

A stylized landscape with layered, geometric mountains in shades of blue and grey. A multi-colored rainbow (red, orange, yellow, red) is positioned on the left side, partially behind the mountains. The background is a solid dark teal color.

# Next-gen Management Console

WildFly Mini Conference  
November 2024

# About me



- ▶ Principal Software Engineer at Red Hat
- ▶ Joined the WildFly team in 2012
- ▶ Work on management capabilities of WildFly
- ▶ Management console lead (HAL)

# Agenda



- ▶ Motivation
- ▶ Architecture
- ▶ Highlights
- ▶ Demo
- ▶ How to get involved
- ▶ Q&A

# Motivation



- ▶ Current codebase is *pretty old*
- ▶ Some dependencies are soon EOL
- ▶ Still on PatternFly 3
- ▶ No common code base for on premise and cloud

# Architecture



- ▶ Java 11 → Java 17
- ▶ J2CL
- ▶ Crysknife CDI
- ▶ Elemento, PatternFly Java
- ▶ Maven, Parcel, NPM

haIOP

haIOS

Resources

Meta

UI

Themes

HAL Foundation

Crysknife CDI

Flow

Database

DMR

Config

PatternFly Java

Elemento

J2CL

# Highlights / Dashboard



- ▶ Quick overview
- ▶ Multiple cards
- ▶ Get involved: [github.com/hal/foundation/issues/71](https://github.com/hal/foundation/issues/71)

# WildFly Application Server

Dashboard

## Details

### Name

WildFly

### Version

34.0.0.Final

### Console version

4.0.0.SNAPSHOT

### Operation mode

STANDALONE

### Management version

27.0.0

### Stability

community

## Host

### Name

Red Hat Enterprise Linux 9.4 (Plow)

### Architecture

amd64

### Cores

4

## JVM

### Name

OpenJDK 64-Bit Server VM

### Version

11.0.24

### Vendor

Eclipse Adoptium

## server.log

3 warnings

## Health

server-state ↑suspend-state ↑empty-readiness-checks ↑empty-startup-checks ↑boot-errors ↑deployments-status ↑empty-liveness-checks ↑

## No deployments

This server contains no deployments.

## General Resources

[WildFly homepage](#)[WildFly documentation](#)[Model reference](#)[Latest news](#)

## Get Help

[Getting started](#)[WildFly guides](#)[Join the forum](#)[Join Zulip chat](#)



# Highlights / Model Browser



- ▶ Search for / go to resources
- ▶ Follow capability references
- ▶ Filters by name, type, status and mode
- ▶ Better expression support
- ▶ Execute operations

## transactions

The configuration of the transaction subsystem.

Data Attributes Operations Capabilities

Q Filter by name Type 3 Status Mode 25 / 39 attributes



Type Boolean x Numeric x String x + Status Not deprecated x + Mode Configuration x + Clear all filters

Default Timeout	300 SECONDS
Enable Tsm Status	<input type="checkbox"/>
JDBC Action Store Drop Table	<input type="checkbox"/>
JDBC Action Store Table Prefix	undefined
JDBC Communication Store Drop Table	<input type="checkbox"/>
JDBC Communication Store Table Prefix	undefined
JDBC State Store Drop Table	<input type="checkbox"/>
JDBC State Store Table Prefix	undefined
JDBC Store Datasource	undefined
Journal Store Enable Async IO	<input type="checkbox"/>
JTS	<input type="checkbox"/>
Maximum Timeout	31536000 SECONDS
Node Identifier	<code>_\${jboss.tx.node.id}_</code>
Object Store Path	tx-object-store
Object Store Relative To	jboss.server.data.dir
Process ID Socket Binding	undefined
Process ID Socket Max Ports	10

- > io
- > jaxrs
- > jca
- > jgroups
- > jmx
- > jpa
- > logging
- > messaging-activemq
- > metrics
- > microprofile-config-smallrye
- > microprofile-fault-tolerance-smallrye
- > microprofile-health-smallrye
- > microprofile-jwt-smallrye
- > microprofile-openapi-smallrye
- > microprofile-telemetry
- > naming
- > opentelemetry
- > remotng
- > request-controller
- > resource-adapters
- > security-manager
- > **transactions**
- > undertow
- > weld
- > system-property



Demo

# Get Involved



- ▶ Get the code: [github.com/hal/foundation](https://github.com/hal/foundation)
- ▶ Start [contributing](#)
- ▶ Get involved with the [dashboard](#)
- ▶ Join the discussions on the [WildFly Google group](#), or chat with us on the Zulip [HAL](#) channel



Questions