

# List of third-party apps used by ADSelfService Plus

[manageengine.com/products/self-service-password/](https://manageengine.com/products/self-service-password/)



## Document overview

ADSelfService Plus is an identity security solution to ensure secure and seamless access to enterprise resources and establish a Zero Trust environment. With capabilities such as adaptive multi-factor authentication, single sign-on, self-service password management, a password policy enhancer, remote work enablement and workforce self-service, ADSelfService Plus provides your employees with secure, simple access to the resources they need. ADSelfService Plus helps keep identity-based threats out, fast-tracks application onboarding, improves password security, reduces help desk tickets, and empowers remote workforces.

Database		
Database type	Version	Purpose
PostgreSQL database	14.12	Stores product configuration details, reports, AD domain and object details, and other product-related details

Programming software		
Programming technology type	Version	Purpose
Java Runtime Environment (JRE)	Azul Zulu 8.78.0.19 (OpenJDK Version 1.8.0_412)	ADSelfService Plus is built using Java programming language. JRE is necessary to run the solution in the installed machines.

Web server		
Web server type	Version	Purpose
Apache Tomcat Server	9.0.98	Enables access to the product through a web browser or other web-based mobile or desktop applications

Applications		
Application type	Version	Purpose
7za.exe	21.06	Archives files for database backups and unpacking PPM patches for updates and deployments
wrapper.exe	3.5.51	Enables the application to integrate with OS service management tools, allowing administrators to easily start, stop, and configure the application
RemoteExec.exe	1.26.0.0	Facilitates remote execution of commands, primarily on domain controllers, to support password changes through PowerShell. Additionally, it manages the ADSelfService Plus login agent on machines.
remcom.exe	1.0.0.1	Remotely installs the ADSelfService Plus Windows login agent on end-user and server machines, enabling MFA enforcement

Java libraries		
JAR file	Version	Purpose
activation.jar	1.0.2	Manages MIME types and content types, primarily for processing email attachments using the javax.mail API
annotations-23.0.0.jar	23.0.0	Used for annotations dependency
antisamy-1.7.5.jar	1.7.5	Cleanses HTML code coming from untrusted sources
batik-all-1.16.jar	1.16	Enables display, generation, or manipulation of SVG images
bcpkix-jdk18on-1.77.jar	1.77	Used for SSL certificate generation, encryption and decryption for SAML and MDM, ensuring secure data transmission
bcprov-jdk18on-1.77.jar	1.77	Used for SSL certificate generation, as well as encryption and decryption in SAML and MDM, ensuring secure data transmission
bcutil-jdk18on-1.77.jar	1.77	Used for encryption or decryption and certificate generation
caffeine-2.9.3.jar	2.9.3	Maintains a Java cache for database calls, implemented as JCACHE (JSR-107)
checker-qual-3.39.0.jar	3.39.0	The runtime dependency of webauthn4j-core-0.21.8.RELEASE.jar is used for FIDO authentication and helps detect issues during both compilation and runtime

chronicle-queue-5.21ea5-all.jar	5.21	Provides a memory-mapped enhanced sequence
commons-beanutils-1.9.4.jar	1.9.4	Used for a dependency on the Struts framework
commons-chain-1.2.jar	1.2	Organizes the execution of complex processing flows in Java
commons-codec-1.7.jar	1.7	Used for encoding or decoding
commons-collections-3.2.2.jar	3.2.2	Utility package for Java
commons-collections4-4.4.jar	4.4	Used to passively collect expiring maps and lists
commons-compress-1.26.0.jar	1.26.0	Compresses files
commons-csv-1.9.0.jar	1.9	Used to read and write CSV files
commons-digester.jar	1.8	Manipulates XML documents
commons-fileupload-1.5.jar	1.5	Fetches the uploaded file in multipart and gets uploaded file details
commons-httpclient-3.0-rc1.jar	3.0-rc1	Establishes HTTP connection
commons-imaging-1.0-alpha1.jar	1.0-alpha1	Used to read and write a variety of image formats
commons-io-2.11.0.jar	2.11.0	Used to handle files
commons-javaflow-20060411.jar	1.0	Used for JasperReports to execute the Export option
commons-lang-2.4.jar	2.4	Manipulates strings and numbers
commons-lang3-3.12.0.jar	3.12.0	Manipulates strings and numbers
commons-logging-api.jar	1.1	Used for logging dependency
commons-pool2-2.4.2.jar	2.4.2	Maintains Java objects in a defined pool structure and maintains the object pool
commons-text-1.10.0.jar	1.10.0	Manipulates strings
commons-validator-1.7.jar	1.7	Validates common user inputs like formats of IP addresses, email IDs, domain names, etc.
concurrent-trees-2.6.1.jar	2.6.1	Algorithm used to maintain tree data
converter-jackson-2.9.0.jar	2.9.0	Used for DUO Universal prompt authentication

cssparser-0.9.27.jar	0.9.27	Applies CSS filter
cupv10k-runtime.jar	1.2	Used during XML validation with XSD
dd-plist.jar	1.20.0	Manipulates XML documents
dnsjava-2.0.6.jar	2.0.6	Performs IP address-based checks
duo-universal-sdk-1.1.3.jar	1.1.3	Pushes the ADSelfService Plus macOS login agent onto macOS machines
duoweb.jar	2.0	Enables MFA using Duo Security
esapi-2.5.1.0.jar	2.5.1.0	Encodes outputs
failureaccess-1.0.2.jar	1.0.2	Used as a dependency for the Guava jar component
fast-uuid-0.1.jar	0.1	Used to parse and write UUIDs
Filters.jar	2.0.235	Processes CAPTCHA image
gcm-server.jar	1.0.2	Sends push notifications
google-api-client-1.20.0.jar	1.20.0	Syncs domain password with Google Workspace account
google-api-services-admin-directory_v1-rev53-1.20.0.jar	1.20.0	Syncs domain password with Google Workspace account
google-auth-library-credentials-1.24.1.jar	1.24.1	Used as a dependency for the Guava jar component
google-http-client-1.20.0.jar	1.20.0	Syncs domain password with Google Workspace account
google-http-client-gson-1.44.2.jar	1.44.2	Used as a dependency for the Guava jar component
google-http-client-jackson2-1.20.0.jar	1.20.0	Syncs domain password with Google Workspace account
google-oauth-client-1.33.3.jar	1.33.3	Syncs domain password with Google Workspace account
gson-2.10.jar	2.10	Manipulates JSON files
guava-33.3.0-jre.jar	33.3.0	Required by the google-server.jar file
htmllexer.jar	2.0	Handles HTML files
htmlparser.jar	2.0	Handles HTML files with advanced filter options
httpClient-4.5.13.jar	4.5.13	Establishes HTTP URL connections to the external clients from the server
httpcore-4.4.9.jar	4.4.9	Establishes HTTP URL connections to the external clients from the server

jackson-annotations-2.14.2.jar	2.14.2	Manipulates JSON files
jackson-core-2.14.2.jar	2.14.2	Manipulates JSON files
jackson-databind-2.14.2.jar	2.14.2	Manipulates JSON files
jackson-dataformat-cbor-2.14.2.jar	2.14.2	Used for FIDO authentication
jasperreports-javaflow-4.0.1.jar	4.0.1	Exports dynamic reports
java-jwt-4.2.1.jar	4.2.1	Used for DUO Universal Prompt authentication
javassist-3.23.1-GA.jar	3.23.1	Manipulates Java bytecode
javax.mail-1.6.1.jar	1.6.1	Used for SMTP protocol dependency
bcrypt-0.4.jar	0.4	Implements bcrypt mechanism
captcha-2.0-alpha-1-jdk5.jar	2.0-alpha-1-jdk5	Gets CAPTCHA image
jcifs-1.3.17.jar	1.3.17	Used for NTLM authentication
jcommon.jar	1.0	Generates the dashboard image —jfree dependency
jdom-1.0.jar	1.0	Builds SAML responses or requests
jfreechart.jar	1.0	Generates the dashboard image
jgroups-3.6.16.Final.jar	3.6.16.Final	Manipulates XML document
jjwt-0.9.0.jar	0.9.0	Creates and verifies JSON web tokens
joda-time-2.2.jar	2.2	Manipulates time settings used for SAML authentication and schedulers
json.jar	20231013	Handles data of JSON format
json_simple-1.1.jar	1.1	Required for google-server.jar
jstl-1.2.jar	1.2	Used by the Apache Struts framework
jt400.jar	7.1.0.8	Syncs domain passwords with IBM accounts
jta-1.1.jar	1.1	Used by the database transaction manager
jtids-1.3.1.jar	1.3.1	Used as a dependency for jt400.jar
jtidy-1.0.5.jar	1.0.5	Used as a JTidy HTML filter
kerby-asn1-2.0.3.jar	2.0.3	Used for FIDO authentication
kotlin-stdlib-1.7.21.jar	1.7.21	Used for Duo Universal Prompt authentication

kryo-4.0.1.jar	4.0.1	Used as an object serialization library
LGoodDatePicker-11.2.1.jar	11.2.1	Provides Date Picker calculation for the backend
libGoogleAnalyticsServices.jar	1.7.0-google-v5	Gets ADSelfService Plus mobile app crash analytics
maverick-legacy-client-all.jar	1.7.56	Pushes the ADSelfService Plus macOS login agent onto macOS machines
MimeUtil.jar	2.1.3	Gets the MIME type of uploaded files
minlog-1.3.0.jar	1.3.0	Used for logging dependency
mssql-jdbc-8.4.1.jre8.jar	8.4.1	Used as a connector for the Microsoft JDBC Driver for SQL server
mysql-connector.jar	5.1.21	Establishes MySQL database connections
neko-htmlunit-3.11.2.jar	3.11.2	Escapes and filters HTML content
netty-all-4.1.51.Final.jar	4.1.51.Final	Used for TCP or UDP protocol dependency
nimbus-jose-jwt-9.25.6.jar	9.25.6	Used as a JSON Web Tokens library
not-yet-commons-ssl-0.3.17.jar	0.3.17	Used for SSL dependency
objenesis-2.1.jar	2.1	Used as a Class Object creation Library
ojdbc8-19.15.0.0.1.jar	19.15.0.0.1	Used as a Microsoft JDBC Driver Connection Library
okhttp-4.10.0.jar	4.10.0	Establishes HTTP connections to Duo Security
okio-jvm-3.2.0.jar	3.2.0	Used for Duo Universal Prompt authentication
openpdf-1.3.36.jar	1.3.36	Edits and creates PDF files
opensaml-2.6.4.jar	2.6.4	Implements SAML protocol
openws-1.5.1.jar	1.5.1	Implements SAML protocol
org.eclipse.wst.xml.xpath2.processor_1.2.1.jar	1.2.0	Manipulates XML document
oro-2.0.8.jar	2.0.8	Used by the Apache Struts framework
pdf-transcoder.jar	1.0beta2	Exports SVG image as a PDF file
poi-3.14-20160307.jar	3.14	Manipulates various file formats
postgresql-42.5.6.jar	42.5.6	Syncs domain password with the PostgreSQL database account
pushy-0.14.1.jar	0.14.1	Sends APNs (iOS, macOS, and Safari) push notifications
radclient3.jar	3.43p	Implements the RADIUS client for MFA

reflectasm-1.10.1-shaded.jar	1.10.1	Used as a Class Object creation Library
retrofit-2.9.0.jar	2.9.0	Used for DUO Universal Prompt authentication
RoaringBitmap-0.9.25.jar	0.9.25	Used for TOR IP blocking
service-proxy-core-4.5.1.jar	4.5.1	Reverses HTTP proxy dependency
simplecaptcha-1.2.1.jar	1.2.1	Enables advanced CAPTCHA with audio
slf4j-api-1.7.31.jar	1.7.31	Used as a logging dependency
slf4j-jdk14-1.7.31.jar	1.7.31	Use as a logging dependency
smslib-3.5.2.jar	3.5.2	Sends SMS notifications
snakeyaml-2.0.jar	2.0	Parses YAML files
SparseBitSet-1.2.jar	1.2	Manipulates bits
spotbugs-annotations-3.1.12.jar	3.1.12	Static analysis tool for bugs
spring-beans-5.3.39.jar	5.3.39	Used as a load balancer dependency library
spring-context-5.3.39.jar	5.3.39	Used as a load balancer dependency library
spring-core-5.3.39.jar	5.3.39	Used as a load balancer dependency library
sqljdbc4.jar	4.0	Used for database connection
struts-core-1.3.11.jar	1.3.11	Used by the Apache Struts framework
struts-extras-1.3.11.jar	1.3.11	Used by the Apache Struts framework
struts-taglib-1.3.11.jar	1.3.11	Used by the Apache Struts framework
struts-tiles-1.3.11.jar	1.3.11	Used by the Apache Struts framework
taglibs-standard-impl-1.2.5.jar	1.2.5	Used for JSP tags utility
tika-core.jar	2.4.1	Gets the MIME type of uploaded files
trayicon.jar	1.0	Required to implement the Java Wrapper tray icon
ua-parser.jar	1.5.1	Parses user agent
unboundid-ldapsdk-6.0.2.jar	6.0.2	Communicates with LDAP directory servers
webauthn4j-core-0.21.8.RELEASE.jar	0.21.8	Used for FIDO authentication
webauthn4j-util-0.21.8.RELEASE.jar	0.21.8	Used for FIDO authentication



wrapper.jar	3.5.51	Required to implement Java Wrapper
xercesImpl.jar	2.12.2-xml-schema-1.1	Parses XML
xml-apis-ext.jar	1.3	Filters CSS content
xml-apis.jar	1.4.02	Used in RT while getting DocumentBuilder object
xmlbeans-3.1.0.jar	3.1.0	Compiles XML schemas and manipulate XML documents
xmlbeautifier-1.2.2.jar	1.2.2	Manipulates XML documents
xmltooling-1.4.6.jar	1.4.6	Manipulates XML documents
xmlsec-2.3.0.jar	2.3.0	Manipulates XML documents
xz-1.9.jar	1.9	Used for data compression for Java
yubico-validation-client2-3.0.5.jar	3.0.5	Enables YubiKey authenticator for MFA
zip4j-2.11.5.jar	2.11.5	Implements ZIP file format
zxing-core-3.5.3.jar	3.5.3	Generates QR codes for MFA

JavaScript		
JavaScript file	Version	Purpose
Ember	2.18	Used as a JavaScript web framework for scalable, feature-rich single-page apps
Bootstrap	3.4.1	Used as a CSS framework
Bootstrap-colorpicker	2.5.2	Provides color selection UI
Bootstrap-select	1.11.0	Adds a frame for drop-down lists
bootstrap-toggle.js	2.2.0	Used as a CSS framework for checkboxes
cooltree	1.4.0	Provides tree structure for files and path
Data	4.2.4	Used for highcharts dependency
Daterangepicker	2.1.17	Used for datepicker dependency
Duo-Web-v2-min.js	2.0	Used as a Duo login prompt library
Highcharts	4.2.4	Adds interactive JavaScript charts for webpages

htmlarea	1.1.24.4	Used as a utility for developing HTML
icheck	1.0.2	Customizes checkboxes and radio buttons
jquery.bxslider	4.2.5	Responsive jQuery content slider
jquery.Jcrop	0.9.12	Plugin to enable image cropping
Jquery	3.5.1	Used as a JavaScript library
jquery.mCustomScrollbar	3.1.5	Adds custom scroll bar
jquery.mousewheel	3.1.13	Supports cross-browser mouse wheel
jquery.navgoco	0.2.1	Turns a nested unordered list of links into a vertical multi-level sliding navigation
jquery-ui	1.13.2	Used for UI interactions, effects, widgets, and themes built on top of the jQuery JavaScript library
jquery.ui.selectable.js	1.10.2	Makes the UI elements selectable with a mouse
jsTree	3.0.9	Provides interactive tree structure
less.min.js	2.2.0	Converts LESS files to CSS files at the client end
Moment	2.10.3	Used to parse, validate, manipulate, and display dates and time
tool-tip	1.0	Incorporates tool tips in the webpage UI
typeahead.bundle	0.10.5	Enables typeheads
typeahead.jquery	0.11.1	Enables typeheads
Calendar	1.2.2.1	Incorporates calendars
calendar-setup	1.2.2.1	Allows users to select date and time in the calendar
FileSaver	1.0	Saves files at the client end
colour	1.1.4.3	Required by colourpicker.js to incorporation color selection
colourpicker	1.1.8.3.2.1	Includes provisions to select color

## Our Products

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### ManageEngine ADSelfService Plus

ADSelfService Plus is an identity security solution to ensure secure and seamless access to enterprise resources and establish a Zero Trust environment. With capabilities such as adaptive multi-factor authentication, single sign-on, self-service password management, a password policy enhancer, remote work enablement and workforce self-service, ADSelfService Plus provides your employees with secure, simple access to the resources they need. ADSelfService Plus helps keep identity-based threats out, fast-tracks application onboarding, improves password security, reduces help desk tickets and empowers remote workforces.

For more information about ADSelfService Plus, visit [www.manageengine.com/products/self-service-password](http://www.manageengine.com/products/self-service-password).

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