

## UCS 4.1-1 Release Notes



**Release Notes für die Inbetriebnahme und Aktualisierung  
von Univention Corporate Server (UCS) 4.1-1**

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Mary-Somerville-Straße 1, 28359 Bremen, Deutschland/Germany

<feedback@univention.de>

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## Inhaltsverzeichnis

1. Release-Highlights .....	4
2. Hinweise zum Update .....	5
2.1. Empfohlene Update-Reihenfolge .....	5
2.2. UCS-Installations-DVDs nur noch als 64-Bit-Variante .....	5
3. Vorbereitung des Updates .....	6
4. Nachbereitung des Updates .....	7
5. Hinweise zum Einsatz einzelner Pakete .....	8
5.1. Erfassung von Nutzungsstatistiken .....	8
5.2. Umfang des Sicherheits-Supports von WebKit, Konqueror und QtWebKit .....	8
5.3. Empfohlene Browser für den Zugriff auf Univention Management Console .....	8
6. Changelog .....	9
6.1. General .....	9
6.2. Univention Installer .....	10
6.3. Basic system services .....	10
6.3.1. Linux kernel and firmware packages .....	10
6.3.2. Boot Loader .....	10
6.4. Domain services .....	10
6.4.1. OpenLDAP .....	10
6.4.1.1. Listener/Notifier domain replication .....	11
6.4.1.2. DNS server .....	11
6.5. Univention Management Console .....	11
6.5.1. Univention Management Console web interface .....	11
6.5.2. Univention Management Console server .....	12
6.5.3. Univention App Center .....	12
6.5.4. Univention Directory Manager UMC modules and command line interface .....	13
6.5.5. Modules for system settings / setup wizard .....	13
6.6. Software deployment .....	14
6.6.1. Software monitor .....	14
6.7. Univention base libraries .....	14
6.8. System services .....	14
6.8.1. SAML .....	14
6.8.2. Univention self service .....	15
6.8.3. Mail services .....	15
6.8.4. Printing services .....	16
6.8.5. Kerberos .....	16
6.8.6. SSL .....	16
6.8.7. Proxy services .....	16
6.8.8. Apache .....	16
6.8.9. PAM / Local group cache .....	17
6.9. Virtualization .....	17
6.9.1. Univention Virtual Machine Manager (UVMM) .....	17
6.10. Container Technologies .....	17
6.11. Services for Windows .....	17
6.11.1. Samba .....	17
6.11.2. Univention S4 Connector .....	18
6.12. Other changes .....	18

# Kapitel 1. Release-Highlights


Mit Univention Corporate Server 4.1-1 steht das erste Point-Release für Univention Corporate Server (UCS) 4.1 zur Verfügung. Es umfasst diverse Detailverbesserungen und Fehlerkorrekturen. Die wichtigsten Änderungen im Überblick:

- Der Linux Kernel wurde auf *4.1.16* aktualisiert. Dieser beinhaltet diverse Sicherheitsaktualisierungen sowie neuere und aktualisierte Treiber für eine verbesserte Hardware-Unterstützung.
- Mit dem Update auf Samba 4.3.3 wurde die Kompatibilität zu Active Directory weiter ausgebaut. Dies beinhaltet u.a. Verbesserungen in der DRS-Replikation und diverse Sicherheitsaktualisierungen.
- Univention Virtual Machine Manager kann nun auch *Virtual Private Clouds (VPC)* in Amazon AWS verwalten. Dadurch besteht die Möglichkeit virtuelle Maschinen in der EC2 Region *eu-central-1* (Frankfurt am Main) zu administrieren.
- Die Performance der Verzeichnisdienst-Replikation wurde deutlich erhöht. Dadurch ist u.a. der Domänenbeitritt in Umgebungen mit mehreren tausend Benutzern deutlich schneller.
- Es gibt zahlreiche Verbesserungen in Design und Usability des Univention App Center. So ist es nun bspw. sehr einfach möglich zwischen den unterschiedlichen Apps zu navigieren. Die Ladegeschwindigkeit des App Centers wurde ebenfalls deutlich erhöht.

## Kapitel 2. Hinweise zum Update

Während der Aktualisierung kann es zu temporären Ausfällen von Diensten innerhalb der Domäne kommen. Aus diesem Grund sollte das Update innerhalb eines Wartungsfensters erfolgen. Grundsätzlich wird empfohlen, das Update zunächst in einer Testumgebung einzuspielen und zu testen. Die Testumgebung sollte dabei identisch zur Produktivumgebung sein. Je nach Systemgeschwindigkeit, Netzwerkanbindung und installierter Software kann das Update zwischen 20 Minuten und mehreren Stunden dauern.


### 2.1. Empfohlene Update-Reihenfolge

Feedback 

In Umgebungen mit mehr als einem UCS-System muss die Update-Reihenfolge der UCS-Systeme beachtet werden:

Auf dem Domänencontroller Master wird die maßgebliche (authoritative) Version des LDAP-Verzeichnisdienstes vorgehalten, die an alle übrigen LDAP-Server der UCS-Domäne repliziert wird. Da bei Release-Updates Veränderungen an den LDAP-Schemata auftreten können, muss der Domänencontroller Master bei einem Release-Update immer als erstes System aktualisiert werden.

### 2.2. UCS-Installations-DVDs nur noch als 64-Bit-Variante

Feedback 

UCS-Installations-DVDs werden ab UCS 4 nur noch für 64-Bit-Architekturen bereitgestellt. Vorhandene 32-Bit UCS 3 Systeme können weiterhin über das Online Repository oder über Update DVDs auf UCS 4 aktualisiert werden. Die 32-Bit-Architektur wird für die gesamte UCS 4 Maintenance noch unterstützt.

## Kapitel 3. Vorbereitung des Updates

Es sollte geprüft werden, ob ausreichend Festplattenplatz verfügbar ist. Eine Standard-Installation benötigt min. 6 GB Speicherplatz. Das Update benötigt je nach Umfang der vorhandenen Installation ungefähr 2 GB weiteren Speicherplatz zum Herunterladen und Installieren der Pakete.

Für das Update sollte eine Anmeldung auf der lokalen Konsole des Systems mit dem Benutzer `root` durchgeführt und das Update dort gestartet werden. Alternativ kann das Update über Univention Management Console durchgeführt werden.

Eine Remote-Aktualisierung über SSH wird nicht empfohlen, da dies beispielsweise bei Unterbrechung der Netzverbindung zum Abbruch des Update-Vorgangs und zu einer Beeinträchtigung des Systems führen kann. Sollte dennoch eine Aktualisierung über eine Netzverbindung durchgeführt werden, ist sicherzustellen, dass das Update bei Unterbrechung der Netzverbindung trotzdem weiterläuft. Hierfür können beispielsweise die Tools `screen` oder `at` eingesetzt werden, die auf allen UCS Systemrollen installiert sind.


## Kapitel 4. Nachbereitung des Updates

Nach dem Update müssen die neuen oder aktualisierten Join-Skripte ausgeführt werden. Dies kann auf zwei Wegen erfolgen: Entweder über das UMC-Modul **Domänenbeitritt** oder durch Aufruf des Befehls `univention-run-join-scripts` als Benutzer `root`.

Anschließend muss das UCS-System neu gestartet werden.

# Kapitel 5. Hinweise zum Einsatz einzelner Pakete

## 5.1. Erfassung von Nutzungsstatistiken


Feedback 

Bei Verwendung der UCS Core Edition (die in der Regel für Evaluationen von UCS herangezogen wird) werden anonyme Nutzungsstatistiken zur Verwendung von Univention Management Console erzeugt. Die aufgerufenen Module werden dabei von einer Instanz des Web-Traffic-Analyse-Tools Piwik protokolliert. Dies ermöglicht es Univention die Entwicklung von Univention Management Console besser auf das Kundeninteresse zuzuschneiden und Usability-Verbesserungen vorzunehmen.

Diese Protokollierung erfolgt nur bei Verwendung der UCS Core Edition. Der Lizenzstatus kann überprüft werden durch den Eintrag **Lizenz** -> **Lizenzinformation** des Benutzermenüs in der rechten, oberen Ecke von Univention Management Console. Steht hier unter **Lizenztyp** der Eintrag **UCS Core Edition** wird eine solche Edition verwendet. Bei Einsatz einer regulären UCS-Lizenz erfolgt keine Teilnahme an der Nutzungsstatistik.


Die Protokollierung kann unabhängig von der verwendeten Lizenz durch Setzen der Univention Configuration Registry-Variable `umc/web/piwik` auf `false` deaktiviert werden.

## 5.2. Umfang des Sicherheits-Supports von WebKit, Konqueror und QtWebKit

Feedback 

WebKit, Konqueror und QtWebKit werden in UCS im maintained-Zweig des Repositorys mitgeliefert, aber nicht durch Sicherheits-Updates unterstützt. WebKit wird vor allem für die Darstellung von HTML-Hilfeseiten u.ä. verwendet. Als Web-Browser sollte Firefox eingesetzt werden.

## 5.3. Empfohlene Browser für den Zugriff auf Univention Management Console

Feedback 

Univention Management Console verwendet für die Darstellung der Web-Oberfläche zahlreiche JavaScript- und CSS-Funktionen. Cookies müssen im Browser zugelassen sein. Die folgenden Browser werden empfohlen:

- Chrome ab Version 37
- Firefox ab Version 38
- Internet Explorer ab Version 11
- Safari und Safari Mobile ab Version 9


Auf älteren Browsern können Darstellungs- oder Performanceprobleme auftreten.



# Kapitel 6. Changelog


Die Changelogs mit den detaillierten Änderungsinformationen werden nur in Englisch gepflegt. Aufgeführt sind die Änderungen seit UCS 4.1-0:

## 6.1. General

Feedback 


- All security updates issued for UCS 4.1-0 are included:
  - **eglibc** (CVE-2015-1472 CVE-2015-1473 CVE-2012-3406 CVE-2014-4043 CVE-2014-9402 CVE-2013-7424) (Bug 37643).
  - **mysql-5.5** (CVE-2015-4792 CVE-2015-4802 CVE-2015-4815 CVE-2015-4816 CVE-2015-4819 CVE-2015-4826 CVE-2015-4830 CVE-2015-4836 CVE-2015-4858 CVE-2015-4861 CVE-2015-4870 CVE-2015-4879 CVE-2015-4913) (Bug 40183).
  - **openjdk-7** (CVE-2015-4734 CVE-2015-4803 CVE-2015-4805 CVE-2015-4806 CVE-2015-4835 CVE-2015-4840 CVE-2015-4842 CVE-2015-4843 CVE-2015-4844 CVE-2015-4860 CVE-2015-4868 CVE-2015-4871 CVE-2015-4872 CVE-2015-4881 CVE-2015-4882 CVE-2015-4883 CVE-2015-4893 CVE-2015-4903 CVE-2015-4911) (Bug 40043).
  - **ldb** (CVE-2015-3223 CVE-2015-5330) (Bug 40221).
  - **Firefox** (CVE-2015-7181 CVE-2015-7182 CVE-2015-7183 CVE-2015-7197 CVE-2015-7198 CVE-2015-7199 CVE-2015-7200 CVE-2015-7196 CVE-2015-7194 CVE-2015-7193 CVE-2015-7189 CVE-2015-7188 CVE-2015-4513 CVE-2015-7214 CVE-2015-7222 CVE-2015-7213 CVE-2015-7205 CVE-2015-7212 CVE-2015-7210 CVE-2015-7201 CVE-2015-7575 CVE-2016-1935 CVE-2016-1930) (Bug 40025, (Bug 40272).
  - **gnutls26** (CVE-2015-7575 CVE-2015-8313) (Bug 40412).
  - **openssh** (CVE-2016-0777 CVE-2016-0778) (Bug 40438).
  - **ntp** (CVE-2014-9750 CVE-2014-9751 CVE-2015-3405 CVE-2015-5146 CVE-2015-5194 CVE-2015-5195 CVE-2015-5219 CVE-2015-5300 CVE-2015-7691 CVE-2015-7692 CVE-2015-7701 CVE-2015-7702 CVE-2015-7703 CVE-2015-7704 CVE-2015-7705 CVE-2015-7850 CVE-2015-7851 CVE-2015-7852 CVE-2015-7855 CVE-2015-7871) (Bug 40024).
  - **rpcbind** (CVE-2015-7236) (Bug 40023).
  - **libxml2** (CVE-2015-1819 CVE-2015-7941 CVE-2015-7942 CVE-2015-8035 CVE-2015-5312 CVE-2015-7497 CVE-2015-7498 CVE-2015-7499 CVE-2015-7500 CVE-2015-8241 CVE-2015-8317) (Bug 40368).
  - **samba** (CVE-2015-2535 CVE-2015-3223 CVE-2015-5252 CVE-2015-5296 CVE-2015-5299 CVE-2015-5330) (Bug 40221).
  - **grub2** (CVE-2015-8370) (Bug 40280).
- The package **univention-sudo** has been added. It provides default rules for `sudo`. If installed and the Univention Configuration Registry variable `auth/sudo` is turned on, users in the group *Domain Admins* are allowed to run arbitrary commands with root privileges (Bug 37995).

## 6.2. Univention Installer


Feedback 

- *hw-detect* has been updated to add support for missing firmware for newer Linux kernels (Bug 40630).
- The UUID generation has been moved to the setup process (Bug 40640).
- A pop up which asks for a page reload is no longer shown at the end of an installation (Bug 39974, Bug 39156).
- Small text and translation adjustments have been done (Bug 40140, Bug 40053).
- The join scripts are now executed in a working `chroot` environment to allow the installation of a DC Master using the profile based installation (Bug 40559).
- The repository path and versions in the template file for profile based installations were updated for UCS-4.1 (Bug 39937).
- The name of the menu entry for booting from the local hard disk was changed to local to prevent a name collision (Bug 38821).
- The package description has been extended to simplify finding the package when searching for *Preboot Execution Environment (PXE)* (Bug 33361).
- The daemon used to wait for successful installations has been changed to listen on all network interfaces by default (Bug 34061).
- The installer automatically selected the first interface for the installation. If multiple network interfaces are used, an interface selection dialog is now shown (Bug 38032).

## 6.3. Basic system services


Feedback 

### 6.3.1. Linux kernel and firmware packages

Feedback 


- The Linux kernel has been updated to *4.1.16*. It provides many bugfixes and fixes several vulnerabilities (Bug 40481, Bug 40059, Bug 40558).

### 6.3.2. Boot Loader


Feedback 

- Two new Univention Configuration Registry variables `grub/default` and `grub/savedefault` have been added. These variables allow the selection of the next kernel to boot (Bug 26763).
- The UEFI boot hangs on some hardware in the boot loader. This issue has been fixed (Bug #39009).

## 6.4. Domain services

Feedback 


### 6.4.1. OpenLDAP

Feedback 

- When a domain controller (DC) master or DC backup is created, two policies are now created or modified: a LDAP server policy to be used by member servers and a UCR policy to be used by DC slaves. The policies configure them to use the LDAP servers of all available DC backups, in case the DC master is down. The LDAP server policy is activated on members, the UCR policy for slaves is not activated by default (Bug 38091).
- The attribute *printerModel* has been added to LDAP sub-string search index (Bug 39884).


- The script `/usr/share/univention-ldap/ldap_setup_index` has been extracted. It can be used to manage the attributes, which are indexed by the LDAP server (Bug 39866).
- Some shell quoting errors have been fixed (Bug 40031).
- Only initialize the LDAP server on the DC Master and abort on errors (Bug 38051).
- The attribute `univentionMessageCatalog` has been added to the LDAP schema for the `univentionUDMHook` and `univentionUDMSyntax` object classes (Bug 35840).

#### 6.4.1.1. Listener/Notifier domain replication

Feedback 


- The listener cache flushing has been disabled during module initialization (Bug 39957).
- Some replicated objects were not deleted when the LDAP server closed its side of the LDAP connection. This issue has been fixed (Bug 40067).
- The Samba 4 Connector is now stopped during re-joins (Bug 40391).
- Translation format strings with multiple unnamed arguments have been adjusted (Bug 40339)
- If the connection to the LDAP server is closed, it is now automatically re-connected. This fixes joining in large environments, when the LDAP server is restarted while a new system is joined. The number of retries can be configured through the new Univention Configuration Registry variable `listener/ldap/retries` (Bug 40460).

#### 6.4.1.2. DNS server


Feedback 

- The Univention Configuration Registry variables `dns/nameserver/registration/forward_zone` and `dns/nameserver/registration/reverse_zone` have been added. These variables allow to disable the automatic registration as additional nameserver (Bug 40139).
- Some shell quoting errors have been fixed (Bug 40031).

## 6.5. Univention Management Console

Feedback 


### 6.5.1. Univention Management Console web interface

Feedback 

- The username field in the login dialog doesn't get cleared anymore (Bug 39898).
- The help text field in the login dialog shows a hint about the root user when `username=root` is given as a query parameter (Bug 40144).
- The alignment of the single sign on button has been adjusted (Bug 40146).
- Display problems in the grid header when using Internet Explorer have been fixed (Bug 39498).
- A crash is prevented if a notifier timer removes a socket while there are pending IO events from this socket. Univention Management Console was affected by this bug and it resulted in faulty behavior of UMC modules (Bug 40510).
- Missing translation files won't cause a HTTP 404 Not Found error anymore (Bug 40242).
- Translation format strings with multiple unnamed arguments have been adjusted (Bug 40339).
- Internet Explorer 11 doesn't show a download pop up anymore when accessing UMC (Bug 39861).


- The versions of outdated browsers have been updated (Bug 40402).
- Some minor usability adjustments for the login dialog have been implemented (Bug 40402).

## 6.5.2. Univention Management Console server

Feedback 

- The `dh_umc debhelper` doesn't create duplicated message entries or false warnings about fuzzy PO file headers anymore (Bug 40341).
- Translation format strings with multiple unnamed arguments have been adjusted (Bug 40339).
- The file permissions of files installed by the `dh_umc debhelper` have been adjusted (Bug 30520).
- The categories of UMC modules can now be configured more easily. It is also possible to add links to the UMC module overview (Bug 40528).


## 6.5.3. Univention App Center

Feedback 

- On touch devices the description of an app is now visible by touching the app once. Touching a second time will open the detail page (Bug 39663).
- Installed apps are now correctly stored in `repository/app_center/installed` even when bypassing the App Center (Bug 40087).
- The check whether docker is up and running at the startup of the App Center can now be disabled by setting the Univention Configuration Registry variable `appcenter/docker` to `=disabled`. In this case, Docker Apps cannot be installed anymore (Bug 40074).
- The command `univention-app shell` has been added. It runs a command within the environment of a Docker App (Bug 40119).
- Warnings shown before App installations do not show up as errors after a successful installation anymore (Bug 39926).
- Failed Docker App installations now correctly remove their Docker containers when cleaning up (Bug 40135).
- Downloading specific files from the App Center server now makes use of *ETags*, resulting in a speedup of module opening (Bug 40136).
- The layout of the App Center gallery has been improved (Bug 39662).
- On an app details page, it is now possible to navigate to the previous and next app in the search results (Bug 39664).
- The app details page for small domains has been simplified (Bug 40116).
- Apps now support *RequiredAppsInDomain* which can be used to state that a specific App has to be installed somewhere in the domain in order for the current App to work (Bug 37539).
- Various performance optimizations have been done in the App Center code (Bug 40239, Bug 40240).
- The developer scripts for using a local App Center have been fixed (Bug 40359).
- One function of the Docker Apps join script helpers has been fixed when called from within the UMC module (Bug 40264).
- Uninstalling the last app doesn't cause a Forbidden pop up anymore (Bug 39157).


- Calling `univention-app` does not log the complete set of options, instead just the name of the action being called (Bug 40287).
- The command `univention-app upgrade` now correctly upgrades all packages for non Docker Apps (Bug 40060).
- The attribute `univentionAppID` has been added to the LDAP equality search index (Bug 39866).
- Translation format strings with multiple unnamed arguments have been adjusted (Bug 40339).
- The function `joinscript_run_in_container` from the Docker Apps join script helper functions now correctly passes its arguments to `univention-app shell` (Bug 40523).
- The support for plain Docker images has been enhanced (Bug 40604).
- The attribute `Screenshot` has been replaced by `Thumbnails` (Bug 40160).
- Support for upgrading conventional Apps to Docker Apps has been added (Bug 40561).
- The error handling has been improved. This results in useful error messages especially when a connection to the LDAP service failed (Bug 40069).

## 6.5.4. Univention Directory Manager UMC modules and command line interface

Feedback 

- The locale is not replaced by the Country syntax class anymore. This caused side effects in all processes which imported the UDM python modules. For example the translation of the App Center UMC modules was not possible (Bug 39146).
- From now on domain names for mail domains will be lowercased when created or modified. Existing domain names will not be changed automatically, only when they are modified. Mixed case domain names caused inconsistent behavior with Dovecot and shared folders (Bug 39721).
- The syntax check for the `Base64GzipText` attribute type had an error that made it impossible to store data in such an attribute. This issue has been fixed (Bug 40348).
- The `simple` syntax class now allows None values to be able to e.g. remove the birthday of a user (Bug 32321).
- Some shell quoting errors have been fixed (Bug 40031).
- Translation format strings with multiple unnamed arguments have been adjusted (Bug 40339).
- It is now possible to ship translations for UDM hooks and UDM syntax settings (Bug 34556).
- The modification list is now generated independent of the ordering of attribute values. This prevents errors when modifying objects in case the permissions of the executor aren't sufficient (Bug 40120).

## 6.5.5. Modules for system settings / setup wizard

Feedback 

- The package `univention-system-activation` has been rebuild with all intended changes for UCS 4.1. This fixes a bug with system setup not being able to finish correctly (Bug 40019).
- The term Univention App has been replaced by Appliance (Bug 40304).
- More input validation for certificate values has been added (Bug 39376).
- The country name field in the ldap DN is now validated (Bug 39941).

- The email address field provides a virtual keyboard for special characters (Bug 38567).
- Some shell quoting errors have been fixed (Bug 40031).
- The term Univention App has been replaced by Appliance (Bug 40304).
- Translation format strings with multiple unnamed arguments have been adjusted (Bug 40339).
- Fixed typos in German translation have been fixed (Bug 39886, Bug 40344).

## 6.6. Software deployment

Feedback 


- The free disc space requirement in the updater's preup script has been increased to 1.5GiB (Bug 39991).
- The AWS EC2 image Univention Corporate Server (UCS) 4.1 (official image) rev. 0 uses the repository server `updates-test.software-univention.de` instead of `updates.software-univention.de`. This update resets the Univention Configuration Registry variable `repository/online/server` on EC2 images to `updates.software-univention.de` (Bug 40142).
- The layout in the UMC software update module has been adjusted to be responsive (Bug 36444).
- UCS-3.0 errata updates are no longer mirrored with newer systems (Bug 29633).
- The inheritance of using https for components has been fixed (Bug 40148).
- If no update process is currently running, the UMC module won't block closing UMC anymore (Bug 39780).
- The update process via the UMC module can be started if the logfiles don't exist (Bug 40051).
- The HTTP timeout has been reduced to 30 seconds (Bug 39954).
- Some shell quoting errors have been fixed (Bug 40031).
- A vulnerability has been fixed which could lead to code execution (Bug 39993).
- A progress bar is now shown while rebooting the system (Bug 40343).
- The update scripts have been adjusted to UCS 4.1-1 (Bug 40624).

### 6.6.1. Software monitor

Feedback 

- The package database was not updated automatically on systems other than the database server. This issue has been fixed (Bug 33935).

## 6.7. Univention base libraries

Feedback 

- Some shell quoting errors have been fixed (Bug 40031).
- `Atjob` comments are now properly encoded (Bug 39993).
- It is now possible to ship translations for UDM hooks and UDM syntax settings (Bug 34556).

## 6.8. System services

Feedback 


### 6.8.1. SAML

Feedback 

- The SAML logout process is now more robust (Bug 39815).


- It is now possible to import a license file when being logged in via single sign on (Bug 39675).

## 6.8.2. Univention self service

Feedback 

- The sender address of token emails is now changeable with the Univention Configuration Registry variable `umc/self-service/passwordreset/email/sender_address` (Bug 40048).
- It is now possible to use the password reset service with the primary email address instead of the username (Bug 40049).
- The server name used in token emails is now configurable via the Univention Configuration Registry variable `umc/self-service/passwordreset/email/webserver_address` (Bug 40107).
- Tokens aren't written to log files regardless of the configured debug level (Bug 39996).
- The unjoin scripts are executed when removing the package (Bug 39980).
- The links on the *ucs-overview* are removed when uninstalling (Bug 40033).
- Redirections are now restricted to relative paths only (Bug 39981).
- Protect against denial of service attacks. The Univention Configuration Registry variable `umc/self-service/passwordreset/limit/.*` may be used to configure request limits (Bug 39720).
- It's not possible to gain information about existence of users anymore (Bug 39939).
- The `postrm` script has been modified to correctly restart `apache2` (Bug 40061).
- When a password policy checking password quality was activated, the password reset module would crash on a bad password. This issue has been fixed (Bug 40433).
- The error handling during connecting to the UMC server has been improved (Bug 40581).
- If the self-service app was installed during the initial system configuration, the service could not connect to the UMC server (Bug 40582).

## 6.8.3. Mail services

Feedback 


- An error in the Dovecot listener could lead to the unintended deletion of a shared folder if the corresponding LDAP objects is changed. This issue has been fixed (Bug 40014).
- The UMC permissions *write* and *all* for shared folders did not contain the IMAP permission for expunge. A removal of mails or moving mails was not possible. This problem has been fixed and the permission will be updated automatically if the join script of *univention-mail-dovecot* is called (Bug 40038).
- A premature scheduling of the DH parameter generation caused an *atd* process to hang in Docker containers. This issue has been fixed (Bug 40134).
- A bug in the mailing list filter policy server allowed senders with an empty envelope email address to send to restricted mailing lists. This issue has been fixed (Bug 40353).
- The timeout for the initial LDAP search during domain join was increased to two hours, as joining in a large domain can take much longer than the default five minutes. The time can be changed through the Univention Configuration Registry variable `listener/timeout/scans` (Bug 40373).
- A file for the process of handling user renames has been moved to a secure location (Bug 40245).



## Printing services


- A problem regarding IMAP ACLs at shared folders with primary mail address has been fixed. ACLs that have been removed via Univention Management Console or CLI have not been removed on the IMAP server (Bug 40194).
- A file for the process of handling user renames has been moved to a secure location (Bug 40246).
- Errors when checking restrictions of mailing lists and mail groups are now written to the system mail log (Bug 40376).
- The user that wants to send to a restricted mailing list or group mail is now determined using the SASL login. This requires, that the sender logs into the server to deliver the email. To enable the previous behavior (to use the email address declared by the sender), set the Univention Configuration Registry variable `mail/postfix/policy/listfilter/use_sasl_username` to `no` (Bug 29615).
- The policy server checking restrictions of mailing lists now exits without error, when told to by Postfix (Bug 40569).

### 6.8.4. Printing services

Feedback 


- The default CUPS policy has been fixed and is now configurable via the Univention Configuration Registry variables `cups/policy/. *` (Bug 38023).
- The *univention-printserver* join script now restarts the cups daemon (Bug 40591).

### 6.8.5. Kerberos

Feedback 


- Some shell quoting errors have been fixed (Bug 40031).

### 6.8.6. SSL

Feedback 


- Certificate variables are now correctly escaped when writing to configuration file before creating new certificates (Bug 39376).

### 6.8.7. Proxy services

Feedback 

- This update adds the possibility to define the number of squid's rewrite helper processes via the new Univention Configuration Registry variable `squid/rewrite/children` (Bug 40095).
- When *basic auth* is enabled, disabled user accounts cannot use the proxy anymore (Bug 39901).
- Added new configuration option *dbtemp* to squidGuard that specifies a directory for temporary backing files of the in-memory databases (Bug 40592).


### 6.8.8. Apache

Feedback 

- The init script now stops the apache process before restarting if a reload crashes the apache process (Bug 40061).
- A warning about unencrypted HTTP connections has been added to the UCS overview page (Bug 39361).
- The HTTP redirection has been changed to a permanent redirection when forcing HTTPS access (Bug 40121).
- HTTPS is not enforced for the apache *mod\_status* resources (Bug 40173).
- Links on the UCS overview preserve the port if accessed through a non default port (Bug 40070).




## 6.8.9. PAM / Local group cache


Feedback 

- A German word list has been added, so that passwords can be checked to not include German words (Bug 24840).
- A dependency on the package *univention-sudo* has been added. The `sudo` rules are not automatically activated on updating systems, only on new installations (Bug 37995).
- Create the user *messagebus* as the owner for `/etc/libnss-ldap.conf`. Thanks to *Lutz Willek* (Bug 38993).

## 6.9. Virtualization


Feedback 

### 6.9.1. Univention Virtual Machine Manager (UVMM)

Feedback 


- VMs not specifying the disk driver type don't crash anymore (Bug 39825).
- The migration of paused VMs is now allowed (Bug 39242).
- The VNC button tool-tip has been fixed (Bug 33982).
- The AWS API for EC2 region *eu-central-1* (Frankfurt am Main) is now supported (Bug 36141).
- Support for *Virtual Private Clouds (VPC)* with AWS EC2 has been added (Bug 36289).
- The deprecated support for TLS/SSL connections and authentication through PAM has been removed (Bug 40180).
- The deprecated code for booting old VMs through PXE has been removed (Bug 40181).
- The command line tool for debugging UVMM has been improved (Bug 40182).
- Some unused helper code has been removed to fix an import error of the Python `libvirt` module from the UVMM Univention Directory Listener module handling the dynamic addition and removal of virtualization hosts (Bug 40133).
- The cron job to check `libvirtd` is no longer required and has been removed (Bug 35101).

## 6.10. Container Technologies


Feedback 

- The Docker engine now uses a HTTP proxy for downloading of images, if the Univention Configuration Registry variable `proxy/http` is configured (Bug 40030).

## 6.11. Services for Windows

Feedback 


### 6.11.1. Samba

Feedback 

- Samba has been updated to 4.3.3. This includes an update of the packages *talloc*, *tdb*, *tevent*, *ldb*, *univention-ldb-modules* (Bug 40221).
- In certain situations samba restart left samba in a non-functional state (Bug 40132).
- When closing sessions the `smbd` server processes exited with a memory corruption error (Bug 40131).


- The Univention Configuration Registry variable `samba/register/exclude/interfaces` has been added to configure samba to ignore certain network interfaces. The interface `docker0` is ignored by default (Bug 39601).
- The `sysvol-sync` script now checks if any changes need to be synchronized at all and it uses file locking to coordinate concurrent read and write processes (Bug 40186).
- The ACL check in the `sysvol-sync` script is now limited to the Policies directory (Bug 40266).
- There are two new Univention Configuration Registry variables `samba4/sysvol/sync/from_upstream` and `samba4/sysvol/sync/from_downstream` which can be used to deactivate copying files from other DCs (Bug 40313).
- This update fixes an issue where `libunivention-ldb-modules` would refuse to load due to an updated `ldb library` (Bug 40437).
- Translation format strings with multiple unnamed arguments have been adjusted (Bug 40339).
- On UCS@school Samba AD DC Slaves the `univention-samba4` joinscript could take a long time to wait in vain for an object to get synchronized to the DC Master (Bug 33399).
- Some shell quoting errors have been fixed (Bug 40031).
- Re-join during UCS@school Samba AD DC Slave setup could fail due to `krb5.keytab` containing differing Kerberos key hashes for the same key version number. This issue has been fixed (Bug 40434).

### 6.11.2. Univention S4 Connector

 Feedback 

- The new package `univention-nagios-s4-connector` provides a Nagios plugin to check the state of the `univention-s4-connector` (Bug 37006).
- The synchronization failed if a removed user was recreated at a different position. This issue has been fixed (Bug 40233).
- `msPrint-ConnectionPolicy` objects are now synced if the Univention Configuration Registry variable `connector/s4/mapping/msprintconnectionpolicy` is set to true. The S4 connector has to be restarted after changing this Univention Configuration variable. This is required for UCS@school and will be set there accordingly (Bug 40298).
- Wildcard DNS records didn't get synchronized any more. This issue has been fixed (Bug 40380).
- UCS 4.1-0 Erratum 39 accidentally set `connector/s4/listener/disabled` to true on UCS Samba/AD DCs which run an S4 Connector in an UCS domain where multiple S4 Connector services are registered in LDAP. This may affect a DC Master in an UCS@school environment. This doesn't affect UCS Samba/AD DCs where the Univention Configuration Registry variable `connector/s4/allow/secondary` is set to true, which comprises UCS@school Samba AD DC Slave systems (Bug 40467).

### 6.12. Other changes

 Feedback 

- The C library can deadlock in a call to `getaddrinfo()`, when the Linux kernel returns an empty answer for the used `NETLINK` call (Bug 40059).
- The package `pylibmc` has been added to the maintained package repository of UCS (Bug 40209).
- This update fixes a crash of the UCS policy conformance checker `ucslint` for the case, when issues don't include a file name or reference a not existing file (Bug 36456).

- This update adds an updated SSL implementation for Python, which is required to support the new AWS API for EC2 region *eu-central-1* (Frankfurt am Main) (Bug 36141).
- The program *wget* loads the SSL certificates multiple times, which makes it slow and consumes a lot of memory, which can lead to it being killed by the Linux kernel. This issue has been fixed (Bug 39940).
- The backend of *univention-welcome-screen* has been changed from Firefox to Plymouth (Bug 39241).
- The package *xml-security-c* was re-built to satisfy the dependency of *open-vm-tools* (Bug 40244).
- The robustness of the `univention-ucs-translation-build-package.py` has been enhanced (Bug 40340).
- No fuzzy PO file header entries are created anymore in *univention-ucs-translation-template* (Bug 40341).
- The package *sysstat* has been added to the maintained package repository of UCS (Bug 40203).
- The *univention-welcome-screen* now uses *vt7* (Bug 40631).