Cloud Plugins
**Release Notes for Release** 1.6.3

2018-01-18

# Copyright notice

# 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.

## 1.2 Install Package Repository

This delivery is part of a public software repository:

https://software.open-xchange.com/components/cloud-plugins/stable/1.6.3/DebianJessie
https://software.open-xchange.com/components/cloud-plugins/stable/1.6.3/RHEL6
https://software.open-xchange.com/components/cloud-plugins/stable/1.6.3/RHEL7

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

https://software.open-xchange.com/components/cloud-plugins/updates/1.6.3/DebianJessie
https://software.open-xchange.com/components/cloud-plugins/updates/1.6.3/RHEL6
https://software.open-xchange.com/components/cloud-plugins/updates/1.6.3/RHEL7

## 1.3 Build Dependencies

This delivery was build and tested with following dependencies:

```
frontend-7.8.4-rev18,plugins-1.3.3-rev1
```

## 1.4  Notice

### ℹ 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-aps2-upsell-ui

UI plugin for aps2 based upsell
Version: 1.6.3-2
Type: OX Frontend Plugin
Depends on:

```
open-xchange-appsuite-manifest (>=7.8.4)
```

### 2.1.1  Installation

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

```
<package installer> install open-xchange-aps2-upsell-ui
```

### 2.1.2  Configuration

For details, please see appendix  A
/opt/open-xchange/etc/settings/aps2-upsell.yml (page  20)

## 2.2  Package open-xchange-cloudplugins

The Open-Xchange cloud plugin bundles
Version: 1.6.3-2
Type: OX Middleware Plugin
Depends on:

```
libnet-ldap-perl
open-xchange-admin-soap-reseller (>=7.8.4)
open-xchange-cassandra (>=7.8.4)
open-xchange-rest (>=7.8.4)
```

Conficts with:

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

### 2.2.1 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.

### 2.2.2 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  2.2.8 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
```

#### 2.2.2.1 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.

#### 2.2.2.2 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`.

### 2.2.3 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
```

### 2.2.4 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.com243","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.

### 2.2.5  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`.

### 2.2.6  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.

### 2.2.7 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
```

### 2.2.8 LDAP Management

This provides methods to maintain data in the LDAP server.

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

#### 2.2.8.1 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.

### 2.2.9 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 2.2.3 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`.

### 2.2.10 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
```

#### 2.2.10.1   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.

#### 2.2.10.2   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.
```

#### 2.2.10.3   Data Format and Storage

The 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  }
```

### 2.2.10.4 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

### 2.2.11  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  2.2.5 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

### 2.2.12  Passwordchange

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

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

### 2.2.13  Installation

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

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

### 2.2.14  Configuration

For details, please see appendix  A
/opt/open-xchange/etc/plugin/mailstore-cloudplugins.properties (page  20)
/opt/open-xchange/etc/cloudplugins-authentication.properties (page  20)
/opt/open-xchange/etc/cloudplugins-master-auth-servlet.properties (page  20)
/opt/open-xchange/etc/cloudplugins-cassandra.properties (page  21)
/opt/open-xchange/etc/cloudplugins.properties (page  22)
/opt/open-xchange/etc/doveadm-config.properties (page  22)
/opt/open-xchange/etc/nginx-auth-servlet.properties (page  22)
/opt/open-xchange/etc/cloudplugins_report.properties (page  23)

## 2.3   Package open-xchange-cloudplugins-aps2-upsell

APS2 Upsell for Open-Xchange AppSuite
Version: 1.6.3-2
Type: OX Middleware Plugin
Depends on:

```
open-xchange-core (>=7.8.4)
```

### 2.3.1   Installation

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

```
<package installer> install open-xchange-cloudplugins-aps2-upsell
```

### 2.3.2   Configuration

For details, please see appendix  A
/opt/open-xchange/etc/cloudplugins-aps2-upsell.properties (page  23)

## 2.4   Package open-xchange-cloudplugins-blackwhitelist-ldap

Impelementation of blacklist whitelist for cloudplugins within LDAP
Version: 1.6.3-2
Type: OX Middleware Plugin
Depends on:

```
open-xchange-cloudplugins (>=1.6.3)
open-xchange-core (>=7.8.4)
open-xchange-plugins-blackwhitelist (>=1.3.0)
```

### 2.4.1   Installation

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

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

### 2.4.2   Configuration

For details, please see appendix  A
/opt/open-xchange/etc/cloudplugins-blackwhitelist-ldap.properties (page  24)

## 2.5   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: 1.6.3-2
Type: OX Middleware Plugin
Depends on:

```
open-xchange-cloudplugins (>=1.6.3)
open-xchange-saml-core (>=7.8.4)
```

### 2.5.1   Installation

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

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

### 2.5.2   Configuration

For details, please see appendix  A
/opt/open-xchange/etc/cloudplugins-saml.properties (page  25)

## 2.6   Package open-xchange-externalcontent-ui

External content portal plugin
Version: 1.6.3-2
Type: OX Frontend Plugin
Depends on:

```
open-xchange-appsuite-manifest (>=7.8.4)
```

### 2.6.1   Installation

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

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

### 2.6.2   Configuration

For details, please see appendix  A
/opt/open-xchange/etc/settings/externalcontent.properties (page  25)

## 2.7   Package open-xchange-oxaas-alias

OXaaS alias bundle This package implements OXaaS alias handling.
Version: 1:1.6.3-2
Type: OX Middleware Plugin
Depends on:

```
open-xchange-admin (>=7.8.4)
open-xchange-core (>=7.8.4)
```

### 2.7.1   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.

### 2.7.2 Installation

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

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

### 2.7.3 Configuration

For details, please see appendix A
/opt/open-xchange/etc/oxaas-alias.properties (page 26)

## 2.8 Package open-xchange-oxaas-mail-notify-ws

OXaaS notification mail servlet bundle This package implements the OXaaS mail notification gen-
eration servlet which will return several mails via a REST API: - /api/oxaas/notification/mail/quo-
ta/{usercontext}/ (JSON body: {"quota_threshold":"..."}) - /api/oxaas/notification/mail/welcomemail/{usercontext}/
- /api/oxaas/notification/mail/disable_sent_spam_notification/{usercontext}/
Version: 1:1.6.3-2
Type: OX Middleware Plugin
Depends on:

```
open-xchange-cloudplugins (>=1.6.3)
open-xchange-core (>=7.8.4)
open-xchange-imap (>=7.8.4)
open-xchange-rest (>=7.8.4)
open-xchange-smtp (>=7.8.4)
```

### 2.8.1 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`

- 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

### 2.8.2 Installation

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

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

### 2.8.3   Configuration

For details, please see appendix  A
/opt/open-xchange/etc/oxaas-mail-notification-templates.properties (page  26)
/opt/open-xchange/etc/oxaas-drive-quota-notification.properties (page  26)

### 2.8.4   Templates

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

## 2.9   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: 1:1.6.3-2
Type: OX Middleware Plugin
Depends on:

```
open-xchange-cloudplugins (>=1.6.3)
open-xchange-core (>=7.8.4)
open-xchange-imap (>=7.8.4)
```

### 2.9.1   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

### 2.9.2   Installation

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

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

### 2.9.3 Configuration

For details, please see appendix A
/opt/open-xchange/etc/oxaas-mail-unread.properties (page 27)

## 2.10 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: 1:1.6.3-2
Type: OX Middleware Plugin
Depends on:

```
open-xchange-cloudplugins (>=1.6.3)
open-xchange-core (>=7.8.4)
open-xchange-imap (>=7.8.4)
```

### 2.10.1 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

### 2.10.2 Installation

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

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

### 2.10.3 Configuration

For details, please see appendix A
/opt/open-xchange/etc/oxaas-mail.properties (page 27)

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 1.6.2. Some of the announced bug fixes may have already been fixed at the existing code-base via Patch Releases.

**CP-68   Updated mustache library in 1.6.2 requires Java 8**
Status: Done
Affected Packages: open-xchange-cloudplugins-blackwhitelist-ldap

**CP-69   .aps2.upsell: wrong property name lookup**
Status: Done
Affected Packages: open-xchange-cloudplugins-aps2-upsell

# 4   Changes relevant for Operators

## 4.1   Changes of Behaviour

**Change #CP-63   Add support for oxMSISDN and oxCustomId for user lookup**
Status: Done
Affected Packages: open-xchange-cloudplugins

**Change #CP-64   REST API for finding a user with optional attributes**
Status: Done
Affected Packages: open-xchange-cloudplugins

**Change #CP-65   Add REST CRUD API for oxMSISDN and oxCustomId**
Status: Done
Affected Packages: open-xchange-cloudplugins

**Change #CP-67   Documentation for new Admin Rest API**
Status: Done
Affected Packages: open-xchange-cloudplugins
Labels: documentation

# 5   Tests

Open-Xchange has successfully verified all bug fixes that could be reproduced within a lab environment.
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 behaviour. Unless explicitly stated within this document, we do not expect any side-effects.

## 5.1   Test Report

**Test T278051   Installation setup of Cassandra (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed

**Test T278052   Login table creation in Cassendra (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed

**Test T278053   Record logging of Http protocol with valid credentials (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Jira CP-4

**Test T278054** **Record logging of Http protocol with invalid credentials (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Jira CP-5

**Test T278055** **Record logging of Smtp protocol with valid credentials (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Jira CP-4

**Test T278056** **Record logging of Smtp protocol with invalid credentials (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Jira CP-5

**Test T278057** **Record logging of IMAP protocol with valid credentials (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Jira CP-4

**Test T278058** **Record logging of IMAP protocol with invalid credentials (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Jira CP-5

**Test T278059** **Record reset counter for IMAP protocol on successful login (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Jira CP-5

**Test T278060** **Record reset counter for SMTP protocol on successful login (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Jira CP-5

**Test T278061** **Record reset counter for Http protocol on successful login (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Jira CP-5

**Test T278062** **Logging the Upgrade time of Drive (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed

**Test T278063** **Logging the Downgrade time of Drive (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed

**Test T278064** **Record the creation time of Email Alias (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Jira CP-14

**Test T278065** **Record the deletion time of Email Alias (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Jira CP-14

**Test T278066** **User authentication without ldap binding (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Jira CP-34(CP-34)

**Test T278067** **Record the quota information in Quota Usage table in Cassandra (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Verify the quota logging in database
Jira MW-442

**Test T278383    User master authentication (Cloud_Plugins_1.6.3_rev_2)**
Status: Passed
Jira CP-1

# 6    Fixed Bugs

CP-68, CP-69,

# A    Configuration Files

**File 1    /opt/open-xchange/etc/settings/aps2-upsell.yml**

```
1   # Signal Upsell availability for certain capabilities
2   io.ox/core//upsell:
3       enabled:
4           active_sync: true
5           webmail: true
6           tasks: true
7           portal: true
8           infostore:true
9           contacts: true
10          calendar: true
11          guard: true
12          messenger:true
13          text: true
14
15  # Put in teaser texts in sidebars for certain capabilities
16
17  com.parallels/aps2/upsell//teaser/sidebars:
18      mail:
19          active_sync:
20              capability: active_sync
21              teaser_en_US: Sync with your phone
22              teaser_de_DE: Synchronisation mit Ihrem Telefon
23          guard:
24              capability: guard
25              teaser_en_US: Protect your mails
26              teaser_de_DE: Beschützen Sie Ihre E-Mails
27          space:
28              capability: always
29              teaser_en_US: Get more storage
30              teaser_de_DE: Holen Sie sich mehr Speicherplatz
31      contacts:
32          active_sync:
33              capability: active_sync
34              teaser_en_US: Sync with your phone
35              teaser_de_DE: Synchronisation mit Ihrem Telefon
36      calendar:
37          active_sync:
38              capability: active_sync
39              teaser_en_US: Sync with your phone
40              teaser_de_DE: Synchronisation mit Ihrem Telefon
41      tasks:
42          active_sync:
43              capability: active_sync
44              teaser_en_US: Sync with your phone
45              teaser_de_DE: Synchronisation mit Ihrem Telefon
46      drive:
47          guard:
48              capability: guard
49              teaser_en_US: Protect your files
50              teaser_de_DE: Beschützen Sie Ihre Dateien
51          text:
52              capability: text
```

```
53            teaser_en_US: Edit files in your browser
54            teaser_de_DE: Bearbeiten Sie Dateien direkt im Browser
55        space:
56            capability: always
57            teaser_en_US: Get more storage
58            teaser_de_DE: Holen Sie sich mehr Speicherplatz
```

### File 2    /opt/open-xchange/etc/plugin/mailstore-cloudplugins.properties

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

### File 3    /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 4    /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 5    /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=
```

### File 6   /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 7   /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 8   /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.@]*
```

## File 9   /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
```

**File 10   /opt/open-xchange/etc/cloudplugins-aps2-upsell.properties**

```
1   com.openexchange.cloudplugins.aps2.upsell.apiEndpoint=
2   com.openexchange.cloudplugins.aps2.upsell.apiClientId=
3   com.openexchange.cloudplugins.aps2.upsell.apiClientToken=
4
5   com.openexchange.cloudplugins.aps2.upsell.featureLevels=webmail, basic, advanced, pro
6   com.openexchange.cloudplugins.aps2.upsell.features=webmail, portal, contacts, calendar,
        tasks, activeSync, documents, guard, messenger
7
8   com.openexchange.cloudplugins.aps2.upsell.names.featureLevel.webmail.en_US=Bronze
9   com.openexchange.cloudplugins.aps2.upsell.names.featureLevel.basic.en_US=Silver
10  com.openexchange.cloudplugins.aps2.upsell.names.featureLevel.advanced.en_US=Gold
11  com.openexchange.cloudplugins.aps2.upsell.names.featureLevel.pro.en_US=Platinum
12
13  com.openexchange.cloudplugins.aps2.upsell.names.featureLevel.webmail.de_DE=Bronze
14  com.openexchange.cloudplugins.aps2.upsell.names.featureLevel.basic.de_DE=Silber
15  com.openexchange.cloudplugins.aps2.upsell.names.featureLevel.advanced.de_DE=Gold
16  com.openexchange.cloudplugins.aps2.upsell.names.featureLevel.pro.de_DE=Platinum
17
18
19
20  com.openexchange.cloudplugins.aps2.upsell.names.features.webmail.en_US=Mail
21  com.openexchange.cloudplugins.aps2.upsell.names.features.portal.en_US=Portal
22  com.openexchange.cloudplugins.aps2.upsell.names.features.contacts.en_US=Address Book
23  com.openexchange.cloudplugins.aps2.upsell.names.features.calendar.en_US=Calendar
24  com.openexchange.cloudplugins.aps2.upsell.names.features.tasks.en_US=Tasks
25  com.openexchange.cloudplugins.aps2.upsell.names.features.activeSync.en_US=Active Sync
26  com.openexchange.cloudplugins.aps2.upsell.names.features.documents.en_US=Documents
27  com.openexchange.cloudplugins.aps2.upsell.names.features.guard.en_US=Guard
28  com.openexchange.cloudplugins.aps2.upsell.names.features.messenger.en_US=Messenger
29
30
31  com.openexchange.cloudplugins.aps2.upsell.names.features.webmail.de_DE=E-Mail
32  com.openexchange.cloudplugins.aps2.upsell.names.features.contacts.de_DE=Adressbuch
33  com.openexchange.cloudplugins.aps2.upsell.names.features.calendar.de_DE=Kalender
34  com.openexchange.cloudplugins.aps2.upsell.names.features.tasks.de_DE=Aufgaben
35  com.openexchange.cloudplugins.aps2.upsell.names.features.activeSync.de_DE=Mobile
        Synchronisation
36  com.openexchange.cloudplugins.aps2.upsell.names.features.documents.de_DE=Online Office
```

**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-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 13   /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 14   /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=
```

### File 15   /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 16   /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 17   /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 18   /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 control basic auth username
7   # example would be com.openexchange.oxaas.mail.basic.hosterone.password=verySecretPassword
8   #com.openexchange.oxaas.mail.ws.basic.[username].password=
9
10  # Setting to control basic auth password
11  # example would be com.openexchange.oxaas.mail.basic.hosterone.brand=
        internalBrandForhosterone
12  #com.openexchange.oxaas.mail.ws.basic.[username].brand=
```