

Project Name	...
Online team meeting	https://fau.zoom-x.de/j/3913240515?pwd=TWo2NkZmaVZFWDVKckNKVzQyRG4zdz09
Production system (if any)	TBT
Test system (if any)	TBT
GitHub repository	https://github.com/amosproj/amos2025ws01-opensearch-load-tester
GitHub feature board	https://github.com/orgs/amosproj/projects/89/views/2
GitHub imp-squared backlog	https://github.com/orgs/amosproj/projects/93/views/1
Team T-shirt (white)	https://www.shirtinator.de/en/s/nasAq-u7RjO3FQ4BPPUSLw
Team T-shirt (black)	https://www.shirtinator.de/en/s/0VuwTYlwRviJfsV7ERwamA
Additional materials	...
Team mailing list	oss-amos-proj1@lists.fau.de

Last Name	First Name	GitHub User Name	Email Address
Lorenz	Alexander	Hydraneut	alexander.lorenz@fau.de
Buchner	Lea	LeaBuchner	lea.buchner@fau.de
Engelhard	Dirk	engelharddirk	dirk.engelhard@fau.de
Strachwitz	Carlo	Carlit0	carlostrachwitz@gmail.com
Belz	Sara	SaraBelz	sara.belz@fau.de
Becker	Eugen	BeEugen	eugen.becker@fau.de
Hofmann	Leo	Leolingio	leohof23@gmail.com
Knecht	Sebastian	SeboKnt	sebastian.knecht@fau.de

#	Meeting Day	Product Owner		Software Developer	Release Manager	Scrum Master	Comment
		Review	Planning				
1	2025-10-15	both	both	Everyone else	N/A	Alexander Lorenz	
2	2025-10-22	Lea Buchner	Dirk Engelhard	Everyone else	N/A	Alexander Lorenz	
3	2025-10-29	Dirk Engelhard	Lea Buchner	Everyone else	Carlo Strachwitz	Alexander Lorenz	
4	2025-11-05	Lea Buchner	Dirk Engelhard	Everyone else	Carlo Strachwitz	Alexander Lorenz	Build process review
5	2025-11-12	Dirk Engelhard	Lea Buchner	Everyone else	Leo Hofmann	Alexander Lorenz	
6	2025-11-19	Lea Buchner	Dirk Engelhard	Everyone else	Sara Belz	Alexander Lorenz	
7	2025-11-26	Dirk Engelhard	Lea Buchner	Everyone else	Sebastian Knecht	Alexander Lorenz	Mid-term due
8	2025-12-03	Lea Buchner	Dirk Engelhard	Everyone else	Eugen Becker	Alexander Lorenz	
9	2025-12-10	Dirk Engelhard	Lea Buchner	Everyone else	Eugen Becker	Alexander Lorenz	
10	2025-12-17	Lea Buchner	Dirk Engelhard	Everyone else	Leo Hofmann	Alexander Lorenz	Team Workshop
11	2026-01-07	Dirk Engelhard	Lea Buchner	Everyone else	Sara Belz	Alexander Lorenz	No class but team meeting
12	2026-01-14	Lea Buchner	Dirk Engelhard	Everyone else	Sebastian Knecht	Alexander Lorenz	
13	2026-01-21	Dirk Engelhard	Lea Buchner	Everyone else	Leo Hofmann	Alexander Lorenz	
14	2026-01-28	Lea Buchner	Dirk Engelhard	Everyone else	Sara Belz	Alexander Lorenz	
15	2026-02-04	Dirk Engelhard	Lea Buchner	Everyone else	Sebastian Knecht	Alexander Lorenz	Demo day!+retrospective
Product owners, software developers, and Scrum Master are set and ideally don't change over time; the critical part is the Release Manager role you need to define here							

Goals	achieve the project goal
	get inside into the scrum and agile process
	improve practical development skills
	create something worth using
Meeting norms	everybody should feel safe
	be punctual
	Absence from meetings should be (if possible) declared a day in advance
Working norms	open door policy (everybody should be allowed to do mistakes)
	maintaining good documentation
	Backlog items are assigned by the developers themselves before they work (outside the team meeting)
Coordination norms	every Backlog item has at least 1 dedicated person (if work has already started on it)
	Contributors assign themselves to backlog items
Communication norms	meetings take place in English unless stated otherwise
	stick to the topic of the channel
	We use discord as our primary method of communication
	we check discord at least once a day (and react if needed)
	We use Whatsapp for urgent communication (less than an hour)
Consideration norms	If you see something say something
	We decide with majority vote
	If we think we could help we extend it
Cont. improvement norms	constructive feedback is always welcome
	We jointly review the happiness index
Rewards	celebrate successes
	Appreciation and praise
Sanctions	apologize sincerely
	and find a funny way to apologize
Signatures	
Scrum Master	Alexander Lorenz
Product owner	Dirk Engelhard
Product owner	Lea Buchner
Software developer	Leo Hofmann
Software developer	Eugen Becker
Software developer	Sebastian Knecht
Software developer	Sara Belz
Software developer	Carlo Strachwitz

Product Vision	Project Mission
The reason of existence of the envisioned product (beyond this project).	The mission of this particular project (in the context of the product vision).

Term	Definition

Sprint #	Sprint goal
1	None
2	None
3	None
4	Optional
5	Write your sprint goal here
6	
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Sprint #	Story Points Realized
1	
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	PLEASE CREATE THE VELOCITY CHART ON A NEW TAB USING THE DATA FROM THIS TAB

Sprint #	Story Points Realized
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Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
Release						
Total			0	0		
Sprints						
1			0	0	0	0
2			0	0	0	0
3			0	0	0	0
...				0		0
Features						
1						
2						
3						
		PLEASE CREATE THE BURNDOWN CHART ON A NEW TAB USING THE DATA FROM THIS TAB				

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
Release						
Total			0	0		
Sprints						
1			0	0	0	0
2			0	0	0	0
3			0	0	0	0
...				0		0
Features						
1						
2						
3						
		PLEASE CREATE THE BURNDOWN CHART ON A NEW TAB USING THE DATA FROM THIS TAB				

[illegible]

Type	Link / reference

#	Context	Name	Version	License	Comment
1	environment	Eclipse Temurin OpenJDK	25 (LTS)	GPL-2.0 with Classpath Exception	Java runtime used for building and running the application
2	environment	Docker	28.5.1	Apache-2.0	Container environment for running OpenSearch and Load Tester services
3	tool	Apache Maven	3.9.11	Apache-2.0	Build automation and dependency management tool
4	library	spring-boot-starter	3.5.7	Apache-2.0	Entry point for Spring Boot dependency management
5	library	spring-boot	3.5.7	Apache-2.0	Core framework providing auto-configuration and runtime support
6	library	spring-context	6.2.12	Apache-2.0	Dependency injection and application context management
7	library	spring-aop	6.2.12	Apache-2.0	Aspect-oriented programming support
8	library	spring-beans	6.2.12	Apache-2.0	Bean creation and configuration framework
9	library	spring-expression	6.2.12	Apache-2.0	Spring Expression Language (SpEL) processing
10	library	spring-boot-autoconfigure	3.5.7	Apache-2.0	Automatically configures components based on classpath
11	library	spring-boot-starter-logging	3.5.7	Apache-2.0	Default logging configuration using Logback
12	library	logback-classic	1.5.20	EPL-1.0	Logging backend implementing SLF4J API
13	library	logback-core	1.5.20	EPL-1.0	Core utilities for Logback logging
14	library	log4j-to-slf4j	2.24.3	Apache-2.0	Redirects Log4j 2 logs to SLF4J
15	library	jul-to-slf4j	2.0.17	MIT	Bridges java.util.logging to SLF4J
16	library	jakarta.annotation-api	2.1.1	EPL-2.0	Jakarta annotations used by Spring components
17	library	spring-core	6.2.12	Apache-2.0	Core utilities and classloading framework of Spring
18	library	spring-jcl	6.2.12	Apache-2.0	Logging abstraction used internally by Spring
19	library	snakeyaml	2.4	Apache-2.0	YAML parser for configuration files
20	library	micrometer-core	1.15.5	Apache-2.0	Core metrics collection API
21	library	micrometer-commons	1.15.5	Apache-2.0	Shared utilities for metrics instrumentation
22	library	micrometer-observation	1.15.5	Apache-2.0	Captures timing and observation data for metrics
23	library	HdrHistogram	2.2.2	CC0-1.0	High-resolution latency measurement library
24	library	LatencyUtils	2.0.3	CC0-1.0	Helper utilities for latency tracking
25	library	micrometer-registry-prometheus	1.15.5	Apache-2.0	Exposes Micrometer metrics to Prometheus
26	library	prometheus-metrics-core	1.3.10	Apache-2.0	Core Prometheus metrics collection
27	library	prometheus-metrics-model	1.3.10	Apache-2.0	Data model for Prometheus metrics
28	library	prometheus-metrics-config	1.3.10	Apache-2.0	Configuration utilities for Prometheus metrics
29	library	prometheus-metrics-tracer-common	1.3.10	Apache-2.0	Common tracing utilities for Prometheus exporters
30	library	prometheus-metrics-exposition-formats	1.3.10	Apache-2.0	Serialization formats for Prometheus metrics
31	library	prometheus-metrics-exposition-textformats	1.3.10	Apache-2.0	Text exposition format for Prometheus

#	Context	Name	Version	License	Comment
32	library	lombok	1.18.34	MIT	Generates boilerplate code (getters/setters, builders, etc.)
33	library	opensearch-rest-high-level-client	2.16.0	Apache-2.0	REST client for interacting with OpenSearch clusters
34	library	opensearch	2.16.0	Apache-2.0	Core OpenSearch library
35	library	opensearch-common	2.16.0	Apache-2.0	Common interfaces and utilities for OpenSearch modules
36	library	opensearch-core	2.16.0	Apache-2.0	Core APIs for OpenSearch operations
37	library	opensearch-compress	2.16.0	Apache-2.0	Compression utilities used internally by OpenSearch
38	library	zstd-jni	1.5.5-5	BSD-2-Clause	Java bindings for Zstandard compression
39	library	opensearch-secure-sm	2.16.0	Apache-2.0	Security manager integration for OpenSearch
40	library	opensearch-x-content	2.16.0	Apache-2.0	Serialization/deserialization utilities in OpenSearch
41	library	jackson-dataformat-smile	2.19.2	Apache-2.0	Jackson module for Smile binary JSON
42	library	jackson-dataformat-cbor	2.19.2	Apache-2.0	Jackson module for CBOR binary JSON
43	library	opensearch-geo	2.16.0	Apache-2.0	Geospatial data and query support for OpenSearch
44	library	opensearch-telemetry	2.16.0	Apache-2.0	Telemetry and monitoring features for OpenSearch
45	library	lucene-core	9.11.1	Apache-2.0	Core search and indexing engine powering OpenSearch
46	library	lucene-analysis-common	9.11.1	Apache-2.0	Text analysis and tokenization utilities
47	library	lucene-backward-codecs	9.11.1	Apache-2.0	Backward-compatible codecs for old Lucene versions
48	library	lucene-grouping	9.11.1	Apache-2.0	Implements result grouping and field collapsing
49	library	lucene-highlighter	9.11.1	Apache-2.0	Highlighting support for search result snippets
50	library	lucene-join	9.11.1	Apache-2.0	Supports join queries between documents
51	library	lucene-memory	9.11.1	Apache-2.0	In-memory index structures for fast search
52	library	lucene-misc	9.11.1	Apache-2.0	Miscellaneous utilities and experimental features
53	library	lucene-queries	9.11.1	Apache-2.0	Advanced query utilities and filters
54	library	lucene-queryparser	9.11.1	Apache-2.0	Parses textual queries into Lucene queries
55	library	lucene-sandbox	9.11.1	Apache-2.0	Experimental Lucene modules
56	library	lucene-spatial-extras	9.11.1	Apache-2.0	Spatial/geographic query utilities
57	library	lucene-spatial3d	9.11.1	Apache-2.0	3D geospatial shapes and indexing
58	library	lucene-suggest	9.11.1	Apache-2.0	Suggestion/autocomplete engine
59	library	opensearch-cli	2.16.0	Apache-2.0	Command-line tools for OpenSearch management
60	library	jopt-simple	5.0.4	MIT	Command-line option parser
61	library	joda-time	2.12.7	Apache-2.0	Date and time handling library
62	library	t-digest	3.2	Apache-2.0	Statistical distribution estimation for percentiles
63	library	log4j-api	2.24.3	Apache-2.0	Core Log4j 2 API

#	Context	Name	Version	License	Comment
64	library	log4j-jul	2.24.3	Apache-2.0	Bridge for Java Util Logging to Log4j
				LGPL-2.1-or-later OR	
65	library	jna	5.13.0	Apache-2.0	Java Native Access for system-level operations
66	library	jzlib	1.1.3	BSD-4-Clause	Java implementation of zlib compression
67	library	reactor-core	3.7.12	Apache-2.0	Reactive programming support (Project Reactor)
68	library	reactive-streams	1.0.4	MIT-0	Minimal reactive streams specification
69	library	protobuf-java	3.22.3	BSD-3-Clause	Google Protocol Buffers serialization
70	library	opensearch-rest-client	2.16.0	Apache-2.0	Low-level REST client for OpenSearch
71	library	httpclient	4.5.14	Apache-2.0	Apache HTTP client for network communication
					Core transport components for Apache HTTP client
72	library	httpcore	4.4.16	Apache-2.0	
73	library	httpasyncclient	4.1.5	Apache-2.0	Asynchronous HTTP client for non-blocking I/O
74	library	httpcore-nio	4.4.16	Apache-2.0	NIO transport layer for asynchronous HTTP
75	library	commons-codec	1.18.0	Apache-2.0	Utility library for encoding/decoding formats
76	library	commons-logging		1.2 Apache-2.0	Lightweight logging abstraction
77	library	mapper-extras-client	2.16.0	Apache-2.0	Additional mapping features for OpenSearch
78	library	parent-join-client	2.16.0	Apache-2.0	Supports parent-child relationships in OpenSearch
79	library	aggs-matrix-stats-client	2.16.0	Apache-2.0	Advanced aggregation statistics module
80	library	rank-eval-client	2.16.0	Apache-2.0	Ranking evaluation tools for OpenSearch
81	library	lang-mustache-client	2.16.0	Apache-2.0	Template rendering support (Mustache)
82	library	compiler	0.9.14	Apache-2.0	Annotation processing and compilation utilities
83	library	jackson-dataformat-yaml	2.19.2	Apache-2.0	YAML serialization and deserialization
84	library	jackson-databind	2.19.2	Apache-2.0	Object-JSON mapping framework
					Annotations for Jackson
85	library	jackson-annotations	2.19.2	Apache-2.0	serialization/deserialization
86	library	jackson-core	2.19.2	Apache-2.0	Core streaming JSON processor
87	library	slf4j-api	2.0.17	MIT	Unified logging abstraction layer

Last Name	First Name	Value					
Lorenz	Alexander	5		5.00	OK		
Buchner	Lea	5					
Engelhard	Dirk						
Strachwitz	Carlo						
Belz	Sara			0	No size		
Becker	Eugen			1	Trivial size		
Hofmann	Leo			2	Small size		
Knecht	Sebastian			3	Medium size		
				5	Large size		
				8	Very large size		
				13	Too large (size)		
How to play planning poker							
1. Everyone type their number into their value field, don't hit return yet							
2. Someone, perhaps a product owner, count down 3.. 2.. 1..							
3. Then, everyone hit return to submit their value							