



Next-gen Management Console

WildFly Community Call
December 2025

About me



- ▶ Software Engineer at IBM
- ▶ 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 17
- ▶ J2CL
- ▶ Crysknife CDI
- ▶ Elemento, PatternFly Java
- ▶ Maven, Parcel, NPM

halOP

halOS

Crysknife CDI

Resources

Meta

UI

Themes

HAL Foundation

Flow

Database

DMR

Config

PatternFly Java

Elemento

J2CL

Highlights / Dashboard



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



Dashboard

Deployments

Tasks

Configuration

Runtime

Management model



local-38

WildFly Application Server

Overview

Product Name

WildFly

Product Version

38.0.1.Final

Name

d5275dd57d82

Console Version

0.0.0

Stability

community

Operation Mode

STANDALONE

Config File

standalone-microprofile.xml

Uptime

8 days, 1 hour, 40 minutes, 57 seconds

Configuration state

OK

Running Mode

NORMAL

Server State

RUNNING

Suspend State

RUNNING

Host

Name

Red Hat Enterprise Linux 9.7 (Plow)

Architecture

aarch64

Cores

5

JVM

Name

OpenJDK 64-Bit Server VM

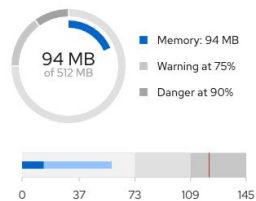
Version

21.0.9

Vendor

Eclipse Adoptium

Memory & Threads



server.log

1 error

[Show log file](#)

Health

- empty-readiness-checks
- server-state
- suspend-state
- deployments-status
- empty-startup-checks
- empty-liveness-checks



No deployments

This server contains no deployments.

General Resources

[WildFly homepage](#)

Get Help

[Getting started](#)

Highlights / Tasks



- ▶ Use case centric
- ▶ Complete complex tasks quickly
- ▶ Combine multiple steps that involve configuring different subsystems and resources
- ▶ Get involved: [hal/foundation/issues/71](https://issues.jboss.org/browse/HAL-71)



Tasks

Tasks enable you to complete complex tasks quickly and easily. They combine multiple steps that involve configuring different subsystems and resources.



Data source

Create and configure XA and non-XA data sources.

[Launch](#)[Learn more](#)

Logging

Configure the logging subsystem, change the log level of the ROOT and other categories and apply the changes to the CONSOLE and other handlers.

[Launch](#)[Learn more](#)

Management SSL

Enable / disable SSL for a given management interface. By default the http-interface is used, but other management interface can be targeted as well.

[Launch](#)[Learn more](#)

Reverse proxy

Create a reverse proxy in the Undertow subsystem.

[Launch](#)[Learn more](#)

SSL

Enable / disable HTTPS for an Undertow HTTP server. By default the default-server is used, but other server names can be specified as well.

[Launch](#)[Learn more](#)

Statistics

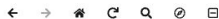
Enable / disable statistics for all or a selection of subsystems.

[Launch](#)[Learn more](#)

Highlights / Model Browser



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



- > microprofile-fault-tolerance-smallrye
- > microprofile-health-smallrye
- > microprofile-jwt-smallrye
- > microprofile-openapi-smallrye
- > microprofile-telemetry
- > naming
- > opentelemetry
- > remoting
- > request-controller
- > resource-adapters
- > security-manager
- > transactions
- > undertow
 - > application-security-domain
 - > buffer-cache
 - > byte-buffer-pool
 - > configuration
 - > server
 - > default-server
 - > ajp-listener
 - > host
 - > http-listener
 - default
 - > https-listener
 - > servlet-container
 - > weld
 - > system-property

> subsystem-undertow > server-default-server > http-listener-default

default

http listener

Data Attributes Operations Capabilities

Filter by name

Type 3

Status

Mode

41 / 49 attributes



Type

Boolean

Numeric

String



[Clear all filters](#)

Allow Encoded Slash



Allow Equals In Cookie Value



Allow Unescaped Characters In URL



Always Set Keep Alive



Buffer Pipelined Data



Buffer Pool



default provided by 1 resource

Certificate Forwarding



Decode URL



Enable HTTP/2



HTTP/2 Enable Push



HTTP/2 Header Table Size

4096 BYTES

HTTP/2 Initial Window Size

65535 BYTES

HTTP/2 Max Concurrent Streams

undefined

HTTP/2 Max Frame Size

16384 BYTES

HTTP/2 Max Header List Size

undefined

Max Buffered Request Size

16384 BYTES

Max Connections

undefined



Demo

Get Involved



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

Additional Resources



- ▶ Crysknife: <https://github.com/crysknife-io/crysknife>
- ▶ Elemento: <https://github.com/hal/elemento>
- ▶ PatternFly Java: <https://github.com/patternfly-java>
- ▶ wado: <https://github.com/hpehl/wado>



Questions