

# **ORT Server**Progress Update & Demo

Martin Nonnenmacher 09.04.2025



## **Overview**



#### Motivation

### Building a scalable ORT service

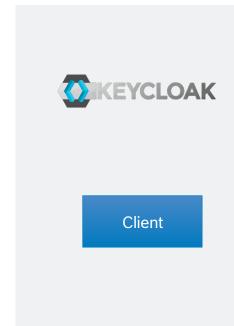
#### **REST API Scalability Database Credentials** Central database for all ORT Decouple from limitations of REST API eases integration Credential management via CI Pipelines with other services results API ORT is currently mainly deployed The REST API (with OpenAPI Instead of separate ORT result Running a central ORT service using CI Pipelines like Jenkins, Spec) allows to integrate the files for each run, the server also requires to manage the GitHub Actions, or Azure ORT Server with other services. stores all results in a central required credentials for analyzing database. This enables Pipelines. This limits scaling For example, the CI integrations the projects. With ORT Server, options as these pipelines are can simply call the API instead of performance optimizations and users can manage their credentials via the REST API. not designed to run a service. implementing a complex ORT data analysis, for example, to find workflow. out which projects use a specific dependency.

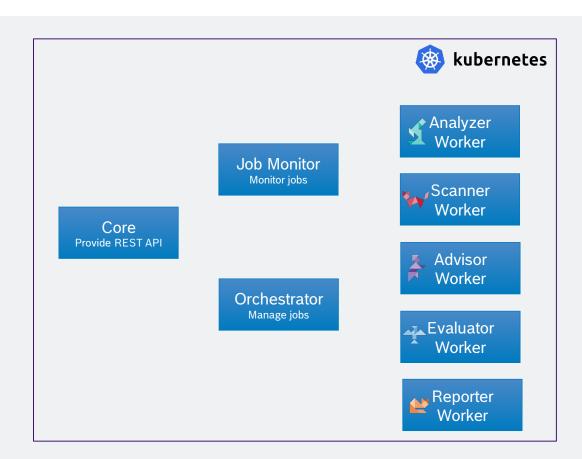


### **Architecture**



## Architecture Components



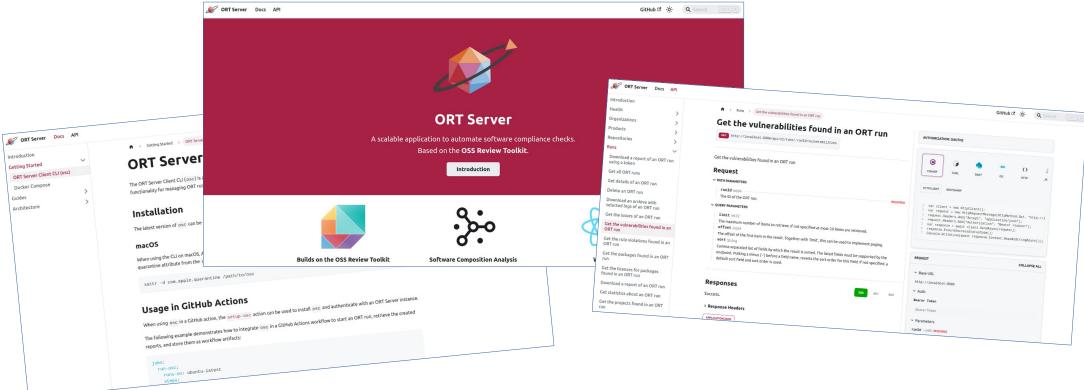






## **Progress Update**

## Progress Update Documentation Website



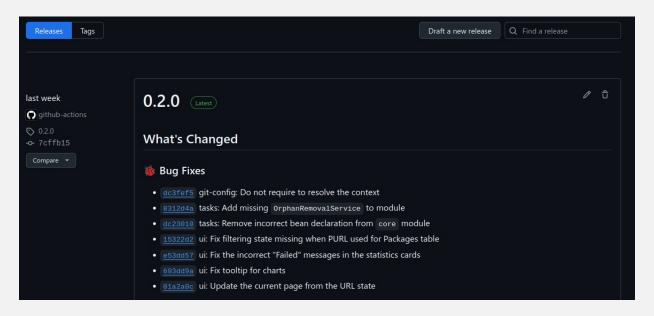
https://eclipse-apoapsis.github.io/ort-server/



### **Progress Update**

### Passed Eclipse Foundation Progress Review

- The project passed the Eclipse Foundation progress review and can now make official releases
- Weekly releases on Tuesday, integrating the ORT release from the week before
- Expect breaking changes until release 1.0.0, current version is 0.2.0





## Progress Update Data Retention

- Automatic deletion of ORT runs after configurable time
  - For example, delete all runs older than 90 days
  - Ensure that database does not keep growing
- Will be improved for more granular control
  - For example, to always keep the results for releases



# Progress Update CLI & CI Integration

- Added a native CLI for Linux, Mac, and Windows
  - Trigger and get status of ORT runs
  - Download logs and reports

- Added a GitHub action to setup the CLI
  - Makes it easy to write GitHub workflows that interact with the server

```
jobs:
 run-osc:
   runs-on: ubuntu-latest
   stens:
     - name: Setup OSC
       uses: eclipse-apoapsis/setup-osc@main
        osc-version: 0.1.0-RC16
        base-url: https://ort-server.example.com
        token-url: https://auth.example.com/realms/prod/protocol/openid-connect/token
        client-id: ort-server-prod
        username: user
        password: ${{ secrets.ORT SERVER PASSWORD }}
     - name: Start ORT run
      run: I
        osc runs start --parameters '{
          "revision": "${{ github.head_ref || github.ref_name }}",
          "jobConfigs": {
            "analyzer": {},
            "advisor": {},
            "evaluator": {},
                                                         ) osc runs info --run-id=154034
            "scanner": {},
                                                         ORT Run Information
            "reporter": {},
                                                                                     154034
            "notifier": {}
                                                            Repository ID
                                                                                     1321
                                                            Index
                                                                                     1375
       env:
                                                                                     FINISHED WITH ISSUES
                                                            Status
        OSC REPOSITORY ID: 42
                                                                                     2025-03-31T08:26:13Z
                                                            Created
        OSC_RUNS_START_WAIT: true # Block the runner until the
                                                            Revision
                                                                                     main
                                                                                     Marcel Bochtler (
                                                            User
     - name: Download Reports
      run: |
        osc runs download reports
                                                          Job Status
                                                            Analyzer Status
                                                                                     FINISHED
        OSC DOWNLOAD REPORTS FILE NAMES: 'scan-report-web-app
                                                            Advisor Status
                                                                                     FINISHED
        OSC_DOWNLOAD_REPORTS_OUTPUT_DIR: './reports'
                                                            Scanner Status
                                                                                     FINISHED
                                                            Evaluator Status
                                                                                     FINISHED WITH ISSUES
                                                            Reporter Status
                                                                                     FINISHED
                                                                                     FINISHED
                                                            Notifier Status
```



## Progress Update Web Frontend

#### Demo



**Questions?** 

