

Release Notes

/Amster 5.5.2

Latest update: 5.5.2

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Abstract

Notes covering new features, fixes and known issues for the ForgeRock® Access Management command-line interface, Amster.



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Preface

Amster is a lightweight command-line interface, ideal for use in DevOps processes, such as continuous integration and deployment.

Read these release notes before you install Amster. The information contained in these release notes cover prerequisites for installation, known issues and improvements to the software, changes and deprecated functionality, and other important information.

About ForgeRock Identity Platform™ Software

ForgeRock Identity Platform™ serves as the basis for our simple and comprehensive Identity and Access Management solution. We help our customers deepen their relationships with their customers, and improve the productivity and connectivity of their employees and partners. For more information about ForgeRock and about the platform, see https://www.forgerock.com.



Chapter 1 What's New

This chapter covers new features and improvements in Amster.

1.1. Maintenance Releases

ForgeRock maintenance releases contain a collection of fixes and minor RFEs that have been grouped together and released as part of our commitment to support our customers. For general information on ForgeRock's maintenance and patch releases, see Maintenance and Patch Availability Policy.

Amster 5.5.2

• Amster 5.5.2 is the latest release targeted for Amster 5.5 deployments and can be downloaded from the *ForgeRock Backstage* website. To view the list of fixes in this release, see Key Fixes in Amster 5.5.2.

Note

Please note that version 5.5.1 does not exist and was never released. Amster 5.5.2 is an upgraded version for 5.5.0.

1.2. New Features

Amster 5.5.2

Improved Error Messages for the install-openam Command

Amster 5.5.2 improves the error messages showing when installing AM is unsuccessful.

For more information, see "Troubleshooting Access Management Installations" in the User Guide

Amster 5.5

• Support for AM 5.5 or Newer Only

Amster 5.5.2 supports exporting and importing configuration from AM 5.5 or newer.



If you have a previous version of Amster:

- 1. Perform a fresh installation of Amster 5.5.2. For more information, see "Installing Amster" in the *User Guide*.
- 2. Migrate any Amster Groovy scripts from the previous Amster installation. Take into account these Release Notes for possible changes in functionality.
- 3. Migrate any ISON configuration files that were exported from the following versions of AM:
 - AM 5
 - AM 5.1.0
 - AM 5.1.1

A configuration file upgrade tool is provided in the AM 5.5.2 ZIP file. For more information on converting configuration files for import into AM 5.5, see the README.md file in the Config-Upgrader-5.5.2.zip file.

- 4. Test the new Amster installation
- 5. Delete the previous amster installation. For example:
 - \$ rm -rf /path/to/amster 5.0

• Support for Installing Access Management With an External Configuration and User Store

Amster 5.5 supports installing AM with an external configuration store. When you install AM with an external configuration store, you must also use an external user store. By default, the external user store is the same directory server instance as the external configuration store. You can, however, specify a different user store.

For more information about installing AM with an external configuration store, see Installing AM With an External Configuration Store in the *User Guide*.

For more information about supported user stores, see the *ForgeRock Access Management Release Notes*.

For more information about the configuration options supported by Amster, see "Command-Line Reference" in the *User Guide*.



Chapter 2 Before You Install

This section covers software and hardware prerequisites for installing and running Amster.

ForgeRock supports customers using the versions specified here. Other versions and alternative environments might work as well. When opening a support ticket for an issue, however, make sure you can also reproduce the problem on a combination covered here.

2.1. Operating System Requirements

ForgeRock supports customers using ForgeRock Access Management server software on the following operating system versions:

Supported Operating Systems

Operating System	Version
Red Hat Enterprise Linux, Centos, Amazon Linux	6, 7
Amazon Linux	Amazon Linux AMI 2017.03
SuSE	11
Ubuntu	14.04 LTS, 16.04 LTS
Solaris x64	10, 11
Solaris Sparc	10, 11
Windows Server	2012, 2012 R2, 2016

2.2. Java Requirements

JDK Requirements

Vendor	Version
Oracle JDK	8
IBM SDK, Java Technology Edition (Websphere only)	8
OpenJDK	8



2.3. Special Requests

If you have a special request regarding support for a combination not listed here, contact ForgeRock at info@forgerock.com.



Chapter 3

Changes and Deprecated Functionality

This chapter covers both major changes to existing functionality, and also deprecated and removed functionality.

3.1. Important Changes to Existing Functionality

Important Changes in Amster 5.5.2

There are no important changes in functionality in this release, only bug fixes.

Important Changes in Amster 5.5.0

There are no important changes in functionality in this release, only bug fixes.

3.2. Deprecated Functionality

Deprecated Functionality in Amster 5.5.2

No functionality has been deprecated in this release.

Deprecated Functionality in Amster 5.5.0

• No functionality has been deprecated in this release.

3.3. Removed Functionality

Removed Functionality in Amster 5.5.2

No features were removed in this release.

Removed Functionality in Amster 5.5.0

PolicyAgentPwd Option Removed



The PolicyAgentPwd option has been removed from the install-openam option, since it is no longer required by AM.



Chapter 4

Key Fixes, Limitations, and Known Issues

4.1. Key Fixes

The following issues are fixed in this release:

Key Fixes in Amster 5.5.2

The following important issues were fixed in this release:

- OPENAM-10667: Amster should be able to add second instance of AM to existing one
- OPENAM-11159: OpenAM Amster export/import for Site have import errors
- OPENAM-11876: Amster has a timeout limit of 10 second and it is not configurable
- OPENAM-12168: Amster tries to load custom service subconfiguration before loading realm level configurations
- OPENAM-12912: Upgrade 5.5.x --> 6.x fails if Amster has been used at some point to export/import
- OPENAM-12923: Amster import bug with chain ("Unable to update SMS config")
- OPENAM-13084: Entity Import ordering in amster
- OPENAM-13590: Document or Improve Amster for org.forgerock.amster.com.iplanet.am.lbcookie.value
- OPENAM-15510: Generic amster error message "No Base Entity dc=config,dc=forgerock,dc=com found" needs to detail the actual ldap error - during install-openam
- OPENAM-15687: Session endpoint is searching for a long value in CTS that is stored as a string

Key Fixes in Amster 5.5.0

The following important issues were fixed in this release:

- OPENAM-11307: Amster import should not set the com.iplanet.am.version property
- OPENAM-10689: Installing AM using Amster failed when using an external data store
- OPENAM-10664: Amster does not support configuration of an external user store



4.2. Limitations

The following important issues remained open at the time release 5.5.2 became available:

Limitations in Amster 5.5.2

• There are no limitations in functionality in this release.

Limitations in Amster 5.5.0

• Private Key Connections to Access Management Can Fail

Installing or upgrading AM appends the contents of the /path/to/openam/amster_rsa.pub file to the /path/to/openam/authorized_keys file. The contents of the authorized_keys file resemble the following:

```
from="127.0.0.0/24,::1" ssh-rsa AAAAB3NzaCly...
```

The from attribute restricts the communication between AM and Amster clients that communicate using the 127.0.0.0/24 network. If your AM server is not configured in the loopback interface, Amster connections may fail with an error resembling the following:

```
am> connect --private-key /home/fr/openam/amster_rsa https://openam.example.com:8443/openam
Unexpected response from OpenAM
[code:401, reason:Unauthorized, message:Authentication Failed]
```

To work around this problem, remove or update the from attribute to suit your environment as follows:

• Remove the from attribute, leaving only the key. For example:

```
ssh-rsa AAAAB3NzaCly...
```

In this example, the Amster client holding the appropriate private key can communicate with AM regardless of their IP address or DNS domain.

• Update the loopback network specified in the from attribute with the DNS domain configured for AM. For example:

```
$ cat /etc/hosts | grep -i openam
192.168.1.94  openam.example.com

$ vi /path/to/openam/authorized_keys
from="*.example.com" ssh-rsa AAAAB3NzaCly...
```

In this example, the Amster client holding the appropriate private key can communicate with AM if they are part of the .example.com DNS domain.

Refer to the Linux documentation for more information about patterns supported by the from attribute.

Amster Installs Single-server Instances of Access Management



To create instances and add them to a multi-server site deployment, see the *ForgeRock Access Management Install Guide*.

• Importing Resources Containing Slash Characters Can Fail

Some Access Management resources have names that can contain slash characters (\prime), for example policy names, application names, and SAML v2.0 entities. These slash characters can cause unexpected behavior and failures in Amster when importing into Access Management instances running on Apache Tomcat.

To workaround this issue, configure Apache Tomcat to allow encoded slash characters by updating the CATALINA OPTS environment variable. For example:

On Unix/Linux systems:

```
$ export CATALINA_OPTS= \
"-Dorg.apache.tomcat.util.buf.UDecoder.ALLOW_ENCODED_SLASH=true"
$ startup.sh
```

On Windows systems:

```
C:\> set CATALINA_OPTS= ^
   "-Dorg.apache.tomcat.util.buf.UDecoder.ALLOW_ENCODED_SLASH=true"
C:\> startup.bat
```

Warning

It is strongly recommended that you do not enable org.apache.tomcat.util.buf.UDecoder.ALLOW_ENCODED_SLASH when running AM in production as it introduces a security risk on Apache Tomcat.

For more information, see How do I safely enable the org.apache.tomcat.util.buf.UDecoder.ALLOW_ENCODED_SLASH setting in AM/OpenAM (All Versions)? in the ForgeRock Knowledge Base.

• [INFO] Messages Showing On SuSE On Amster Start Up

Running Amster on SuSE may produce [INFO] messages, for example:

```
# ./amster
[INFO] Unable to bind key for unsupported operation: up-history
[INFO] Unable to bind key for unsupported operation: down-history
[INFO] Unable to bind key for unsupported operation: up-history
[INFO] Unable to bind key for unsupported operation: down-history
OpenAM Shell (5.5.2 build c9ca9450a9, JVM: 1.8.0_65)
Type ':help' or ':h' for help.
am>
```

These messages are caused by the keyboard mappings configured in the <a href=//etc/inputrc file and can safely be ignored, as they do not affect functionality.



4.3. Known Issues

Known Issues in Amster 5.5.2

• No issues remained open when Amster 5.5.2 became available.

Known Issues in Amster 5.5.0

• No issues remained open when Amster 5.5.0 became available.



Chapter 5 Documentation Updates

The following table tracks changes to the documentation set following the release of Amster 5.5.2:

Documentation Change Log

Date	Description
2020-05-06	Initial release of Amster 5.5.2.
2019-07-16	Added missingconnection-timeout option.
2018-06-04	Added a warning admonition about enabling -Dorg.apache.tomcat.util.buf .UDecoder.ALLOW_ENCODED_SLASH in production. For more information, see "Limitations".
2018-01-09	Added a brief paragraph on how to pass variables into an Amster script. See "Scripting" in the $User\ Guide$
2018-01-04	Added a brief paragraph on how to invoke a script directly in Amster. See "Scripting" in the <i>User Guide</i>
2017-10-25	Initial release of Amster 5.5.0.



Appendix A. Getting Support

For more information or resources about OpenAM and ForgeRock Support, see the following sections:

A.1. Accessing Documentation Online

ForgeRock publishes comprehensive documentation online:

- The ForgeRock Knowledge Base offers a large and increasing number of up-to-date, practical articles that help you deploy and manage ForgeRock software.
 - While many articles are visible to community members, ForgeRock customers have access to much more, including advanced information for customers using ForgeRock software in a mission-critical capacity.
- ForgeRock product documentation, such as this document, aims to be technically accurate and complete with respect to the software documented. It is visible to everyone and covers all product features and examples of how to use them.

A.2. Using the ForgeRock.org Site

The ForgeRock.org site has links to source code for ForgeRock open source software, as well as links to the ForgeRock forums and technical blogs.

If you are a *ForgeRock customer*, raise a support ticket instead of using the forums. ForgeRock support professionals will get in touch to help you.



A.3. Getting Support and Contacting ForgeRock

ForgeRock provides support services, professional services, training through ForgeRock University, and partner services to assist you in setting up and maintaining your deployments. For a general overview of these services, see https://www.forgerock.com.

ForgeRock has staff members around the globe who support our international customers and partners. For details on ForgeRock's support offering, including support plans and service level agreements (SLAs), visit https://www.forgerock.com/support.