ArchiveKeeper Setup Guide

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1. General

This guide describes what AWS components are needed to run the ArchiveKeeper (AK) AMI in AWS, how to configure AK and how to start it.

ArchiveKeeper consists of three applications. The backend with a REST-API (ak-be), an angular frontend (ak-ui) and the key management service (ak-kms). The applications run as docker containers and can be started via a docker-compose config.

This guide is **for Versions 2.5.0-1.0 and greater**. The version number is built from the version of ArchiveKeeper, a hyphen as delimiter and the version for the AMI itself.

2. Pre-Requirements

You need to set up the following to use the AMI.

- Postgres Database (e.g. RDS)
- OAUTH/OIDC (e.g. Cognito User Pool)
 - Lambda for token transformation
- File Storage (e.g. EFS)

You only need to have the following components if AK should be reachable from outside of AWS.

- Hosted zone (Route 53)
- Certificate (AWS Certificate Manager)
- Load balancers (EC2)

If AK is only reachable from inside the AWS or you want to use it just via the REST API, the UI application can be turned off. See section Deactivating the UI for more information.

2.1 Setup other AWS components

This section describes how to set up some of the pre-requirements via AWS services or how to prepare them to use them together with AK if you already have them running.

2.1.1 Postgres Database

If you don't have a Postgres-compatible database yet you can create one via Amazon RDS e.g. a PostgreSQL database with an engine version >= 15.

2.1.2 OAUTH/OIDC

If you don't have a user management yet, go to Amazon Cognito and create a user pool. The pool should have the user attributes email, given name and family name.

We recommend using the Cognito Hosted UI or providing a custom Sign-In UI if you want to use the UI

If you want to create a new user pool you should read App Integration before doing so.



2.1.2.1 App Integration

Create an app client for AK. If you have an existing user pool, you can do so in the tab *App integration*. If you are creating a new user pool you will be asked in the creation process. In the *Hosted UI settings*, you can configure the allowed callback URLs, these are the URLs that the user can be redirected to after authentication. The redirect URL (*oidc.redirectUri*) from ak-ui must be one of the callback URLs.

Besides the callback URL, the Cognito user pool should be set as an identity provider. The OAuth 2.0 grant types need to include *Authorization code grant*. The OpenID Connect scopes need to include *Email, OpenID* and *Profile*.

After creating the app integration the client id needs to be added to the configuration of ak-be and ak-ui (See section Start ArchiveKeeper → Configuration). The client id can be found in the *App client list* of the user pool after creating the app client.

If you adjust an existing app integration instead of creating a new one don't forget to create a domain if the app integration doesn't have one yet.

2.1.2.2 How to configure the roles of a user

In AK the roles of a user define what permissions the user has. There is only 1 predefined role, the role *ADMIN*. You can define additional roles if you want.

Every AK-role needs to have a group in the user pool. The group name needs to be in the form p_[Role name].

To assign a role to a user add the user to the group representing the role.

If you don't create a group p_ADMIN and add at least 1 user to the group you won't be able to use AK. You can find more information about roles and permissions in the user manual or the API documentation.

2.1.2.3 Customize the access token claims

The user pool needs to have advanced security turned on to be able to customize the access token claims. This is needed to bring the token in the form expected by ak-be.

The access token is transformed via a lambda. To connect the lambda and the user pool go to *Advanced security features overview* and edit *Customize access token claims*. Choose the trigger type *Authentication* with *Pre token generation trigger*.

Furthermore, select trigger event version Basic features + access token customization and create a new lambda in the section lambda function.

The lambda can have the default settings (runtime etc.) and should use the following javascript code:



```
exports.handler = async (event) => {
 var claims = {};
 claims["aud"] = event.callerContext.clientId;
 claims["resource_access"] = {};
 claims["resource access"][event.callerContext.clientId] = {};
 claims["resource_access"][event.callerContext.clientId]["roles"] = [];
 var groups = event.request["groupConfiguration"]["groupsToOverride"];
  if (groups && groups.length > 0) {
    claims["resource access"][event.callerContext.clientId]["roles"] = groups;
  if ("email" in event.request["userAttributes"]) {
    claims["email"] = event.request["userAttributes"]["email"];
  if ("given_name" in event.request["userAttributes"]) {
    claims["given name"] = event.request["userAttributes"]["given name"];
  if ("family name" in event.request["userAttributes"]) {
     claims["family name"] = event.request["userAttributes"]["family name"];
  event.response = {
    "claimsAndScopeOverrideDetails": {
     "accessTokenGeneration": {
        "claimsToAddOrOverride": claims
      }
   }
  };
 return event;
};
```

Codeblock 1 Token Transformer

The code does the following:

- It adds an aud claim that holds the clientld of the app client
- It adds the groups of the user as resource_access
- Add claims for the email, given name and family name of the user.

2.1.3 Security Groups

Configure the security groups to your liking. E.g you should decide if the archive keeper can be accessed by everyone in your VPC, the internet or only from chosen services or IP addresses. However, you should make sure that the EC2 instance can send requests to the Database and that the instance can reach the file storage.

2.1.4 Make UI accessible from the internet

2.1.4.1 Application Load Balancer

Create or update an internet-facing application load balancer.

Add one listener with 2 rules. One for accessing the backend and one for accessing the UI. We recommend listening to HTTPS connections on port 443.

The rule for the backend should match the path pattern /api/* and have a target group with the target type instances. The target group should use the AK EC2 instance as the registered target with port 8080 and use the HTTP protocol.



For the health check the path /manage/health and the success codes 200-299 can be used.

For the UI the default rule can be used. It should redirect all other requests to the target group of the UI. This target group should also have the target type instances and use the AK EC2 instance as the registered target with port 4200 and the HTTP protocol. For the health check the path /health and the success codes 200-299 can be used.

The load balancer can use a SSL/TLS server certificate from ACM if you don't have a certificate yet. See the Certificate section for more information.

2.1.4.2 Certificate

If you don't have a certificate, you can use the AWS Certificate Manager (ACM) to create one. First request a public certificate with a fully qualified domain name which uses a domain name that fits your hosted zone. In other words, that ends with the domain of your hosted zone.

This will create a certificate in status pending validation. To validate it press Create records in Route 53 and finish the dialog that is opened. After 1 or 2 minutes the certificate will change to issued and a record in your hosted zone has been created.

3. Start ArchiveKeeper

3.1 Configuration

Each application has a configuration file. For ak-be and ak-kms this is an environment file that can be found at ak-be/env and kms/env.

The UI is configured via the json file at ui/env-settings.json.

3.1.1 Postgres Database

The AK uses a Postgres database to store all data except the archived files. ak-be and ak-kms set up the needed tables by themself. However, they need to know which database to use. The following properties need to be set for ak-be and ak-kms:

| Property | Description |
|----------------------------|---|
| spring.datasource.url | The URL, including the protocol (jdbc:PostgreSQL), that the applications should use to access the DB. E.g. jdbc:postgresql://[Name].[Random_Hex].[AWS_Region].rd s.amazonaws.com/[Database]?currentSchema=ArchiveKe eper The schema is created automatically, but the given [Database] needs to exist in the database server |
| spring.flyway.schemas | The schema where the tables of the application should be placed. e.g. <u>ArchiveKeeper.</u> Note the schema in spring.datasource.url and spring.flyway.schemas need to match. |
| spring.datasource.username | Name of the DB user |
| spring.datasource.password | Password of the DB user |

ak-be and ak-kms can use different or the same database servers and databases. However, they need to use different schemas.



3.1.2 Mounting file storage

The storage for the documents is injected in the backend container as persisted volume. By default, the configuration uses the folder "/storage/archive-keeper" of the EC2 instance for the volume. To be independent of the EC2 instance we recommend using Amazon EFS (or similar) and mounting it in the "/storage/archive-keeper" path of the EC2 instance. ak-be will automatically create the needed folders in the path on startup. If you use another path, don't forget to adjust "at.risedev.ArchiveKeeper.rootfolder" in the ak-be environment file.

3.1.3 OAuth/OIDC

The Users authenticate themselves via an access token in the REST requests against ak-be. Therefore, ak-be needs the clientId to validate the token and get the roles the user has in ArchiveKeeper.

| Property | Description | | | | |
|---|---|--|--|--|--|
| at.risedev.ArchiveKeeper.idm.client-id | The clientId defined in the authorization server | | | | |
| at.risedev.ArchiveKeeper.idm.default-issuer | The URL of the authorization server e.g https://cognito-idp.[Region].amazonaws.com/[User_pool_ID] | | | | |

The UI redirects unauthenticated users to the authorization server therefore the following properties in the json file need to be set:

| Property | Description |
|----------------------------|--|
| oidc.issuer | The URL of the authorization server e.g https://cognito-idp.[Region].amazonaws.com/[User_pool_ID] |
| oidc.clientId | The clientId defined in the authorization server |
| oidc.redirectUri | The URI, where the authorization server should redirect the user after a successful authentication. This should be the Url that users can use from outside AWS to access the UI. |
| oidc.postLogoutRedirectUri | The URI, where the authorization server should redirect the user after a logout. Often is the same as oidc.redirectUri. |

ak-kms is only called by ak-be therefore it does not need any configuration for OIDC.

3.1.4 UI - Backend connection

The UI needs to know how to reach the backend, therefore set the property base in ui/env-settings.json. Note that the UI runs on the machine of the user so the URL needs to work from outside of AWS. It should also match the load balancer settings.

| Property | Description |
|----------|---|
| Base | The URL under which the ak-ui can reach the backend API. E.g. "https://your-domain.com/api" |



3.2 Deactivating the UI

To deactivate the UI the compose.yaml file needs to be adjusted. Set the replicas of the ak-ui service to 0.

3.3 Start containers

After everything is configured the applications can be started via docker compose.



4. Configuration Property-List

This list describes how the ArchiveKeeper backend can be configured.

| Property | Description | Default Value | Possible Values/ Datatype |
|---------------------------------|--|---|---------------------------|
| at.risedev.ArchiveKeeper.prune | | | |
| deletedDocumentCron | The cron-expression defines when the document prune jobs run. | - | Cron Expression |
| deletedDocSpaceCron | The cron-expression defines when the document space prune jobs run. | - | Cron Expression |
| deletedDocument | How long a document needs to be marked as (physical) deleted before it gets pruned. | P2D | Duration |
| deletedDocSpace | How long a document space needs to be marked as deleted before it gets pruned. | P2D | Duration |
| binaryCreated | Binaries that are longer in the state Created without being referenced by a document (revision) than the given value will be pruned by the document prune job. | PT1H | Duration |
| binaryUploading | Binaries that are longer in the state Uploading without being referenced by a document (revision) than the given value will be pruned by the document prune job. | P1D | Duration |
| tempDirectory | Files in the temp directory that have not been modified for the given duration will be deleted. | P1D | Duration |
| batchSize | How many documents get pruned in one batch. | 1000 | int |
| at.risedev.ArchiveKeeper.cache. | | | |
| jwtToken.spec | Caffeine spec for jwtToken cache | "maximumSize= 256, expireAfterWrite =600s" | |



| jwtAuth.spec | Caffeine spec for jwtAuth cache | "maximumSize= 256, expireAfterWrite =180s" |
|--|--|---|
| mdSchema.spec | Caffeine spec for mdSchema cache | "maximumSize= 32, expireAfterWrite =300s" |
| documentSpace.spec | Caffeine spec for documentSpace cache | "maximumSize= 512, expireAfterWrite =5s" |
| roles.spec | Caffeine spec for roles cache | "maximumSize= 512, expireAfterWrite =5s" |
| userPrettyName.spec | Caffeine spec for userPrettyName cache | "maximumSize= 512, expireAfterWrite =600s" |
| cipher.spec | Caffeine spec for cipher cache | "maximumSize= 512, expireAfterWrite =60s" |
| at.risedev.ArchiveKeeper.admin .nodeld | The id of the node running the application | |



| at.risedev.ArchiveKeeper .entityScan.packages | A list of package names to scan for database entities. | at.risedev.Archiv eKeeper | List of Strings |
|--|---|------------------------------|---|
| at.risedev.ArchiveKeeper. documentSpace | Default values for new or updated document spaces | | |
| defaultOwnerGroup | This group gets read, writte and delete access on every new docspace. Empty means no default group. | default-owner- group | |
| hardLimit | The default hard size limit of a document spaces. Is applied if the user doesn't define a value in the create or update request. Value is in MB. | 20000 | Java long |
| softLimit | The default soft size limit of document spaces. Is applied if the user doesn't define a value in the create or update request. Value is in MB. | 10000 | Java long |
| maxUploadFileSize | The default maximum size limit of a document for the document space. Is applied if the user doesn't define a value in the create or update request. Value is in MB. | 100 | Java long |
| retentionDuration | The default retention period of a document for a space. Is applied if the user doesn't define a value in the create or update request. | P0DT0S | All positive ISO 8601 strings |
| at.risedev.ArchiveKeeper.privacy. userPrettyName | How the pretty name of a user is built. This pretty name is used in the front end to display what user did what action, e.g., who uploaded a document. | FIRST_LAST | FIRST_LAST, UUID, MAIL, USERNAME, NOT_SET |
| at.risedev.ArchiveKeeper.delete. autoDeleteFactor | The factor determines the maximum number of autodeleteable documents that can be marked as deleted in a single run of the prune document task. | 1 | float |



| at.risedev.ArchiveKeeper. rootFolder | The path of the root folder for the storage of the uploaded documents. | \${System's temporary directory}/Archiv eKeeper | |
|--|---|--|-----------------|
| at.risedev.ArchiveKeeper. tempFolder | The path of the folder where uploaded documents are temporarily stored. | \${rootFolder}/te mp | |
| at.risedev.ArchiveKeeper.security.cors.allowedOrigins | The list of origins that are allowed to send requests to the ArchiveKeeper backend. Allows patterns like *. | | List of Strings |
| at.risedev.ArchiveKeeper. connectors.audit.database.enabled | Defines if audit records for user actions should be stored in the database. The audit records will be written in the log output if this is false. | false | boolean |
| at.risedev.ArchiveKeeper. connectors.diskstorage | These properties configure the file storage. This storage contains the files that are connected to documents. | | |
| Location | The path of the storage location folder. | \${rootFolder}/sto rage | |
| splitDocumentSpace | Defines if the folders for the document space are ordered in a tree structure or if they are all stored directly in the storage folder (see location). On true the document space id is split \${docSpaceDepth} parts of size \${docSpacePartSize} and for every part there will be one folder. In the final folder, there will be an additional folder containing the whole space id to ensure there are no collisions. This prevents the storage folder from having too many elements in it when there are a lot of document spaces. | false | boolean |
| v0Supported | Defines if a storage connector version 0 is used. The versions differ in where the files are stored. | true | boolean |
| v1Supported | Defines if a storage connector version 1 is used. The versions differ in where the files are stored. | false | boolean |
| docSpaceDepth | Defines how many subfolders (tree levels) are above the folder for the document space. Only applied if splitDocumentSpace is true. See splitDocumentSpace for more information. | 1 | int |



| docSpacePartSize | Defines how many characters of the document space id are used for the name of a subfolder. Only applied if splitDocumentSpace is true. See splitDocumentSpace for more information. | 2 | int |
|----------------------------------|--|-------|-------------------------|
| binaryLocationDepth | In contrast to the document space folders, the binaries are always stored in a tree structure. This configuration defines in how many subfolders the (binary) file is stored. It follows the same concept as described in splitDocumentSpace. If the value is 0 the file is directly stored in the folder for the document space. Not used in version 0 storage connector. | 1 | int |
| binaryLocationPartSize | In contrast to the document space folders, the binaries are always stored in a tree structure. Defines how many characters of the binary id are used for the name of a subfolder. It follows the same concept as described in splitDocumentSpace. If the value is 0 the file is directly stored in the folder for the document space. Only applied if splitDocumentSpace is true. Not used in version 0 storage connector. | 2 | int |
| storeMethod | Define how the uploaded files are moved from the temporary folder to the final storage. MOVE means that the file is just moved to the other location without reading it again. COPY means that the file is copied to the new location. WRITE means that the files are read by a stream and written to the new location. | WRITE | MOVE, COPY, WRITE |
| at.risedev.ArchiveKeeper.storage | These properties configure what storage connectors are used | | |
| storageMigrationFactor | This factor defines how many binaries are migrated to the current write storage connector in one run of the migration job. The migration only runs if the value is > 0 and more than one storage connector is active. | 1 | float |
| writeStorageConnector | Defines which storage connector version is used as write connector. If this value is not set the connector with the highest version will be chosen. | | internal, internal_v1 |
| at.risedev.ArchiveKeeper.idm | These configurations affect how the user is authenticated and authorized | | |
| Туре | What type of authentication is used. | BASIC | BASIC, JWT |



| defaultIssuer | An identification of the default issuer. Is used for initial users and if a user is created without a defined issuer. | \${spring.security .oauth2.resourc eserver.jwt.issue r-uri} or ArchiveKeeper- internal | |
|---------------------|---|---|-----------------------------------|
| defaultRoles | These roles are created if there no roles on startup of the application. A role has a name, description and a list of permissions. The permission value ALL gives all the role every permission. | name: ADMIN description: Administrator role with all permissions permissions: ALL | |
| clientId | The client id of this application. This is used to validate the token and find the application-specific claims. | | |
| usernameClaimName | The name of the claim that holds username. | sub | iss, sub, aud, exp, nbf, iat, jti |
| firstnameClaimName | The name of the claim that holds the first name of the user. | given_name | |
| lastnameClaimName | The name of the claim that holds the last name of the user. | family_name | |
| emailClaimName | The name of the claim that holds the email of the user. | email | |
| acceptedAcr | If any accepted acr values are set the car claim in the token needs to have one of the defined values. If no accepted acr are defined the check is skipped. | | List of Strings |
| createUserIfMissing | If a user that doesn't exist in the ArchiveKeeper database authenticates itself with a token it is created when the value is true. If it is false the authentication fails. | false | boolean |



| updateUserData | Defines if the user data in the ArchiveKeeper database should be updated when the user logs in and its user data has changed. | false | boolean |
|---|---|-----------------------------------|---------------------------|
| unsafeNormalizeRoles | Role names in a token are normalized by removing leading "p_" and transforming it into upper case. Only has an affect if a token is used for autnetication. | true (v2.5.0) | boolean |
| initialUser | The initial user is created when it is defined and no other user in the database exists. The initial user has the properties "name", "password" and roles. Where roles is a list of strings. | | |
| at.risedev.ArchiveKeeper. preservation | The configuration for the revisionsafty | | |
| Enabled | If the preservation job creating the revision safety evidence is active. If this is turned off no evidence is created. This means manipulation of the data through an atacker would not be noticed. If it it is turned on again all the document revisions that don't have evidence will get an evidence. | false | boolean |
| minAge | The minimum age a revision needs to have, that it is included in a timestamp. | PT1H | Duration |
| maxAge | If an document revision is older than the defined age a timestamp will always be created. This holds true even when there a less revisions then defined in minObjectsPerTimestamp. | PT2H | Duration |
| minObjectsPerTimestamp | The minum number of document revisions for which a timestamp will be created. | 32 768 | int |
| maxObjectsPerTimestamp | The maximum number of documents that can be included in a timestamp. | 131 072 | int |
| trustStore | The resource location of the trust store. | classpath:tsp- tsa-default.jks | Absolute or relative Path |
| trustStorePassword | The password of the trust store. | changeit | |
| checkRevocation | If it is checked certificates of timestamps were revoked. | true | boolean |
| certificateCheckInterval | How often the certificates should be checked if the were revoked. Only has an effect when checkRevocation is true. | PT24H | Duration |



| Cron | The cron-expression defines when the revision safety jobs run. | - | Cron Expression |
|--|---|-----------------------|--|
| at.risedev.ArchiveKeeper.rekey. maxRetries | How often a rekey binary task (encrypting a binary with another key) is tried if it failed. | 3 | int |
| at.risedev.ArchiveKeeper.sync | The configuration for syncing the search connectors with the operation database. | | |
| cron | The cron-expression defines when the synch jobs run. | - | Cron Expression |
| fetchSize | How many document ids to synch are fetched in one database request. | 50 | int |
| batches | How many batches of documents are synched in one run of the synch job. The number of document synched in one rune is the number of batches x fetchSize. | 10 | int |
| at.risedev.ArchiveKeeper. connectors.search.sql | The configuration of the SQL search connector | | |
| enabled | If the sql search connector should be used or not | true | boolean |
| mode | The mode in which the connector is run. READ_ONLY means that no new documents are synched but existing documents can be found. WRITE_ONLY means that no new documents are synched but it is not used in the search. The ONLY modes are helpful when switching the search connector and the data needs to be synced over some time. | READ_WRITE | READ_WRITE, READ_ONLY, WRITE_ONLY |
| at.risedev.ArchiveKeeper. connectors.kms.mode | Defining which KMS connector is used. Full completely encrypted the data in the remote services. key-only modes encrypt a key in the remote services and use this key for the encryption of the data in Archiekeeper. | | remote-key-only, remote-full, aws-key-only |
| at.risedev.ArchiveKeeper. cryptography | | | |
| iv | The initialization vector used in the encryption. Used with key-only mode. | 0123456789AB CDEF | |
| Cipher | The algorithm used for encrypting the data. Used with key-only mode. | AES/CFB/NoPa dding | |



| at.risedev.ArchiveKeeper. connectors.kms.remote | The configuration how to interract with remote KMS | | |
|--|---|--|-------------------------------|
| url | The URL under which the remote KMS can be found. Without a set value the startup will fail if kms.mode is one of the remote mods. | | |
| username | The username used to authenticate the ArchiveKeeper to the KMS. If no username or password is set an unauthenticated request is sent. | | |
| password | The password used to authenticate the ArchiveKeeper to the KMS. If no username or password is set an unauthenticated request is sent. | | |
| at.risedev.ArchiveKeeper. connectors.kms.aws.kmsKeyId | Only used with kms.mode aws-key-only. | alias/arkdev01- parent | |
| server.error.includeStacktrace | If the value is never the REST error responses will not include a stacktrace and for responses with 500 >= status <= 599 the message and error field will be replaced by a generic value. This way no internal information is exposed to third parties. | NEVER | NEVER, ALWAYS, ON_PARAM |
| spring.datasource.tomcat | Configuration of database connection pool | | |
| minIdle | The minimum number of connections that should be kept in the pool at all times. | 10 | |
| maxIdle | The maximum number of connections that should be kept in the pool at all times. | 20 | |
| maxActive | The maximum number of active connections. | 20 | |
| initialSize | The initial number of connections. | 10 | |
| jdbcInterceptors | A semicolon separated list of classnames extending org.apache.tomcat.jdbc.pool.JdbcInterceptor class. You propaply only want to adjust the slow query threshold which values is in milliseconds. | SlowQueryRepo rt(threshold=500);ResetAbandon edTimer | JDBC Interceptors |
| dbScheduler | The configuration of the scheduler handling the jobs and tasks e.g. the pruning job. | | |
| enabled | If the scheduler is active in other words if jobs and tasks are executed. | true | boolean |



| threads | How many threads the scheuler can start to execute the scheduled jobs/tasks. | 3 | |
|---------------------------------------|--|-------|---------|
| shutdownMaxWait | The maximum time that a job or task has to gracefuly stop on a shutdown signal. If it takes longer the thread is killed. | 5m | |
| failureLoggerLevel | On which level failures should be logged. | ERROR | |
| at.risedev.ArchiveKeeper.o penapiSpec | The configuration of the openapi REST-API documentation | | |
| Enabled | If the OpenAPI documentation is exposed. | true | boolean |
| allowUnauthenticated | If unauthenticated callers can retrieve the REST-API documentation. | false | boolean |

Note the property files use camel case and the property names in the table are in camel case. If you want to use yaml files transform the names in kebab-case.

Available profiles

| Profile name | Description |
|--------------|--|
| Web | A pod with this profile is only there for handling user requests. It deactivates the db-scheduler and will not run any scheduled jobs. This means it doesn't execute the periodical jobs. Reduces the default database connection pool size. Best is used together with another pod that uses the scheduler profile. |
| Scheduler | A pod with this profile is only there for executing the scheduled (periodical) jobs. Reduces the default database connection pool size. Best is used together with another pod that uses the web profile. |



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