

The background features a stylized graphic of a rainbow arching over a range of mountains. The mountains are depicted in shades of grey and blue, with the peaks partially obscured by the rainbow's colors. The sky above the mountains is a vibrant teal.

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

Crysknife CDI

HAL Foundation

halOS

halOP

Resources

Meta

UI

Themes

Flow

Database

DMR

Config

PatternFly Java

Elemento

J2CL

Highlights / Dashboard



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



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-micropack.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](#)



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](#)

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

← → Home Search Reset Exit

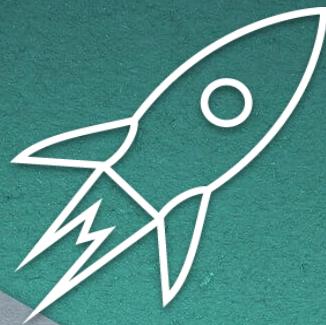
- > microprofile-fault-tolerance-smalrye
- > microprofile-health-smalrye
- > microprofile-jwt-smalrye
- > microprofile-openapi-smalrye
- > microprofile-telemetry
- > naming
- > opentelemetry
- > remoting
- > request-controller
- > resource-adapters
- > security-manager
- > transactions
- > undertow
 - > 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

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

default

http listener

Data Attributes Operations CapabilitiesFilter by name Type 3 Status Mode 41 / 49 attributesType Boolean Numeric String Status Not deprecated Mode ConfigurationClear all filtersAllow 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 resourceCertificate Forwarding Decode URL Enable HTTP/2 HTTP/2 Enable Push HTTP/2 Header Table Size 4096 BYTESHTTP/2 Initial Window Size 65535 BYTESHTTP/2 Max Concurrent Streams undefinedHTTP/2 Max Frame Size 16384 BYTESHTTP/2 Max Header List Size undefinedMax Buffered Request Size 16384 BYTESMax 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