

MASTER THESIS

---

**Title**

---

*Author:*  
Caspar Wackerle

*Supervisors:*  
Prof. Dr. Thomas Bohnert  
Christof Marti

Submitted on  
January 31, 2026

Study program:  
Computer Science, M.Sc.

## Imprint

*Project:* Master Thesis  
*Title:* Title  
*Author:* Caspar Wackerle  
*Date:* January 31, 2026  
*Keywords:* energy efficiency, cloud, kubernetes  
*Copyright:* Zurich University of Applied Sciences

*Study program:*  
Computer Science, M.Sc.  
Zurich University of Applied Sciences

*Supervisor 1:*  
Prof. Dr. Thomas Bohnert  
Zurich University of Applied Sciences  
Email: [thomas.michael.bohnert@zhaw.ch](mailto:thomas.michael.bohnert@zhaw.ch)  
Web: [Link](#)

*Supervisor 2:*  
Christof Marti  
Zurich University of Applied Sciences  
Email: [christof.marti@zhaw.ch](mailto:christof.marti@zhaw.ch)  
Web: [Link](#)

# Abstract

## Abstract

The accompanying source code for this thesis, including all deployment and automation scripts, is available in the **PowerStack**[\[1\]](#) repository on GitHub.

# Contents

<b>Abstract</b>	<b>iii</b>
<b>1 Introduction and Context</b>	<b>1</b>
<b>A Appendix Title</b>	<b>2</b>
<b>Bibliography</b>	<b>3</b>

## Chapter 1

# Introduction and Context

[Powerstack]

## **Appendix A**

# **Appendix Title**

# Bibliography

- [1] Caspar Wackerle. *PowerStack: Automated Kubernetes Deployment for Energy Efficiency Analysis*. GitHub repository. 2025. URL: <https://github.com/casparwackerle/PowerStack>.