OX Cloud Plugins
Release Notes for Release 1.8.6
2019-07-30

Contents

1 General Information

1.1 Warnings

⚠️ **Warning**
It is mandatory to restart the **open-xchange** service on all middleware nodes after performing the update.

⚠️ **Warning**
When updating only custom packages, it may be necessary to invalidate the browser cache to make the changes visible. An invalidation of the cache will be done automatically when updating OX core UI packages at the same time, but not if you are updating only custom UI plug-ins. In the latter case, please call the following command on all Apache nodes with the same value for <timestamp> :

```
/opt/open-xchange/sbin/touch-appsuite --timestamp=<timestamp>
```

⚠️ **Warning**
Custom configuration or template files are potentially not updated automatically. After the update, please always check for files with a **.dpkg-new** or **.rpmnew** suffix and merge the changes manually. Configuration file changes are listed in their own respective section below but don't include changes to template files. For details about all the configuration files and templates shipped as part of this delivery, please read the relevant section of each package.

⚠️ **Warning**
Since Cloud Plugins 1.6.0, the Cassandra functionality has been moved to OX Middleware. This requires manual changes of configuration files because the following settings needs to be changed accordingly:

/opt/open-xchange/etc/cloudplugins-cassandra.properties:

```
com.openexchange.cloudplugins.cassandraHost (1)
com.openexchange.cloudplugins.cassandraPort (2)
```

to */opt/open-xchange/etc/cassandra.properties*:

```
com.openexchange.nosql.cassandra.clusterContactPoints (1)
com.openexchange.nosql.cassandra.port (2)
```

Please see OX Cassandra documentation for a full set of options.

⚠️ **Warning**
Since Cloud Plugins 1.6.4, we removed the packaging epoch mechanism which will prevent an automatic update of open-xchange-oxaas packages from 1.6.3. If your environment contain 1.6.3 open-xchange-oxaas packages, please enforce the update to 1.6.4 or later manually.

1.2 Delivery Comment

This delivery was requested with following comment:

```
First RC of 1.8.6
```

1.3 Install Package Repository

This delivery is part of a public software repository:

https://software.open-xchange.com/components/cloud-plugins/stable/1.8.6/DebianJessie
https://software.open-xchange.com/components/cloud-plugins/stable/1.8.6/DebianStretch
https://software.open-xchange.com/components/cloud-plugins/stable/1.8.6/RHEL6
https://software.open-xchange.com/components/cloud-plugins/stable/1.8.6/RHEL7

Licensed customers should also configure a restricted software updates repositories by using their credentials:

https://software.open-xchange.com/components/cloud-plugins/updates/1.8.6/DebianJessie
https://software.open-xchange.com/components/cloud-plugins/updates/1.8.6/DebianStretch
https://software.open-xchange.com/components/cloud-plugins/updates/1.8.6/RHEL6
https://software.open-xchange.com/components/cloud-plugins/updates/1.8.6/RHEL7

1.4 Build Dependencies

This delivery was build and tested with following dependencies:

```
plugins-1.4.3-rev1,frontend-7.10.0-rev29
```

1.5 Notice

Info

Some configurations can be changed without restarting the service, please call following command for getting a list of supported settings.

```
/opt/open-xchange/sbin/listreloadables
```

Please use following command to enable capable and changed configurations on a running system.

```
/opt/open-xchange/sbin/reloadconfiguration
```

2 Shipped Product and Version

2.1 Package open-xchange-cloudplugins

The Open-Xchange cloud plugin bundles
Version: 1.8.6-1
Type: OX Middleware Plugin
Depends on:

```
open-xchange-admin-reseller (<<7.10.3)
open-xchange-admin-soap-reseller (>=7.10.0)
open-xchange-cassandra (<<7.10.3)
open-xchange-cassandra (>=7.10.0)
open-xchange-mailfilter (<<7.10.3)
open-xchange-mailfilter (>=7.10.0)
open-xchange-rest (<<7.10.3)
open-xchange-rest (>=7.10.0)
```

Conflicts with:

```
open-xchange-authentication
open-xchange-authentication-database
open-xchange-authentication-imap
open-xchange-authentication-ldap
```

2.1.1   General Functionality

The package open-xchange-cloudplugins contains a set of bundles to manage an integrated platform consisting of OX App Suite components and dovecot. It uses some additional software components in order to do that.

- openldap to store information for mail routing used by dovecot and postfix and to act as authentication source

- postfix as mail server

- nginx to act as a proxy for http, imap, pop3 and smtp

- cassandra to store data that often changes like last login attempts, etc.

The package itself contains some OSGi bundles explained in the following sections and the file `cloudplugins.properties` contain configurations shared among each other.

2.1.2   Admin Plugins

Those plugins extend the OX provisioning capabilities. They maintain the data required into the openldap server to do mail routing and authentication using the 2.1.8 LDAP Management functionality. Whenever a context or user is created, deleted or changed, the corresponding data in the ldap server is also updated.

```
com.openexchange.admin.cloudplugins
com.openexchange.admin.cloudplugins.console
```

2.1.2.1   SOAP API
Also in these bundles, there's another SOAP API providing cloud-plugins specific methods. Please see for further details the OXaaS SOAP API Documentation.

2.1.2.2   Admin REST API
Starting with release 1.6.3, there's now also a REST API, check `https://documentation.open-xchange.com` for a link.
ℹ️ **Info**
Note that in order for this API to be accessible, you need to add an entry like `ProxyPass /oxaas balancer://oxcluster/oxaas` to your `proxy_http.conf`.

2.1.3   Authentication Plugin

This plugin authenticates against the ldap server. To determine the user it needs to know the brand the user is belonging to. This is done using a configurable HTTP host header. This host header is added by the nginx proxy which sits in front of the ox middleware. Please see corresponding file `cloudplugins-authentication.properties` for configuration details.

```
com.openexchange.authentication.cloudplugins
```

2.1.4   Masterauth Servlet

This servlet allows to create an ox http session on behalf of a configurable master login and password without knowing the individual users login and password.

```
com.openexchange.cloudplugins.api.masterauth
```

This servlet provides the following API call which returns a valid OX session.

```
GET /api/oxaas/masterauth/brand/<brand>/context/<contextid>/user/<userid>
```

The following entry must be added to the apache proxy configuration:

```
ProxyPass /api/oxaas balancer://oxcluster/api/oxaas
```

The request has to provide a `X-AUTHENTICATION` header containing the value of

```
Base64( HMAC-SHA1( brand-auth-Key, UTF-8-Encoding-Of( StringToSign ) ) );
```

```
StringToSign = brand " " +
contextid + " " +
userid;
```

brand-auth-key is the value of the ldap nginxAuthKey Attribute of the brand entry. In addition to that, the requestor has to implement HTTP Basic auth using a configured master login and password. How to generate the X-AUTHENTICATION header with perl:

```
perl -MMIME::Base64 -MDigest::HMAC_SHA1=hmac_sha1
-e 'print encode_base64(hmac_sha1("example.com 24 3","secret"))." ;"'
```

How to test with wget:

```
wget -dv --user=admin --password=secret
--header='X-AUTHENTICATION: 6cmrSTcWCcyOV7mzkSgHDbrk8RI='
http://example.com/api/oxaas/masterauth/brand/example.com/context/24/user/3 -O -
```

The `cloudplugins-master-auth-servlet.propertie` configuration file belongs to this servlet.

2.1.5 Cassandra

This bundle utilizes the cassandra bundle from the ox middleware to read and write data from/to a cassandra cluster.

```
com.openexchange.cloudplugins.cassandra
```

As of now, the following data structures have to be created in order to use this bundle.

```
1  $ cqlsh
2
3  create keyspace ox WITH REPLICATION = { 'class' : 'SimpleStrategy', 'replication_factor' :
       1 };
4  use ox;
5  CREATE TYPE login_info ( login_time timestamp, ip_address text);
6  CREATE TABLE logins (ox_id text PRIMARY KEY, brand text, logins map<text, frozen<
       login_info>> );
7  CREATE TABLE failure_logins (ox_id text PRIMARY KEY, brand text, login_errors map<text,
       int>);
8  CREATE TABLE alias_log ( alias text PRIMARY KEY, brand text, creation_date timestamp,
       deletion_date timestamp, ox_id text );
9  CREATE TABLE quota_usage ( ox_id text,  type text, usage bigint, count bigint, primary key
       ((ox_id), type));
```

The complete bundle can be turned off and some functionality must be configured per brand. See corresponding configuration file `cloudplugins-cassandra.properties`.

2.1.6 Dovecot

This is an interface to the doveadm REST API of dovecot. Right now it only implements querying the mail quota usage of users.

```
com.openexchange.cloudplugins.dovecot
```

The `doveadm-config.properties` configuration file belongs to this interface.

2.1.7 Mailmapping

The mail mapping is required to integrate with OX Guard. It resolves an email address into a context and userid.

```
com.openexchange.cloudplugins.mailmapping
```

2.1.8 LDAP Management

This provides methods to maintain data in the LDAP server.

```
com.openexchange.cloudplugins.management
```

2.1.8.1 LDAP structure

The ldap schema used with these bundles can be found in the `ldap` folder within this git repository. The ldap tree consists of three main branches:

- 1. The brand tree contains the brand accounts with all users belonging to each brand below.

- 2. The configuration tree containing configuration entries like mailstores, mailservers, etc.

- 3. The context tree containing all contexts of all brands in the entire system.

A brand is a the same as a subadmin in the ox reseller bundle. This reseller bundle is a requirement to run the cloud-plugins environment. Due to the fact that all users within a brand are in the tree below a brand, user logins must not be unique within contexts as it us usually in an open-xchange environment, they must be unique within each brand. For details about the reseller bundle please see the Reseller Bundle Documentation.

2.1.9 Nginx Servlet

This provides a servlet used by Nginx to authenticate external IMAP, POP and SMTP users against the ox cloud-plugins scheme.

```
com.openexchange.cloudplugins.nginx.auth.servlet
```

Where users directly using OX webmail are authenticated using the 2.1.3 Authetication Plugin, external IMAP, POP and SMTP logins must also be mapped from the internal `uid@contextid` representation to a login string the corresponding brand prefers. This might be an email address, a phone number, or whatever else. Nginx acts as a IMAP, POP and SMTP proxy in front of dovecot and uses the nginx auth servlet as an authentication and transformation source to provide dovecot with the internal login id after it successfully authenticated the user. See corresponding configuration file `nginx-auth-servlet.properties`.

2.1.10 Cloud Report

This is a central tool to get service usage informations on user level. Therefore the administrator has different options to generate this report, which are explained later. The report procession is designed to be highly efficient in regard of memory and cpu usage. If not configured otherwise, the used resources should never interfere with the processes of the operating system. While in procession, parts of the report are stored on hdd, merged into the resulting report and deleted, when the report is done. The report is processing each relevant schema in its own thread and all schemas in parallel for maximum speed. See corresponding configuration file `cloudplugins_report.properties`.

```
com.openexchange.cloudplugins.report
```

2.1.10.1 Requirements
The report loads data from OX-DB as well as cassandra and LDAP storage. If no cassandra or OX-DB connection can be established, the report will not start. Without a valid LDAP connection, errors will be logged inside the report.

2.1.10.2 Report Types
Currently, there are two report types.

- Metrics - The original cloud-plugins report which provides user usage information in JSON.

- TKG112 - Provides user alias information in CSV.

These report types are described further below.

2.1.10.3 Usage
In general, there can be only one report processed at a time. A second report will be denied and the ID of the current report will be displayed. This report can be aborted with the corresponding option and all stored data will be deleted. During procession, the current status can be requested and the user will be provided with all finished contexts compared to totals.

⚠ **Warning**
The processed contexts will only be updated when the schema is completely processed to evade potential bottlenecks because of Object locks.

```
1   Usage: createreport
2    -h,--help                                 Prints a help text
3       --environment                          Show info about commandline environment
4       --nonl                                 Remove all newlines (\n) from output
5       --responsetimeout <responsetimeout>    response timeout in seconds for reading
            response from the backend (default 0s; infinite)
6    -A,--adminuser <adminuser>                * master admin user name
7    -P,--adminpass <adminpass>                * master admin password
8    -s,--timeframe-start <timeframe-start>    Set the starting date of the desired
         timeframe in which the user logins are considered, format: dd.mm.yyyy.
9    -e,--timeframe-end <timeframe-end>        Set the ending date of the desired
         timeframe in which the user logins are considered, in format: dd.mm.yyyy.
10   -a,--ignore-admin                         Ignore admins and dont show users of
         that category in the report.
11   -d,--show-drive-metrics                   Add drive metrics for every user.
12   -m,--show-mail-metrics                    Add mail metrics for every user.
13   -b,--single-brand <single-brand>          Create a report for the selected brand
         only. Identified by the brand admins sid.
14   -t,--terminate-report                     Terminates the currently processed
         report uuid.
15   -p,--pending-reports                      Get the status of the pending report.
16
17   Entries marked with an asterisk (*) are mandatory.
18   Entries marked with an question mark (?) are mandatory depending on your
19   configuration.
20   Entries marked with a pipe (|) are mandatory for one another which means that
21   at least one of them must be set.
```

```
1   Usage: createtkg112report
2    -h,--help                                 Prints a help text
3       --environment                          Show info about commandline environment
4       --nonl                                 Remove all newlines (\n) from output
5       --responsetimeout <responsetimeout>    response timeout in seconds for reading
            response from the backend (default 0s; infinite)
6    -A,--adminuser <adminuser>                * master admin user name
```

```
 7    -P,--adminpass <adminpass>                  * master admin password
 8    -b,--single-brand <single-brand>            * Brand to create report for. Identified
         by the brand admins sid.
 9    -t,--terminate-report                         Terminates the currently processed
         report uuid.
10    -p,--pending-reports                          Get the status of the pending report.
11
12   Entries marked with an asterisk (*) are mandatory.
13   Entries marked with an question mark (?) are mandatory depending on your
14   configuration.
15   Entries marked with a pipe (|) are mandatory for one another which means that
16   at least one of them must be set.
```

2.1.10.4   Data Format and Storage

The Metrics Report data is stored in JSON format and looks like the example below.

```
 1   {
 2       "uuid":"28b3573af6734877a448ab614698d115",
 3       "reportType":"OXaaS-report",
 4       "timestamps":{
 5           "start":1498477236283,
 6           "stop":1498477276490
 7       },
 8       "version":{
 9           "buildDate":"01.01.2017",
10           "version":"7.8.3"
11       },
12       "configs":{
13           "options":{
14               "show-drive-metrics":false,
15               "timeframe-start":1466941236283,
16               "show-mail-metrics":false,
17               "single-brand":0,
18               "ignore-admin":true,
19               "timeframe-end":1498477236283
20           }
21       },
22       "errors":{
23           "Exception-ID":"ERROR-ID Categories=ERROR Message='Message' exceptionID=Exception-ID
                "
24       },
25       "oxaas":{
26           "capabilitySets":{
27               "283724704":"autologin,blacklist,...",...
28           },
29           "brandname":{
30               "totals":{
31                   "quota" : 2621440000,
32       "quotaUsage" : 2522466,
33       "mailQuota" : 45365,
34       "mailQuotaUsage" : 0
35               },
36               "1":{
37                   "3":{
38                       "capabilitySet":"283724704",
39                       "drive" : {
40           "mime-types" : {
41            "text/plain" : 5,
42             "application/zip" : 2
43           },
44           "file-count-all-versions" : 7,
45           "quota" : 104857600,
46           "used-quota" : 2511077,
47           "file-size-min" : 5,
48           "file-count-latest-version" : 7,
49           "file-size-avg" : 358725,
50           "file-size-max" : 1255526
```

```
51          },
52          "mail" : {
53            "mail-quota" : 2048,
54            "mail-quota-usage" : 0
55          },
56                    "imap-login":"3@1",
57                    "login-info":"adam@brandname",
58                    "email":"adam@brandname",
59                    "user-logins":{
60          "HTTP" : 1497364334092,
61            "open-xchange-appsuite" : 1497364334090
62                    },
63                    "unified-quota-enabled":true,
64                    "unified-quota-limit":104859648,
65                    "unified-quota":2511533
66              }
67            }
68          }
69        }
70    }
```

The TKG112 Report data is stored in CSV format and looks like the example below. It will output an additional file with _info appended that contains configuration information as well as errors.

```
1  Email_nameID , Email_Displayname , Email_Begin , Email_Address , Email_Create , Email_Remove,
       Email_isactive
2  ID1 , TestUser1 , 2016-12-06 14:11:00 +0000, testuser@brand.com, 2016-12-06 14:11:00 +0000,
       , true
3  ID2 , TestUser2 , 2016-12-06 14:11:00 +0000, testuser2@brand.com, 2016-12-06 14:11:00 +0000,
       2016-12-06 14:11:00 +0000, false
```

2.1.10.5   TKG112 Data Description
All

- Email_nameID - Varchar (256) - OX "userName"

- Email_Displayname - Varchar (320) - Displayname used when sending emails

- Email_Begin - Date (YYYY-MM-DD hh:mm:ss TIME_ZONE) - Date of the registration in the OX system

- Email_Address - Varchar (256) - email address including the domain name

- Email_Create - Date (YYYY-MM-DD hh:mm:ss TIME_ZONE) - Date when the email address was created

- Email_Remove - Date (YYYY-MM0-DD hh:mm:ss TIME_ZONE) - Date when the email address was removed (optional)

- Email_isactive - Boolean true/false - Flag if the email account is active or not. Will be always true when Email_Remove is empty.

2.1.10.6   Metrics Data Description
General

- uuid - The report identifier

- reportType - Type of this report, so far only "OXaaS-report" possible

- timestamps - The start and end time of the report in milliseconds

- version - The builddate and version of the processing server

- errors - Map of all errors occured during procession. Key is the exception Id and value is further information like message, category and Error-Id

Configs

- show-drive-metrics - true or false

- timeframe-start - The used timeframe start, if not set by the user, one year in the past is used

- show-mail-metrics - true or false

- single-brand - The sid of the brand admin or 0 if not set

- ignore-admin - true or false

- timeframe-end - The used timeframe end, if not set, the starting time of the report is used

OXaaS

- capabilitySets - All capability sets determined by the report. Key is the hashed value of all capabilities in a list

- brandname - The brandname with all userdata for the brand

Per Brand

- totals - Drive and mail quota information for the whole brand, comulated values of all users.

- contexts - All context informations for this brand

Per User

- capabilitySet - The hash value of the capability-set this user has

- drive - All drive data for this user (only present if drive option is true)

- mail - All mail data for this user (only present if mail option is true)

- imap-login - Imap login address

- login-info - Login info, gather from LDAP

- email - users email address

- user-logins - A list of all protocols, the user used to login with the latest timestamp as milliseconds

- unified-quota-enabled - true or false

- unified-quota-limit - This users unified quota limit (only present if unified quota is enabled for this user)

- unified-quota - This users unified quota (only present if unified quota is enabled for this user)

Drive Data

- mime-types - Map of all mimetypes and their amount

- file-count-all-versions - Number of all files and versions for this user

- quota - Quota limit

- used-quota - Used quota

- file-size-min - Smallest file size in this storage

- file-count-latest-version - Number of files, respecting only the latest version

- file-size-avg - Average filesize

- file-size-max - Maximum filesize

Quota Data Sources With unified quota enabled

- drive limit - From LDAP

- drive quota - From Cassandra

- mail limit - From LDAP

- mail quota - From Cassandra

Without Unified Quota

- drive limit - From filestore

- drive quota - From filestore

- mail limit - From LDAP

- mail quota - From Cassandra

2.1.11 Unified Quota

This implements the unified quota feature for cloud-plugins. It requires cassandra to be running and initialized with the `quota_usage` table, see 2.1.5 Cassandra section. All file quota usage is updated into and read from cassandra.

```
com.openexchange.cloudplugins.unifiedquota
```

Please see for information about how to use this bundle the Unifiedquota Documentaion

2.1.12 Passwordchange

This implements the ox password change callback API in order to be able to change passwords in LDAP.

```
com.openexchange.passwordchange.cloudplugins
```

2.1.13 Installation

Install on OX middleware nodes with package installer **apt-get** or **yum**:

```
<package installer> install open-xchange-cloudplugins
```

2.1.14 Configuration

For details, please see appendix A
/opt/open-xchange/etc/plugin/mailstore-cloudplugins.properties (page 24)
/opt/open-xchange/etc/cloudplugins-authentication.properties (page 25)
/opt/open-xchange/etc/cloudplugins-master-auth-servlet.properties (page 25)
/opt/open-xchange/etc/cloudplugins-cassandra.properties (page 25)
/opt/open-xchange/etc/cloudplugins.properties (page 26)
/opt/open-xchange/etc/doveadm-config.properties (page 27)
/opt/open-xchange/etc/nginx-auth-servlet.properties (page 28)
/opt/open-xchange/etc/cloudquotaservice.properties (page 28)
/opt/open-xchange/etc/cloudquotaservice-cassandra.properties (page 29)
/opt/open-xchange/etc/cloudplugins_report.properties (page 30)

2.2   Package open-xchange-cloudplugins-blackwhitelist-ldap

Implementation of blacklist whitelist for cloudplugins within LDAP
Version: 1.8.6-1
Type: OX Middleware Plugin
Depends on:

```
open-xchange-cloudplugins (<<1.8.7)
open-xchange-cloudplugins (>=1.8.6)
open-xchange-core (<<7.10.3)
open-xchange-core (>=7.10.0)
open-xchange-plugins-blackwhitelist (<<1.5.0)
open-xchange-plugins-blackwhitelist (>=1.4.1)
```

2.2.1   Installation

Install on OX middleware nodes with package installer **apt-get** or **yum**:

```
<package installer> install open-xchange-cloudplugins-blackwhitelist-ldap
```

2.2.2   Configuration

For details, please see appendix A
/opt/open-xchange/etc/cloudplugins-blackwhitelist-ldap.properties (page 30)

2.3   Package open-xchange-cloudplugins-forwards-ws

Cloudplugins Admin forwards REST API This package provides a restful API to add/update/delete
forwards saved in storage.
Version: 1.8.6-1
Type: OX Middleware Plugin
Depends on:

```
open-xchange-cloudplugins (<<1.8.7)
open-xchange-cloudplugins (>=1.8.6)
open-xchange-core (<<7.10.3)
open-xchange-core (>=7.10.0)
```

2.3.1   General Functionality

This plugin provides a middleware restfull API to set mail forwards in the user storage.
List of features implemented by this plugin:

- Main entry point is **/api/oxaas/v1/admin/forwards**

- secured by basic auth mapped to customer login data

- **POST /{contextId}/{alias}** Sets a forward alias

- **PUT /{contextId}/{alias}** Adds recipient to existing forward alias

- **DELETE /{contextId}** Deletes all forward aliases in context

- **DELETE /{contextId}/{alias}** Deletes an alias in a context

- **GET /{contextId}** Returns all forward aliases in a context

- **GET /{contextId}/{alias}** Returns an alias in a context

- **HEAD /{contextId}/{alias}** Checks if an alias in a context is present

- **HEAD /{contextId}/{alias}/{recipient}** Checks, if a recipient of an alias in a context is present

2.3.2 Installation

Install on OX middleware nodes with package installer **apt-get** or **yum**:

```
<package installer> install open-xchange-cloudplugins-forwards-ws
```

2.3.3 Configuration

For details, please see appendix A
/opt/open-xchange/etc/cloudplugins-forwards.properties (page 31)

2.4 Package open-xchange-cloudplugins-keycloak

Keycloak connector This package contains a keycloak connection handler to retrieve access and refresh tokens.
Version: 1.8.6-1
Type: OX Middleware Plugin
Depends on:

```
open-xchange-cloudplugins (<<1.8.7)
open-xchange-cloudplugins (>=1.8.6)
open-xchange-oidc (<<7.10.3)
open-xchange-oidc (>=7.10.0)
```

2.4.1 General Functionality

This plugin provides a connector interface to request access and refresh tokens from keycloak. List of features implemented by this plugin:

- Provides ICPKeycloakOAuthAccessTokenService to interact with configureable keycloak endpoints

    – Supports password grant with username and password
    – Supports refresh grant with refresh_token

- Provides additional services to interact with oauth mail handling

    – AuthenticationFailedHandler - will request a new access token, when the imap backend signals, that the current access token is not valid anymore. If that is not possible, the session is terminated
    – SessionInspectorService - will request a new access and refresh token, if the initial access_token provided an expires_in value before the token actually timed out. If that is not possible, the session will be logged out.

- Provides ICPJwtParserService

    – Supports parsing the body of a JWT to read additional provided values from the keycloak endpoint.

2.4.2 Installation

Install on OX middleware nodes with package installer **apt-get** or **yum**:

```
<package installer> install open-xchange-cloudplugins-keycloak
```

2.4.3   Configuration

For details, please see appendix A
/opt/open-xchange/etc/cloudplugins-keycloak.properties (page 31)

2.5   Package open-xchange-cloudplugins-mailfilter

CloudPlugins MailFilter Utilities This package implements a mailfilter interceptor driver framework and provides some useful drivers.
Version: 1.8.6-1
Type: OX Middleware Plugin
Depends on:

```
open-xchange-cloudplugins (<<1.8.7)
open-xchange-cloudplugins (>=1.8.6)
open-xchange-mailfilter (<<7.10.3)
open-xchange-mailfilter (>=7.10.0)
open-xchange-rest (<<7.10.3)
open-xchange-rest (>=7.10.0)
```

2.5.1   General Functionality

This plugin provides a mailfilter interceptor driver framework and some useful drivers. List of features implemented by this plugin:

- Registers a MailFilterInterceptor

    - Automatically starts a Driver Manager which tracks MailFilterInterceptor Drivers
    - When a user creates/updates/deletes a filter rule, the driver manager will run each driver that is supported for that user in order of their rank.

- Provides MailFilterInterceptor Drivers - configured via their enabled property

    - RedirectStatusDriver - supports any user in any of the configured brands and tells Cloud-ManagementCassandraService the autoforward status and how many redirects exist.
    - RedirectBlacklistDriver - supports Config Cascade. Blocks users from creating only auto-forward or all redirect mail filter rules that use a To Address that is blacklisted.

2.5.2   Installation

Install on OX middleware nodes with package installer **apt-get** or **yum**:

```
<package installer> install open-xchange-cloudplugins-mailfilter
```

2.5.3   Configuration

For details, please see appendix A
/opt/open-xchange/etc/mailfilter-interceptor-drivers.properties (page 32)

2.6   Package open-xchange-cloudplugins-saml

SAML backend for any default Identity Server This package contains an SAML backend for any Identity Server, that fully supports the SAML protocol.
Version: 1.8.6-1
Type: OX Middleware Plugin
Depends on:

```
open-xchange-cloudplugins (<<1.8.7)
open-xchange-cloudplugins (>=1.8.6)
open-xchange-saml-core (<<7.10.3)
open-xchange-saml-core (>=7.10.0)
```

2.6.1   Installation

Install on OX middleware nodes with package installer **apt-get** or **yum**:

```
<package installer> install open-xchange-cloudplugins-saml
```

2.6.2   Configuration

For details, please see appendix A
/opt/open-xchange/etc/cloudplugins-saml.properties (page 34)

2.7   Package open-xchange-externalcontent-ui

External content portal plugin
Version: 1.8.6-1
Type: OX Frontend Plugin
Depends on:

```
open-xchange-appsuite-manifest (<<7.10.3)
open-xchange-appsuite-manifest (>=7.10.0)
```

2.7.1   Installation

Install on OX middleware nodes with package installer **apt-get** or **yum**:

```
<package installer> install open-xchange-externalcontent-ui
```

2.7.2   Configuration

For details, please see appendix A
/opt/open-xchange/etc/settings/externalcontent.properties (page 34)

2.8   Package open-xchange-oxaas-alias

OXaaS alias bundle This package implements OXaaS alias handling.
Version: 1.8.6-1
Type: OX Middleware Plugin
Depends on:

```
open-xchange-admin (<<7.10.3)
open-xchange-admin (>=7.10.0)
```

```
open-xchange-core (<<7.10.3)
open-xchange-core (>=7.10.0)
```

2.8.1   General Functionality

The plugin is available to everyone on the installed system.
List of features implemented by this plugin:

- Alias are provided through internal and external APIs

- add and all requests are backed by a Tarent adapter

- del request is handled internally by using the internal provisioning interfaces

- max concurrent aliases are set by config-cascade aware setting com.openexchange.oxaas.aliasquota with default of 15.

2.8.2   Installation

Install on OX middleware nodes with package installer **apt-get** or **yum**:

```
<package installer> install open-xchange-oxaas-alias
```

2.8.3   Configuration

For details, please see appendix A
/opt/open-xchange/etc/oxaas-alias.properties (page 34)

2.9   Package open-xchange-oxaas-mail-notify-ws

OXaaS notification mail servlet bundle
Version: 1.8.6-1
Type: OX Middleware Plugin
Depends on:

```
open-xchange-cloudplugins (<<1.8.7)
open-xchange-cloudplugins (>=1.8.6)
open-xchange-core (<<7.10.3)
open-xchange-core (>=7.10.0)
open-xchange-imap (<<7.10.3)
open-xchange-imap (>=7.10.0)
open-xchange-smtp (<<7.10.3)
open-xchange-smtp (>=7.10.0)
```

2.9.1   General Functionality

The plugin is available to everyone that has correctly setup configuration.
List of features implemented by this plugin:

- Configuration for templates are done on a config-cascade base

- `com.openexchange.oxaas.mail.quota.notify.prefix`
  with default value `notify.oxaas.over.quota`

- `com.openexchange.oxaas.mail.welcomemail.notify.prefix`
  with default value `notify.oxaas.welcome.mail`

- `com.openexchange.oxaas.mail.removed.sent.spam.notify.prefix`
  with default value `notify.oxaas.disable.sent.spam`

- The above prefix is used for the templates where each template must have
  `${prefix}.${quotavalue}.[html|subject|text].tmpl` files present, in the case of the over quota mails.For the others, it is
  `${prefix}.[html|subject|text].tmpl`

- Default files are provided for 90% and 100% with the prefix `notify.oxaas.over.quota.`

- `com.openexchange.noreply.address` must be set via config-cascade, otherwise this feature won't work.

- `com.openexchange.oxaas.mail.(quota|welcomemail|removed.sent.spam).ignoreFooterImage`
  can be set via config-cascade to disable footerImage added as attachment to the mail, or by using `com.openexchange.oxaas.mail.ignoreFooterImage` that applies to all types

2.9.2   REST API

This package implements the OXaaS mail notification generation servlet which will return several mails via a REST API:

```
1  /api/oxaas/notification/mail/quota/{usercontext}/ (JSON body: {"quota_threshold":"..."})
2  /api/oxaas/notification/mail/welcomemail/{usercontext}/
3  /api/oxaas/notification/mail/disable_sent_spam_notification/{usercontext}/
```

2.9.3   Installation

Install on OX middleware nodes with package installer **apt-get** or **yum**:

```
<package installer> install open-xchange-oxaas-mail-notify-ws
```

2.9.4   Configuration

For details, please see appendix A
/opt/open-xchange/etc/oxaas-mail-notification-templates.properties (page 35)
/opt/open-xchange/etc/oxaas-drive-quota-notification.properties (page 35)

2.9.5   Templates

/opt/open-xchange/templates/notify.oxaas.over.quota.90.text.tmpl
/opt/open-xchange/templates/notify.oxaas.over.quota.90.subject.tmpl
/opt/open-xchange/templates/notify.oxaas.over.quota.100.subject.tmpl
/opt/open-xchange/templates/notify.oxaas.over.quota.90.html.tmpl
/opt/open-xchange/templates/notify.oxaas.over.quota.100.html.tmpl
/opt/open-xchange/templates/notify.oxaas.over.quota.100.text.tmpl

2.10   Package open-xchange-oxaas-mail-unread-ws

OXaaS mail custom mail servlet bundle This package implements OXaaS mail servlet to gather information via rest api.
Version: 1.8.6-1
Type: OX Middleware Plugin
Depends on:

```
open-xchange-cloudplugins (<<1.8.7)
open-xchange-cloudplugins (>=1.8.6)
open-xchange-core (<<7.10.3)
open-xchange-core (>=7.10.0)
open-xchange-imap (<<7.10.3)
open-xchange-imap (>=7.10.0)
```

2.10.1   General Functionality

API to featch the user related unread count for INBOX
List of features implemented by this plugin:

- API is reachable at `http://localhost:8009/preliminary/api/oxaas/mail/unread/<useridentifier>`

- API is secured by oxaas-mail-unread.properties where it is possible to add configuration for each brand that should have this feature enabled

- Set com.openexchange.oxaas.mail.unread.ws.basic.usernames=hosterone

- Set com.openexchange.oxaas.mail.unread.ws.basic.hosterone.brand=internalBrandForhosterone

- Set com.openexchange.oxaas.mail.unread.ws.basic.hosterone.password=verySecretPassword

2.10.2   Installation

Install on OX middleware nodes with package installer **apt-get** or **yum**:

```
<package installer> install open-xchange-oxaas-mail-unread-ws
```

2.10.3   Configuration

For details, please see appendix A
/opt/open-xchange/etc/oxaas-mail-unread.properties (page 35)

2.11   Package open-xchange-oxaas-mail-ws

OXaaS mail custom mail servlet bundle This package implements OXaaS mail servlet to gather information via rest api.
Version: 1.8.6-1
Type: OX Middleware Plugin
Depends on:

```
open-xchange-cloudplugins (<<1.8.7)
open-xchange-cloudplugins (>=1.8.6)
open-xchange-core (<<7.10.3)
open-xchange-core (>=7.10.0)
open-xchange-imap (<<7.10.3)
open-xchange-imap (>=7.10.0)
```

2.11.1   General Functionality

This plugin provides a middleware restfull API to retrieve details of customerdata.
List of features implemented by this plugin:

- Main entry point is **/api/oxaas/mail**

- secured by basic auth mapped to customer brand

- **/api/oxaas/mail/{uid}/recentmails** returns latest 5 mails in INBOX

- **/api/oxaas/mail/{uid}/quota** returns current mailbox quota

- **/api/oxaas/mail/{uid}/newmessages** returns the number of new mails since last login

- **/api/oxaas/mail/{uid}** all of the above combined

2.11.2 Installation

Install on OX middleware nodes with package installer **apt-get** or **yum**:

```
<package installer> install open-xchange-oxaas-mail-ws
```

2.11.3 Configuration

For details, please see appendix A
/opt/open-xchange/etc/oxaas-mail.properties (page 36)

Find more information about product versions and releases at `http://oxpedia.org/wiki/index.php?title=AppSuite:Versioning_and_Numbering` and `http://documentation.open-xchange.com/`.

3 Bugs fixed with this Release

This section provides a summary of bug fixes and changes that have been applied subsequently to shipping Release 1.8.5. Some of the announced bug fixes may have already been fixed at the existing code-base via Patch Releases.

CP-131 **User mailstoreDN attribute may never be removed**
Status: Done
Resolution: Fixed
Affected Packages: open-xchange-cloudplugins

CP-163 **Default authentication driver is unable to handle login by alias**
Status: Done
Resolution: Fixed
Affected Packages: open-xchange-cloudplugins

CP-179 **deleteuser on a guest user results in an exception**
Status: Done
Resolution: Fixed
Affected Packages: open-xchange-cloudplugins

CP-181 **CassandraCloudQuotaServiceDriver doesn't take unified quota into account**
Status: Done
Resolution: Fixed
Affected Packages: open-xchange-cloudplugins

4 Changes relevant for Operators

4.1 Changes of Configuration Files

Change #1   /opt/open-xchange/etc/cloudplugins-keycloak.properties

```
+com.openexchange.cloudplugins.keycloak.oauth.[client].tokenEndpoint=
+com.openexchange.cloudplugins.keycloak.oauth.[client].clientId=
+com.openexchange.cloudplugins.keycloak.oauth.[client].clientSecret=
+com.openexchange.cloudplugins.keycloak.oauth.maxConnections=
+com.openexchange.cloudplugins.keycloak.oauth.maxConnectionsPerHost=
+com.openexchange.cloudplugins.keycloak.oauth.connectionTimeout=
+com.openexchange.cloudplugins.keycloak.oauth.socketReadTimeout=
+com.openexchange.cloudplugins.keycloak.oauth.refreshTime=
```

Package: open-xchange-cloudplugins-keycloak

Change #2   /opt/open-xchange/etc/cloudquotaservice-cassandra.properties

```
+com.openexchange.cloudplugins.quota.unified.quota=
```

Package: open-xchange-cloudplugins

4.2 Changes of Behavior

Change #CP-180   Keycloak: middleware general keycloak connection component
Status: Done
Resolution: Done
Affected Packages: open-xchange-cloudplugins-keycloak

Change #CP-182   Delete APS2 packages
Status: Done
Resolution: Done
Source Directory: Jenkinsfile
cloud-plugins-packages
com.openexchange.cloudplugins.aps2.upsell
com.openexchange.cloudplugins.aps2.upsell.json
open-xchange-aps2-upsell-ui
open-xchange-cloudplugins-aps2-upsell

5 Tests

Not all defects that got resolved could be reproduced within the lab. Therefore, we advise guided and close monitoring of the reported defect when deploying to a staging or production environment. Defects which have not been fully verified, are marked as such.
To avoid side effects, the shipped packages have gone through automated regression test on both, a Continuous Integration System and a dedicated server set-up for system and integration testing. All changes have been checked for potential side-effects and effect on behavior. Unless explicitly stated within this document, we do not expect any side-effects.

5.1 Test Report

Test T1529322   External Content Portal Widget - Pre-configured case (cloud-plugins-1.8.6-rev1)
Status: Passed
This case covers the "pre-configured" scenario. With a configuration file, forces an immovable portal widget onto the user's Portal application in the first slot, displaying a pre-configured external URL (such as an account page, etc.) NOTE: The external content displayed may encounter a same-origin policy error, wherein the browser will refuse to display the external URL's content in the iframe if the remote server does not allow that behavior.

Test T1529323   External Content Portal Widget - Non-configured case (cloud-plugins-1.8.6-rev1)
Status: Passed
This case covers the "non-configured" scenario. Absent a portal.yml file (see C31474), the portal widget exists as a user-configurable add-on to their portal. When the user adds the portal widget, they can specify any external content URL to display. NOTE: The external content displayed may encounter a same-origin policy error, wherein the browser will refuse to display the external URL's content in the iframe if the remote server does not allow that behavior.

Test T1529324   External Content Portal Widget - Configurable Title (cloud-plugins-1.8.6-rev1)
Status: Passed
The External Content widget allows the server administrator to set its title, in both "pre-configured" and "non-configured" modes. The process is the same for both. The title can be translated for different locales by adding an entry to the externalcontent.properties file for the given locale. Absent a locale-specific entry in externalcontent.properties, the title will fall back to the default value, set in the same file. Absent that entry, the default value will be blank.

Test T1529325   Restrict mail access (cloud-plugins-1.8.6-rev1)
Status: Passed
If a user has access-webmail off, this must be written into LDAP

Test T1529326   Installation setup of Cassandra (cloud-plugins-1.8.6-rev1)
Status: Passed

Test T1529327   Login table creation in Cassendra (cloud-plugins-1.8.6-rev1)
Status: Passed

Test T1529328   Record logging of Http protocol with valid credentials (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-4

Test T1529329   Record logging of Http protocol with invalid credentials (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-5

Test T1529330   Record logging of Smtp protocol with valid credentials (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-4

Test T1529331   Record logging of Smtp protocol with invalid credentials (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-5

Test T1529332 Record logging of IMAP protocol with valid credentials (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-4

Test T1529333 Record logging of IMAP protocol with invalid credentials (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-5

Test T1529334 Record reset counter for IMAP protocol on successful login (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-5

Test T1529335 Record reset counter for SMTP protocol on successful login (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-5

Test T1529336 Record reset counter for Http protocol on successful login (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-5

Test T1529337 Logging the Upgrade time of Drive (cloud-plugins-1.8.6-rev1)
Status: Passed

Test T1529338 Logging the Downgrade time of Drive (cloud-plugins-1.8.6-rev1)
Status: Passed

Test T1529339 Record the creation time of Email Alias (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-14

Test T1529340 Record the deletion time of Email Alias (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-14

Test T1529341 User authentication without ldap binding (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-34(CP-34)

Test T1529342 Record the quota information in Quota Usage table in Cassandra (cloud-plugins-1.8.6-rev1)
Status: Passed
Verify the quota logging in database
Jira MW-442

Test T1529343 User master authentication (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-1

Test T1529344 Get user with option attributes (cloud-plugins-1.8.6-rev1)
Status: Passed

Link

Test T1529345   Restful API function to Create/update oxMSISDN and oxCustomId attributes (cloud-plugins-1.8.6-rev1)
Status: Passed
Link

Test T1529346   Delete optional attributes from Ldap Schema (cloud-plugins-1.8.6-rev1)
Status: Passed
Link

Test T1529347   Record creation and deletion of AutoForward sieve filter in Cassendra table (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-110

Test T1529348   Get User configuration (cloud-plugins-1.8.6-rev1)
Status: Passed
Jira CP-93

Test T1529349   Use Nginx Auth with Alias (cloud-plugins-1.8.6-rev1)
Status: Passed

6   Fixed Bugs

CP-131, CP-163, CP-179, CP-181,

A   Configuration Files

File 1   /opt/open-xchange/etc/plugin/mailstore-cloudplugins.properties

```
1   MAILSTORE_CLOUD_STORAGE=com.openexchange.admin.cloudplugins.storage.mysqlStorage.
        MailstoreCloudMySQLStorage
```

File 2   /opt/open-xchange/etc/cloudplugins-authentication.properties

```
1   # Regex to validate host HTTP Header value
2   com.openexchange.authentication.cloudplugins.host.regex= [0-9a-zA-Z.]*
3
4   #Regex to validate user name
5   com.openexchange.authentication.cloudplugins.user.regex= [0-9a-zA-Z.@]*
6
7   # Setting to control the start of the own authenticationService which would be used as a
        fallback in the Tracker if started
8   # Default: true
9   com.openexchange.authentication.cloudplugins.enableauthentication=true
10
11  # Comma seperated blacklist of hostnames that should not be handled by the default
        authenticationService
12  # Default: <empty>
13  com.openexchange.authentication.cloudplugins.authentication.blacklist=
14
15  # Setting to control the start of the CloudAuthenticationDriverTracker
```

```
16   # Default: true
17   com.openexchange.authentication.cloudplugins.enable.authentication.tracker=true
```

File 3   /opt/open-xchange/etc/cloudplugins-master-auth-servlet.properties

```
1    #
2    # login name of httpauth user to access the master auth api
3    #
4    com.openexchange.cloudplugins.master.auth.httpauth.login=
5
6    #
7    # password of httpauth user
8    #
9    com.openexchange.cloudplugins.master.auth.httpauth.password=
```

File 4   /opt/open-xchange/etc/cloudplugins-cassandra.properties

```
1    # turn on/off cassandra integration
2    # possible values: true/false
3    com.openexchange.cloudplugins.useCassandra = false
4
5    # keyspace to use in cassandra
6    com.openexchange.cloudplugins.cassandraKeyspace = ox
7
8    # comma separated list of brands which logins should be recorded to cassandra
9    com.openexchange.cloudplugins.cassandra.loginrecorder.remoteipfor.brands=
10
11   # comma separated list of brands where alias creation and deletion time should be recorded
           to cassandra
12   com.openexchange.cloudplugins.cassandra.loginrecorder.createdeletealias.brands=
13
14   # comma separated list of brands where mail autoforward active flag should be set
15   com.openexchange.cloudplugins.cassandra.autoforward.record.brands=
```

File 5   /opt/open-xchange/etc/cloudplugins.properties

```
1
2    # ldap url for read access
3    com.openexchange.cloudplugins.read.ldapurl=ldap://localhost:389
4
5    # admin dn for read access
6    com.openexchange.cloudplugins.read.binddn=cn=oxadmin,o=oxcs
7
8    # admin dn password for read access
9    com.openexchange.cloudplugins.read.bindpassword=
10
11   # ldap url for write access
12   com.openexchange.cloudplugins.write.ldapurl=ldap://localhost:389
13
14   # admin dn for write
15   com.openexchange.cloudplugins.write.binddn=cn=oxadmin,o=oxcs
16
17   # admin dn password for write access
18   com.openexchange.cloudplugins.write.bindpassword=
19
20   # tree for brands
21   com.openexchange.cloudplugins.branddn=ou=brands,o=oxcs
22
23   # tree for other stuff like mailstores
```

```
24  com.openexchange.cloudplugins.configdn=ou=config,o=oxcs
25
26  # tree for contexts
27  com.openexchange.cloudplugins.contextdn=ou=contexts,o=oxcs
28
29  # password for doveadm service
30  com.openexchange.cloudplugins.doveadmPassword=
31
32  # This timeout only works since Java 6 SE to time out waiting for a response.
33  com.openexchange.cloudplugins.read.timeout=10000
34
35  # Specifies the connect timeout (in milliseconds) when establishing a connection to the
        LDAP end-point
36  #
37  # Default is 5000 (5 seconds)
38  com.openexchange.cloudplugins.connect.timeout=5000
39
40  # Algorithm to use to encrypt passwords
41  # valid values are: SSHA and SSHA-384
42  com.openexchange.cloudplugins.password.algorithm=SSHA
43
44  # how long should the random salts be
45  com.openexchange.cloudplugins.password.algorithm.saltlength=64
46
47  # HTTP Header from which the brand name is fetched
48  com.openexchange.cloudplugins.header=host
49
50  # can a user change the password without providing the old one?
51  # default is false
52  com.openexchange.capability.password_change_without_old_password=false
53
54  # use ldapbind as password verification (true) or retrieve password digest from
55  # ldap using provided read credentials and do the check locally (false)
56  # NOTE: local password check only works when setting
57  # com.openexchange.cloudplugins.password.algorithm to SSHA or SSHA384
58  # and all existing users must have the userPassword encoded with any of those mechanisms.
59  com.openexchange.cloudplugins.passwordcheck.ldapbind=true
60
61  # Comma separated list of brands that where aliases should be moved into deleted tree
62  com.openexchange.cloudplugins.store.deleted.alias.brands=
63
64  # jndi ldap pool configuration
65  # see http://docs.oracle.com/javase/jndi/tutorial/ldap/connect/config.html for more
        information
66  com.openexchange.cloudplugins.pool=true
67  com.openexchange.cloudplugins.pool.initsize=1
68  com.openexchange.cloudplugins.pool.maxsize=20
69  com.openexchange.cloudplugins.pool.prefsize=10
70  com.openexchange.cloudplugins.pool.timeout=300000
71  com.openexchange.cloudplugins.pool.protocol=plain
72
73  # Allowed encryption methods for LDAP userPassword
74  # internal default: MD5,SHA,CRYPT,SSHA,SSHA384
75  com.openexchange.cloudplugins.setPasswordHash.allowedMethods=MD5,SHA,CRYPT,SSHA,SSHA384
```

File 6 /opt/open-xchange/etc/doveadm-config.properties

```
1   # Api secret
2   com.openexchange.cloudplugins.dovecot.apiSecret=
3
4   # Dovecot port
5   com.openexchange.cloudplugins.dovecot.port=8080
6
7   # Protocol to use
8   com.openexchange.cloudplugins.dovecot.protocol=http://
9
10  # Dovecot host
11  com.openexchange.cloudplugins.dovecot.host=localhost
```

```
12
13  # Path to dovecot commands
14  com.openexchange.cloudplugins.dovecot.path=/doveadm/v1
15
16  # How many contexts per request should be transmitted
17  com.openexchange.cloudplugins.dovecot.contextChunks=100
18
19  # Max number of http connections
20  com.openexchange.cloudplugins.dovecot.maxConnections=100
21
22  # Max number of http connections per host
23  com.openexchange.cloudplugins.dovecot.maxConnectionsPerHost=100
24
25  # The connection timeout in milliseconds
26  com.openexchange.cloudplugins.dovecot.connectionTimeout=5000
27
28  # The socket read timeout in milliseconds
29  com.openexchange.cloudplugins.dovecot.socketReadTimeout=15000
```

File 7   /opt/open-xchange/etc/nginx-auth-servlet.properties

```
1   # Regex to validate brandName value
2   com.openexchange.cloudplugins.nginx.auth.servlet.brandName.regex= [0-9a-zA-Z.]*
3
4   # Regex to validate user name
5   com.openexchange.cloudplugins.nginx.auth.servlet.uid.regex= [0-9a-zA-Z.@]*
6
7   # Configure the LDAP lookup method to find users using their logins.
8   # It is the method that is used by default when there is no brand specifi
9   # configuration setting).
10  #
11  # Optional, defaults to "uid".
12  #
13  # Possible values:
14  # uid
15  #   attempts to find users by matching their login against the uid attribute.
16  # email
17  #   attempts to find users by matching their login against the alias attribute.
18  # auto
19  #   when the login contains a "@", the "email" method is used and when not,
20  #   the "uid" method is used
21  # uid-or-email
22  #   attempts to find users by matching their login against the uid and the alias
23  #   attributes (either may match)
24  #
25  # Note that this only applies to the default authentication driver. If there
26  # is a custom implementation that is used for a given brand, its behavior is
27  # not influenced by this properties.
28  #
29  # Example:
30  # com.openexchange.cloudplugins.nginx.auth.servlet.uid.mode=auto
31
32  # One may define any number of such settings per brand by setting properties
33  # with the following format for their name:
34  #
35  # com.openexchange.cloudplugins.nginx.auth.servlet.uid.mode.<brand>=<uid|email|auto|uid-or
        -email>
36  #
37  # For the list of possible values, please consult the documentation for
38  # com.openexchange.cloudplugins.nginx.auth.servlet.uid.mode
39  #
40  # Optional, defaults to falling back to the method configured in
41  # com.openexchange.cloudplugins.nginx.auth.servlet.uid.mode
42  #
43  # Note that this only applies to the default authentication driver. If there
44  # is a custom implementation that is used for a given brand, its behavior is
45  # not influenced by these properties.
46  #
```

```
47  # Example:
48  #
49  # com.openexchange.cloudplugins.nginx.auth.servlet.uid.mode.brand1=auto
50  # com.openexchange.cloudplugins.nginx.auth.servlet.uid.mode.brand2=uid
```

File 8   /opt/open-xchange/etc/cloudquotaservice.properties

```
1   # Identifier of the default quota driver to use when not
2   # superseded by a per-brand configuration setting (see below).
3   #
4   # This configuration property is optional.
5   # When it is not set, it will attempt to use the "dovecot"
6   # driver, if available (installed).
7   # If the "dovecot" driver is not installed, it will use the
8   # highest ranked driver that is installed.
9   #
10  # For a deterministic approach, it is recommended to set
11  # a value for this configuration setting.
12  #
13  # Example:
14  # com.openexchange.cloudplugins.quota.default.driver=cassandra
15  com.openexchange.cloudplugins.quota.default.driver=
16
17  # Override the quota driver per brand.
18  #
19  # Use property names that start with
20  # "com.openexchange.cloudplugins.quota.driver."
21  # followed by the brand name (not the complete DN
22  # but just the brand name).
23  #
24  # These are optional and, if not defined, will always fall
25  # back to the driver configured in the property
26  # com.openexchange.cloudplugins.quota.default.driver
27  #
28  # Example:
29  # com.openexchange.cloudplugins.quota.driver.brand1=cassandra
30  # com.openexchange.cloudplugins.quota.driver.otherbrand=cassandra
31  #
```

File 9   /opt/open-xchange/etc/cloudquotaservice-cassandra.properties

```
1   # Use the legacy "type" value for lookups in the Cassandra
2   # quota table.
3   # In recent deployments, the "type" parameter is "dovecot_mail",
4   # but in previous installments, the "type" used to be null.
5   # Setting this property to true will use null for the "type"
6   # query parameter.
7   #
8   # This property is optional and when not set, defaults to false.
9   #
10  # Example:
11  # com.openexchange.cloudplugins.quota.use.legacy.type=true
12  #
13
14  com.openexchange.cloudplugins.quota.use.legacy.type=false
15
16  # Unified quota performance optimizations.
17  #
18  # The default behavior is to check whether every single user
19  # who's usage quota is retrieved has unified quota enabled or not,
20  # and return data accordingly.
21  #
22  # In most use cases, if not all, unified quota will be enabled or
```

```
23    # disabled uniformly
24    # - globally for a platform,
25    # - or globally for a brand,
26    # - or for a whole context,
27    # in which case the implementation can avoid or minimize the amount
28    # of queries it needs to perform in order to determine how to
29    # calculate the quota usage, depending on whether unified quota
30    # is enabled or disabled for a user.
31    #
32    # Two configuration settings govern this behavior:
33    # - the default behavior which is used for every brand on a platform
34    #    (com.openexchange.cloudplugins.quota.unified.quota)
35    # - per-brand behaviors which take precedence over the default
36    #    (com.openexchange.cloudplugins.quota.unified.quota.<brand name>)
37    #
38    # Each of those settings can have one of the following values:
39    #
40    # always
41    #    the implementation will assume that unified quota is enabled for
42    #    all contexts within the brand, or for all contexts within all
43    #    brands if applied to the default setting
44    #
45    # never
46    #    the implementation will assume that unified quota is disabled for
47    #    all contexts within the brand, or for all contexts within all
48    #    brands if applied to the default setting
49    #
50    # context
51    #    the implementation will only check whether unified quota has
52    #    been enabled for the context the user(s) are in, and not for
53    #    each individual user, assuming that all users within the same
54    #    context are always configured uniformly regarding unified quota,
55    #    be it enabled or disabled
56    #
57    # user
58    #    the implementation will make no assumptions and check whether
59    #    unified quota is enabled or not for every individual user -- this
60    #    is the safest setting, which is why it is the default, but also
61    #    the slowest and should be avoided if possible
62    #
63    # The default setting can be configured using the property
64    # com.openexchange.cloudplugins.quota.unified.quota=...
65    #
66    # It is optional and defaults to "user" (as explained above) if
67    # omitted, commented out or left empty.
68    #
69    # Example:
70    # com.openexchange.cloudplugins.quota.unified.quota=never
71    com.openexchange.cloudplugins.quota.unified.quota=
72
73    # Per-brand settings can be configured using the following
74    # prefix, followed by the name of the brand:
75    # com.openexchange.cloudplugins.quota.unified.quota.<brand name>=...
76    #
77    # Example:
78    # com.openexchange.cloudplugins.quota.unified.quota.my_brand=always
79    # com.openexchange.cloudplugins.quota.unified.quota.my_other_brand=context
80    #
81    # Those are obviously optional and default to using the default
82    # setting above (which, in turn, when omitted, defaults to "user").
83    #
```

File 10   /opt/open-xchange/etc/cloudplugins_report.properties

```
1    # Where the report and its parts should be stored
2    com.openexchange.cloudplugins.report.storagePath=/tmp
3
4    # How many contexts can be stored in memory before writing them on hdd
```

```
 5  com.openexchange.cloudplugins.report.maxChunkSize=200
 6
 7  # How many parallel threads can work on the report
 8  com.openexchange.cloudplugins.report.maxThreadPoolSize=20
 9
10  # Report thread priority
11  com.openexchange.cloudplugins.report.threadPriority=1
12
13  # Max number of entities that will be included in an ldap search
14  com.openexchange.cloudplugins.report.maxLdapChunks=20000
```

File 11   /opt/open-xchange/etc/cloudplugins-blackwhitelist-ldap.properties

```
 1  # Identifier of this blackwhitelist connector: cloudplugins_blackwhitelist_ldap
 2  # ldap uri
 3  com.openexchange.cloudplugins.blackwhitelist.connector.ldap.uri=remote.url.for.ldap
 4
 5  # ldap port
 6  com.openexchange.cloudplugins.blackwhitelist.connector.ldap.port=389
 7
 8  # ldap user
 9  com.openexchange.cloudplugins.blackwhitelist.connector.ldap.user=cn=oxadmin,o=oxcs
10
11  # ldap password
12  com.openexchange.cloudplugins.blackwhitelist.connector.ldap.passwd=
13
14  # ldap base, can be empty
15  com.openexchange.cloudplugins.blackwhitelist.connector.ldap.base=ou=lists,o=oxcs
16
17  # ldap search filter
18  # possible template values {{usercontext}}
19  # usercontext is build as 'userid + "@" + contextid'
20  com.openexchange.cloudplugins.blackwhitelist.connector.ldap.searchFilter=
        oxLocalMailrecipient={{usercontext}}
21
22  # ldap DN to create when an entry is missing
23  # possible template values {{usercontext}}, {{brand}}
24  # usercontext is build as 'userid + "@" + contextid'
25  # brand is searched from default LDAP
26  com.openexchange.cloudplugins.blackwhitelist.connector.ldap.user.dn=oxLocalMailrecipient
        ={{usercontext}},bn={{brand}},ou=lists,o=oxcs
27
28  # ldap maximum pool size
29  com.openexchange.cloudplugins.blackwhitelist.connector.ldap.pool.size=10
30
31  # ldap max requests before connection is closed
32  # can be set to -1 to be disabled
33  com.openexchange.cloudplugins.blackwhitelist.connector.ldap.pool.max.requests=2000
34
35  # ldap max lifetime in seconds for each connection in the pool
36  com.openexchange.cloudplugins.blackwhitelist.connector.ldap.pool.max.lifetime=120
37
38  # config to enable LDAP SSL connection over ldaps
39  com.openexchange.cloudplugins.blackwhitelist.connector.ldap.useSSL=false
40
41  # Setting to check if memory backed test mock should be started
42  # This connector is identified by cloudplugins_blwl_test
43  # Default: false
44  com.openexchange.cloudplugins.blackwhitelist.connector.ldap.test=false
```

File 12   /opt/open-xchange/etc/cloudplugins-forwards.properties

```
1  # Defines whether the forward REST API should be enabled or not.
2  #
3  # This parameter is optional and defaults to "false" (disabled).
4  #
5  # Example:
6  # com.openexchange.cloudplugins.admin.forwards.ws.enabled=true
7  com.openexchange.cloudplugins.admin.forwards.ws.enabled=false
```

File 13   /opt/open-xchange/etc/cloudplugins-keycloak.properties

```
1   # The token endpoint identified by the client
2   #
3   # Must be set for each client, default value: ""
4   #
5   # Example:
6   # com.openexchange.cloudplugins.keycloak.oauth.exampleClient.tokenEndpoint=http://
        localhost:8080/auth/realms/demo/protocol/openid-connect/token
7   com.openexchange.cloudplugins.keycloak.oauth.[client].tokenEndpoint=
8
9   # The clientId, if left empty, no clientId will be used
10  #
11  # Optional, default value: ""
12  #
13  # Example:
14  # com.openexchange.cloudplugins.keycloak.oauth.exampleClient.clientId=customerClient
15  com.openexchange.cloudplugins.keycloak.oauth.[client].clientId=
16
17  # The client secret. Must be provided if clientId is set.
18  #
19  # Optional, default value: ""
20  #
21  # Example:
22  # com.openexchange.cloudplugins.keycloak.oauth.exampleClient.clientSecret=123123
23  com.openexchange.cloudplugins.keycloak.oauth.[client].clientSecret=
24
25  # Max connections
26  #
27  # Optional, default value: 100
28  com.openexchange.cloudplugins.keycloak.oauth.maxConnections=
29
30  # Max connections per host
31  #
32  # Optional, default value: 100
33  com.openexchange.cloudplugins.keycloak.oauth.maxConnectionsPerHost=
34
35  # Connection timeout in ms
36  #
37  # Optional, default value in ms: 3000
38  com.openexchange.cloudplugins.keycloak.oauth.connectionTimeout=
39
40  # Socket read timeout in ms
41  #
42  # Optional, default value in ms: 6000
43  com.openexchange.cloudplugins.keycloak.oauth.socketReadTimeout=
44
45  # Refresh time in ms before expiry date
46  #
47  # Optional, default value is ms: 60000
48  com.openexchange.cloudplugins.keycloak.oauth.refreshTime=
```

File 14   /opt/open-xchange/etc/mailfilter-interceptor-drivers.properties

```
1  # This is the CloudPlugins MailFilterInterceptorDriver configuration
2  #
3  # Enable drivers by adding at least one brand in the brands property for that driver
4  # on the server level configuration. If no brand exists, the driver will not be registered
5  #
6  # Some drivers may also have additional configurations
7
8
9  ##### Driver Brand Lists #####
10 # Comma delimited lists
11
12 # Brands that the RedirectStatusDriver should be enabled for
13 #
14 # Optional - default is no brands
15 com.openexchange.cloudplugins.mailfilter.intercept.drivers.redirect.status.driver.brands=
16
17 # Brands that the RedirectBlacklistDriver should be enabled for
18 #
19 # Optional - default is no brands
20 com.openexchange.cloudplugins.mailfilter.intercept.drivers.redirect.blacklist.driver.
       brands=
21
22 ##### End Driver Brand Lists #####
23
24
25
26 ##### Driver Specific configurations #####
27
28 ### Redirect Blacklist Driver ###
29 #
30 # Set to true to enable config cascade for all properties of the Redirect Blacklist Driver
       .
31 # This should be used to set different configurations per brand or an even lower level.
32 # This property is NOT config cascade aware as it is used to control use of it.
33 # Even the driver brand list property can be config cascade if this is enabled which would
        be useful
34 # to enable it for a brand, but disable it for some users
35 #
36 # Optional - default is false
37 com.openexchange.cloudplugins.mailfilter.intercept.drivers.redirect.blacklist.driver.
       configcascade.enable=false
38 #
39 # The comma+space delimited list of regular expressions that are blacklisted for mail
       filter redirects.
40 # Java regular expressions are supported here, so non regex characters must be escaped.
41 # Example: abuse@.*, spam@domain\.com  <-- '.' has been escaped to match only '.' and not
       any char
42 # See for regex contructs: https://docs.oracle.com/javase/7/docs/api/java/util/regex/
       Pattern.html
43 # WARNING: You must use ", " (comma and a space) as the separator to separate the regexs
44 #
45 # Optional - default is empty which should only be left if this driver is not used
46 com.openexchange.cloudplugins.mailfilter.intercept.drivers.redirect.blacklist.driver.
       blacklist=
47 #
48 # Set to true to only blacklist true autoforward rules which are defined by having the "
       autoforward" flag.
49 # If set to false, then all redirect rules will be checked for the blacklist addresses
50 #
51 # Optional - default is true
52 com.openexchange.cloudplugins.mailfilter.intercept.drivers.redirect.blacklist.driver.
       autoforward.only=true
53 #
54 ### End Redirect Blacklist Driver ###
55
56 ##### End Driver Specific configurations #####
```

File 15   /opt/open-xchange/etc/cloudplugins-saml.properties

```
1  # The properties for cloud setup SAML bundle
2
3  ### General settings
4  ##############################################################################
5
6  # This setting is used to disable other authentication strategies and will internally
       register a DisabledAuthenticationService
7  # Default: false
8  com.openexchange.cloudplugins.saml.disableOtherAuthentication=false
9
10 # The id inside the saml response which holds the userinformation
11 com.openexchange.cloudplugins.saml.id="default_id"
12
13 # URL of where the users are redirected after logout
14 com.openexchange.cloudplugins.saml.logout.redirect.url="https://www.google.com"
15
16 # Regex to validate host HTTP Header value
17 com.openexchange.cloudplugins.saml.host.regex=[0-9a-zA-Z.]*
18
19 # Regex to validate user name
20 com.openexchange.cloudplugins.saml.user.regex=[0-9a-zA-Z.@]*
21
22 # The domain to use for OXaaS LDAP authentication operations.
23 # Uses the host name when empty or not set.
24 com.openexchange.cloudplugins.saml.domain=
25
26 # The URL to redirect to in case the SAML back-end fails to look up the authenticated user
       .
27 # When left empty or not set, an HTTP 500 error page is sent instead.
28 com.openexchange.cloudplugins.saml.failure.redirect=
29
30
31
32 ### Key-store/certificate settings
33 ##############################################################################
34
35 # The full path to a Java keystore containing the IdPs certificate.
36 #
37 # Default: <empty>
38 com.openexchange.cloudplugins.saml.keyStore=
39
40 # Password to open the keystore.
41 #
42 # Default: <empty>
43 com.openexchange.cloudplugins.saml.keyStorePass=
44
45 # The alias of the IdP certificate entry within the above specified
46 # keystore.
47 #
48 # Default: <empty>
49 com.openexchange.cloudplugins.saml.certAlias=
50
51 # The alias of the signingKey entry within the above specified
52 # keystore.
53 #
54 # Default: <empty>
55 com.openexchange.cloudplugins.saml.signingKeyAlias=
56
57 # The password of the signingKey entry within the above specified
58 # keystore.
59 #
60 # Default: <empty>
61 com.openexchange.cloudplugins.saml.signingKeyPassword=
62
63 # The alias of the decryptionKey entry within the above specified
64 # keystore.
65 #
66 # Default: <empty>
67 com.openexchange.cloudplugins.saml.decryptionKeyAlias=
68
69 # The password of the decryptionKey entry within the above specified
```

```
70   # keystore.
71   #
72   # Default: <empty>
73   com.openexchange.cloudplugins.saml.decryptionKeyPassword=
```

File 16   /opt/open-xchange/etc/settings/externalcontent.properties

```
1   io.ox.externalcontent//widget/widgetName=External Content
2   io.ox.externalcontent//widget/widgetName_en_GB=
3   io.ox.externalcontent//widget/widgetName_de_DE=
```

File 17   /opt/open-xchange/etc/oxaas-alias.properties

```
1    # Setting to control the uri of the tarent adapter
2    com.openexchange.oxaas.alias.tarent.uri=http://localhost
3
4    # Setting to control allowed domains
5    com.openexchange.oxaas.alias.allowed.domains=
6
7    # Setting to control if alias adapter should be in test mode (this means a mock is used)
8    com.openexchange.oxaas.alias.test=false
9
10   # Loglevel for the internal OkHttp3 client
11   # Allowed values are: NONE, BASIC, HEADERS, BODY
12   com.openexchange.oxaas.alias.tarent.loglevel=NONE
13
14   # Setting to control if Unsecured Https should be allowed or not
15   # Default: false
16   com.openexchange.oxaas.alias.tarent.allowUnsecuredHttps=false
17
18   # Master user needed to delete alias
19   com.openexchange.oxaas.alias.master.user=
20
21   # Master user password needed to delete alias
22   com.openexchange.oxaas.alias.master.password=
23
24   # Setting to control if a client cert shoul be loaded, must be in PKCS 12 format
25   # Can be mixed with com.openexchange.oxaas.alias.tarent.allowUnsecuredHttps
26   # allowUnsecuredHttps=true and clientcert.path=set
27   #    a client cert is used but the hostname is not verified and all server certs are
         trusted
28   # allowUnsecuredHttps=false and clientcert.path=set
29   #    a client cert is used, but hostname is verified and server certs must be trustable
30   # Default: empty
31   com.openexchange.oxaas.alias.tarent.ssl.clientcert.path=
32
33   # Setting that holds the password for the PKCS 12 container
34   # Default: empty
35   com.openexchange.oxaas.alias.tarent.ssl.clientcert.password=
36
37   # Default number of aliases to be configured by each userr
38   # Default: 15
39   com.openexchange.oxaas.aliasquota=15
```

File 18   /opt/open-xchange/etc/oxaas-mail-notification-templates.properties

```
1   # Config cascade-aware property to control the prefix of the users templates
2   # For each prefix and each user configured percentage
3   com.openexchange.oxaas.mail.quota.notify.prefix=notify.oxaas.over.quota
```

```
4
5   # Config cascade-aware property to control the prefix of the users templates
6   # For each prefix and each user configured percentage
7   com.openexchange.oxaas.mail.welcome.mail.notify.prefix=notify.oxaas.welcome.mail
8
9   # Config cascade-aware property to control the prefix of the users templates
10  # For each prefix and each user configured percentage
11  com.openexchange.oxaas.mail.removed.sent.spam.notify.prefix=notify.oxaas.disable.sent.spam
```

File 19   /opt/open-xchange/etc/oxaas-drive-quota-notification.properties

```
1   # Config-cascade aware setting to control the quotas that should be monitored
2   com.openexchange.oxaas.mail.quota.drive.quotas=90,100
3
4   # Config-cascade aware setting to control if the admin should also receive a mail, in case
            the filestore is context-wide
5   com.openexchange.oxaas.mail.quota.drive.updateAdmin=false
6
7   # Config-cascade aware setting to control how often a mail should be sent
8   # Default is 86400 (1 day)
9   # Set to 0 to ignore that and always send a new mail
10  com.openexchange.oxaas.mail.quota.drive.mail.seconds=86400
```

File 20   /opt/open-xchange/etc/oxaas-mail-unread.properties

```
1   # Value holding the usernames for basic authentication
2   # must be the username for basic auth split by ,
3   # e.g hosterone,hostertwo
4   com.openexchange.oxaas.mail.unread.ws.basic.usernames=
5
6   # Setting to control basic auth username
7   # example would be com.openexchange.oxaas.mail.unread.ws.basic.hosterone.brand=
            internalBrandForhosterone
8   #com.openexchange.oxaas.mail.unread.ws.basic.[username].brand=
9
10  # Setting to control basic auth password
11  # example would be com.openexchange.oxaas.mail.unread.ws.basic.hosterone.password=
            verySecretPassword
12  #com.openexchange.oxaas.mail.unread.ws.basic.[username].password=
```

File 21   /opt/open-xchange/etc/oxaas-mail.properties

```
1   # Value holding the usernames for basic authentication
2   # must be the username for basic auth split by ,
3   # e.g hosterone,hostertwo
4   com.openexchange.oxaas.mail.ws.basic.usernames=
5
6   # Setting to optimize the fetching of recentMessages
7   # If set to true, the virtual/all folder will be quried
8   # If set to false, the calculation is done in the middleware
9   # config-cascade aware
10  com.openexchange.oxaas.mail.ws.recentMessagesFromVirtualAll=false
11
12  # Setting to control basic auth username
13  # example would be com.openexchange.oxaas.mail.basic.hosterone.password=verySecretPassword
14  #com.openexchange.oxaas.mail.ws.basic.[username].password=
15
16  # Setting to control basic auth password
17  # example would be com.openexchange.oxaas.mail.basic.hosterone.brand=
```

```
      internalBrandForhosterone
18    #com.openexchange.oxaas.mail.ws.basic.[username].brand=
```