Sol4Cloud AlinkServer documentation

Version: 0.1.2

Date: July 7th, 2026

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ALinkServer Introduction

We have dreamed of a world in which you could just start using a solution with no upfront purchase - simply pay-as-you-go fully managed by Amazon AWS. No hassle with sales men and procurement - simply start using the solution and consume it off your AWS commitment.

Our first solution: ALinkServer - Archive your SAP system data and documents directly to AWS S3 by deploying a cloud-native pay-as-you-go ALinkServer implementing SAP ArchiveLink 4.6 interface specification

AlinkServer is SAP ArchiveLink 4.6 implementation of SAP ArchiveLink repository that stores all SAP archived content directly in as objects in AWS S3 buckets. AlinkServer configuration enables the admin to configure a dedicated S3 bucket per SAP ArchiveLink repository.

One AlinkServer server configuration supports identical SAP repository IDs across multiple SAP landscapes by specifying a “Runtime environment” parameter in the configuration that is also present in the SAP ArchiveLink repository URL in SAP configuration. See chapter Configuration for more details.

AlinkServer can be easily launched as service on AWS Elastic Container Service. First launch of the AlinkServer application will walk admin user through basic server setup. AlinkServer stores all content related metadata directly as S3 object metadata instead of a traditional relational database. Small amount of AlinkServer configuration data (server configuration and ArchiveLink repositories configurations) is stored in AWS DynamoDB. Admin user names and passwords are stored in AWS Secrects Manager. See chapter Installation for more details.

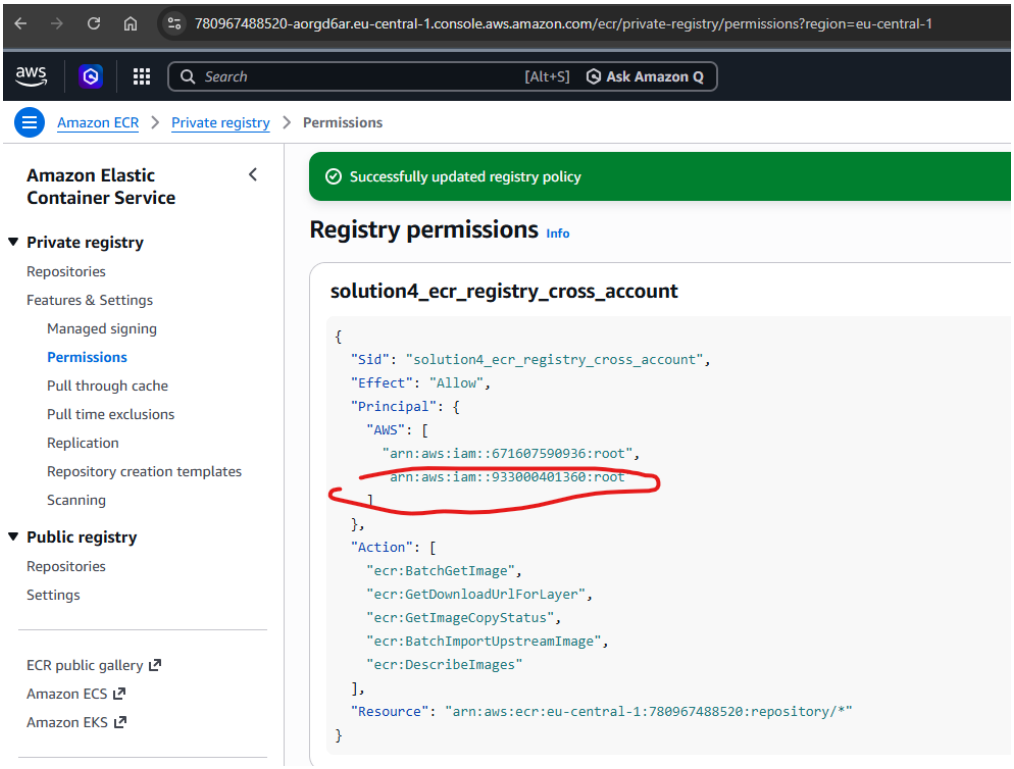
Each AlinkServer container is configured to start two web applications:

1. Main AlinkServer that implements the ArchiveLink functionality and its URLs will be configured in SAP transaction OAC0
2. AlinkServerAdmin process that is used for configuration and administration of the AlinkServer e.g. to create new content repositories, create new admin users etc. AlinkServerAdmin process is also responsible for reporting server container usage to AWS.

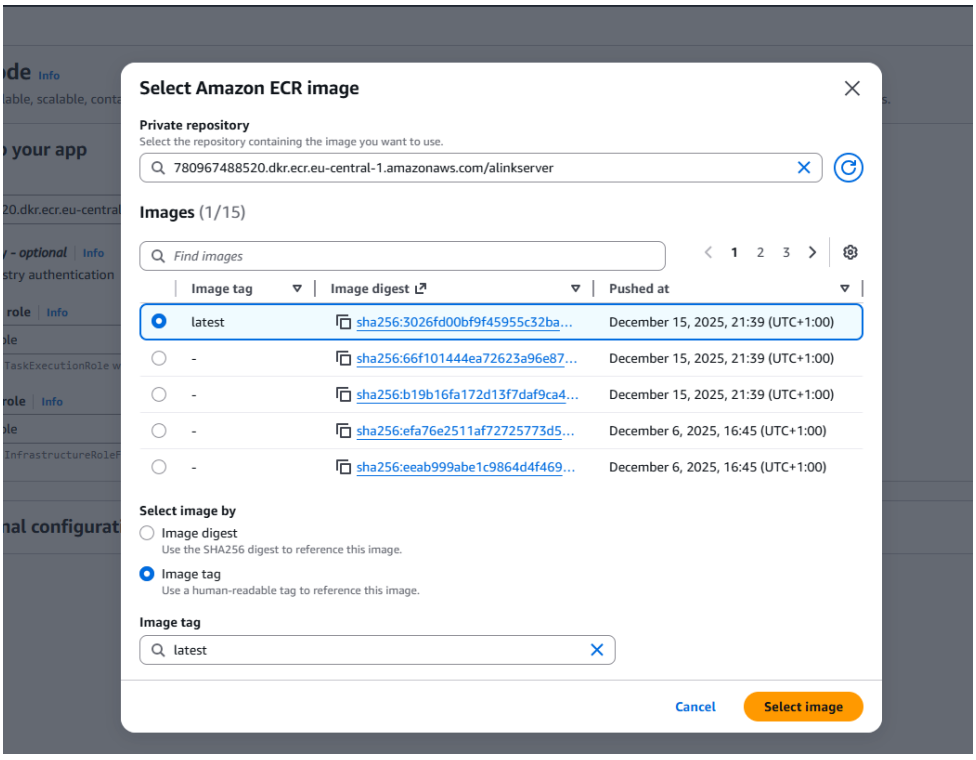
For more details about AlinkServer administration and monitoring see chapter Administration.

Installation

1) (Optional?) In Sol4Cloud account allow ECR registry access by third party service and account by adding account id to the list of allowed permissions:



2) Test in „customer“ account that the repository can be accessed:



3) Create task definition in Elastic Container Service.

- Launch type: AWS Fargate

- OS Linux/x86

- CPU 2, RAM 4GB

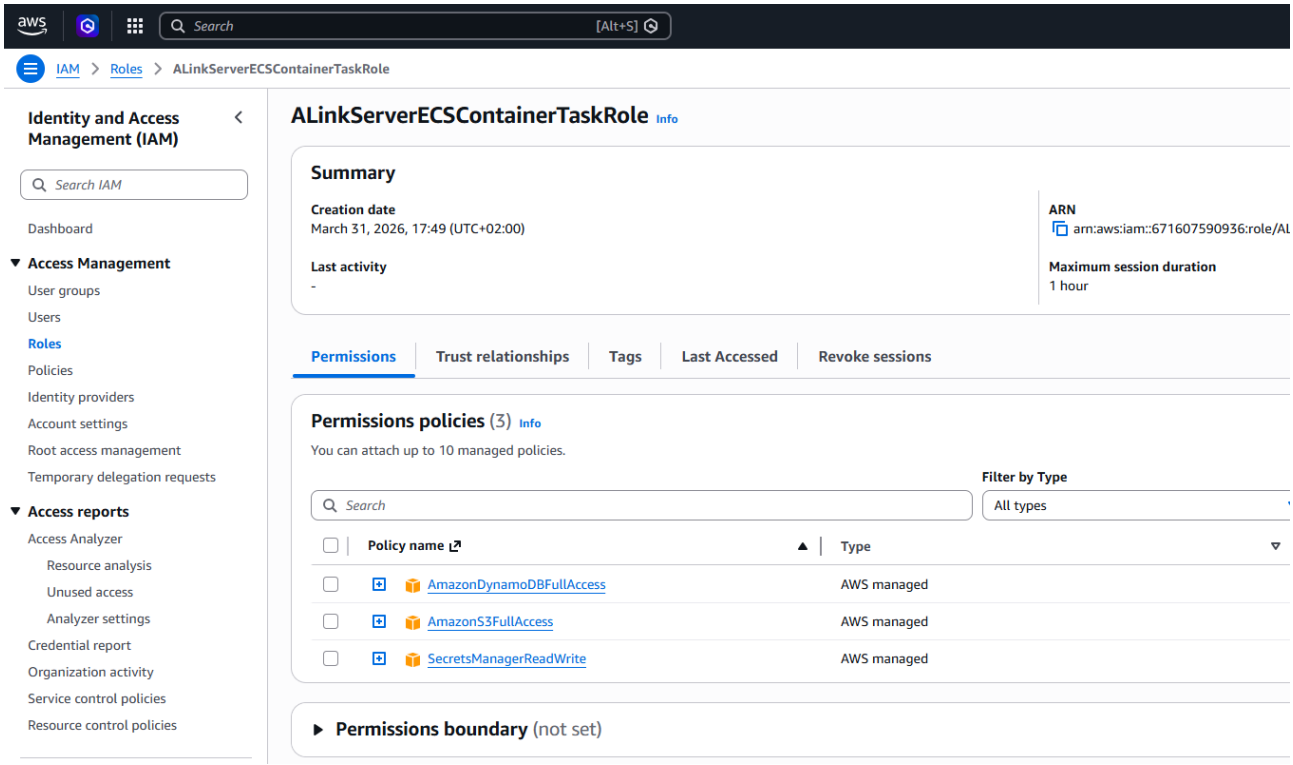
- Container: 780967488520.dkr.ecr.eu-central-1.amazonaws.com/alinkserver:latest

- Container ports:

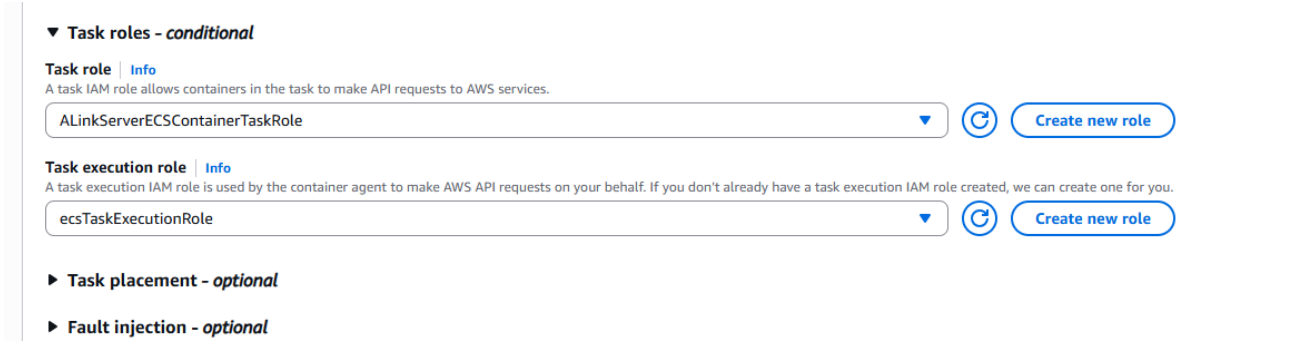
8000 – TCP – alinkserver – HTTP

8001 – TCP – alinkadminserver – HTTP

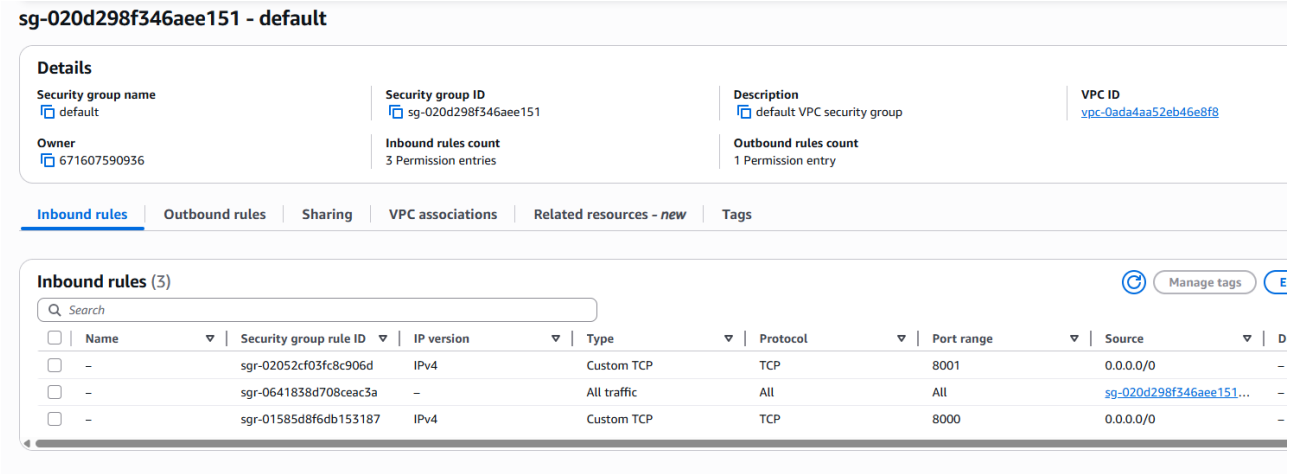
4) Configure Task Role for Task definition. Create new role in IAM/Roles:



Attach the role to Task definition above.



5) Change the SecurityGroup configuration in the network configuration of the Service to allow inbound ports 8000 and 8001:

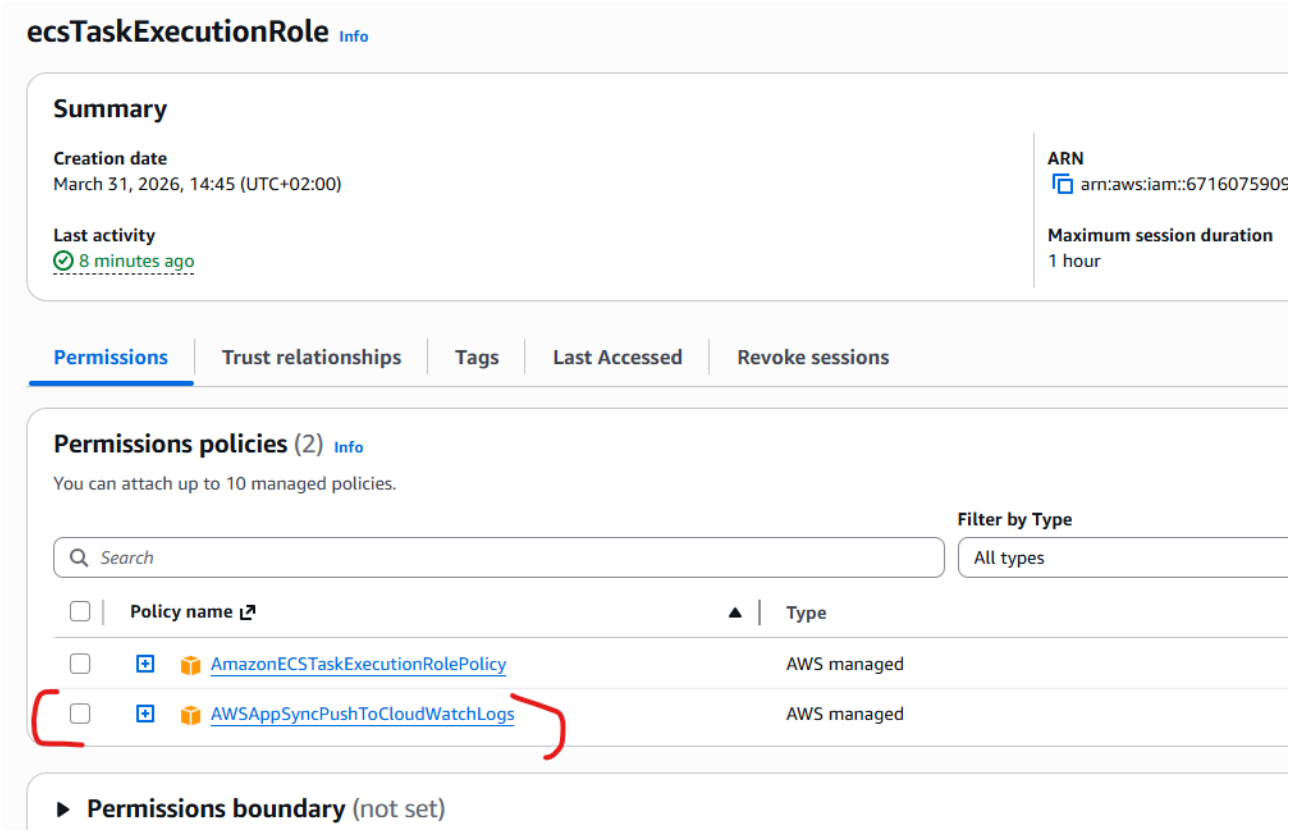


Configuration

Service Connect:

Create new Namespace in AWS Cloud Map

Add CloudWatch permissions to ecsTaskExecutionRole



Administration