



ADA Trading Bot - Komplettes Setup

Setup Status: 100% Abgeschlossen  | **Kosten:** 7,23€/Monat | **Server:** 91.99.11.170



Umgebungsübersicht



Lokale Windows Umgebung

Python 3.11.8 Environment Aktiv

Virtual Environment:
c:\freeding\tbot052025\venv
Packages: ccxt, pandas, numpy, requests,
cryptography

R 4.4.1 "Race for Your Life" Aktiv

Packages: tidyverse, quantmod, TTR, plotly,
forecast
Library: Local R win-library/4.4

VS Code + Jupyter Ready

Notebook: "Lokale Python-Umgebung.ipynb"
Live Bitget API Testing erfolgreich

Git Repository Sync

Repository: c:\freeding\tbot052025\
Versionskontrolle für alle Trading-Scripts



Hetzner Server (Production)

Ubuntu 24.04.2 LTS Live

IP: 91.99.11.170 | 8GB RAM | 40GB SSD
Kernel: 6.8.0-60-generic

Python 3.12.3 + Virtual Env Production

Environment: ~/ada-trading/venv
Identische Packages wie lokal

R 4.5.0 "How About a Twenty-Six" Production

Library: ~/R/x86_64-pc-linux-gnu-library/4.5/
Identische Trading-Pakete

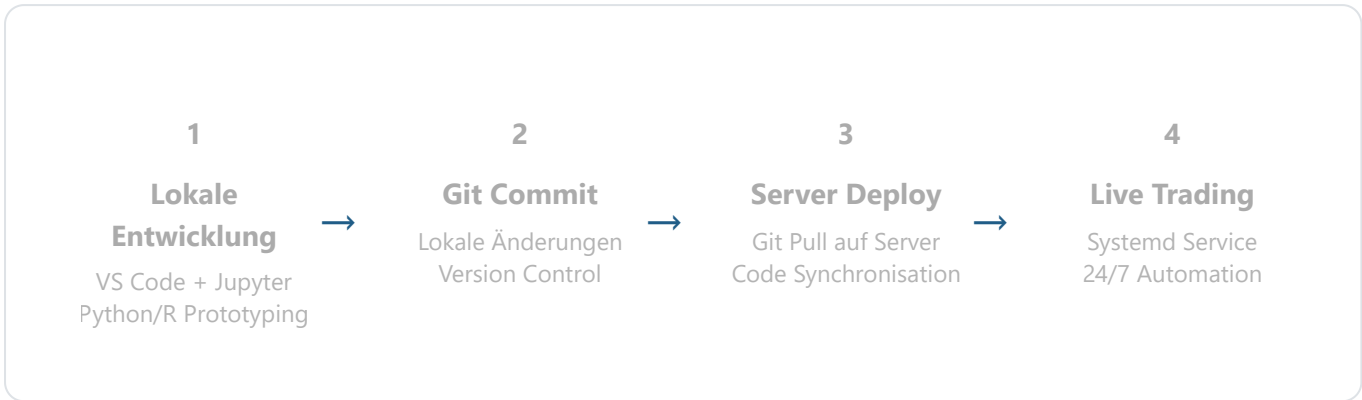
Positron IDE + VNC Ready

VNC: 91.99.11.170:5901
XFCE Desktop für GUI-Development

Trading Bot Service Auto-Start

Systemd Service: ada-trading-bot.service
Auto-Restart + Logging

Development & Deployment Workflow



Zugangs- und Verbindungsdetails

Service	Zugang	Port	Status
SSH Server	ssh trading@91.99.11.170 -p 2222	2222	✅ Gehärtet
VNC Remote Desktop	91.99.11.170:5901	5901	✅ XFCE Ready
Trading Dashboard	http://91.99.11.170:5000	5000	✅ Flask Web UI
Bitget API	Live Market Data	HTTPS	✅ ADA: \$0.6970

Technologie-Stack Übersicht

Analyse (R)

- ✓ tidyverse - Data Manipulation
- ✓ quantmod - Financial Analysis
- ✓ TTR - Technical Trading Rules
- ✓ PerformanceAnalytics - Metrics
- ✓ plotly - Interactive Charts
- ✓ forecast - Time Series

Trading Bot (Python)

- ✓ ccxt - Multi-Exchange Library
- ✓ pandas - Data Processing
- ✓ numpy - Numerical Computing
- ✓ websockets - Real-time Data
- ✓ cryptography - API Security
- ✓ flask - Web Dashboard

Infrastruktur

- ✓ Ubuntu 24.04.2 LTS
- ✓ Systemd Services
- ✓ UFW Firewall
- ✓ Fail2Ban Security
- ✓ VNC Remote Access
- ✓ Automated Backups

Development Tools

- ✓ VS Code + Jupyter
- ✓ Positron IDE
- ✓ Git Version Control
- ✓ SSH Key Management
- ✓ Environment Variables
- ✓ Automated Testing



Kosten & ROI Analyse

Kostenkalkulation

7,23€

Pro Monat

86,76€

Pro Jahr

0,24€

Break-Even/Tag

0,024%

Täglicher Return bei
1.000€

Verzeichnisstruktur Server

```
~/ada-trading/  
├─ r_analysis/ (Strategieentwicklung)  
├─ python_bot/ (Live Trading)  
├─ shared_data/ (R ↔ Python Datenaustausch)  
├─ configs/ (Environment Variables)  
├─ logs/ (System + Bot Logs)  
└─ backups/ (Tägliche Sicherungen)
```



Setup Status: 100% Abgeschlossen



Production Ready | Security Hardened | Fully Automated

Hybrid R/Python Environment | Live Trading Capable | Cost Optimized

Dokumentation erstellt am: 10. Juni 2025

Setup Zeit: 5 Stunden 38 Minuten

Version: 2.0 (Final Production)