

UCS 4.4 Release Notes



**Release Notes für die Inbetriebnahme und Aktualisierung
von Univention Corporate Server (UCS) 4.4-6**

Alle Rechte vorbehalten. / All rights reserved.

(c) 2002-2020 Univention GmbH

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

<feedback@univention.de>

Jede aufgeführte Marke und jedes Warenzeichen steht im Eigentum ihrer jeweiligen eingetragenen Rechtsinhaber. Linux ist ein eingetragenes Warenzeichen von Linus Torvalds.

The mentioned brand names and registered trademarks are owned by the respective legal owners in each case. Linux is a registered trademark of Linus Torvalds.

Inhaltsverzeichnis

1. Release-Highlights	5
2. Hinweise zum Update	6
2.1. Empfohlene Update-Reihenfolge	6
2.2. UCS-Installations-DVDs nur noch als 64-Bit-Variante	6
3. Vorbereitung des Updates	7
4. Nachbereitung des Updates	8
5. Hinweise zum Einsatz einzelner Pakete	9
5.1. Erfassung von Nutzungsstatistiken	9
5.2. Umfang des Sicherheits-Supports von WebKit, Konqueror und QtWebKit	9
5.3. Empfohlene Browser für den Zugriff auf Univention Management Console	9
6. Changelog	10
6.1. General	10
6.2. Basic system services	14
6.2.1. Univention Configuration Registry	14
6.2.1.1. Changes to templates and modules	14
6.2.2. Univention Python	14
6.3. Domain services	14
6.3.1. OpenLDAP	14
6.3.1.1. Listener/Notifier domain replication	14
6.3.2. DNS server	15
6.4. Univention Management Console	15
6.4.1. Univention Management Console web interface	15
6.4.2. Univention Portal	16
6.4.3. Univention Management Console server	16
6.4.4. Univention App Center	17
6.4.5. Univention Directory Manager UMC modules and command line interface	17
6.4.6. Modules for system settings / setup wizard	18
6.4.7. Domain join module	18
6.4.8. Univention Directory Reports	18
6.4.9. License module	18
6.4.10. System diagnostic module	18
6.4.11. Process overview module	19
6.4.12. Filesystem quota module	19
6.4.13. Other modules	19
6.4.14. Development of modules for Univention Management Console	19
6.5. Univention base libraries	19
6.6. Software deployment	19
6.6.1. Software monitor	19
6.7. System services	19
6.7.1. PostgreSQL	19
6.7.2. MySQL and MariaDB	20
6.7.3. Docker	20
6.7.4. SAML	20
6.7.5. Univention self service	20
6.7.6. Mail services	21
6.7.7. Dovecot	21
6.7.8. Postfix	21
6.7.9. Spam/virus detection and countermeasures	21
6.7.10. Printing services	21
6.7.11. Nagios	21
6.7.12. Apache	22
6.7.13. RADIUS	22

6.7.14. Proxy services	22
6.7.15. Kerberos	22
6.7.16. SSL	22
6.7.17. DHCP server	22
6.7.18. PAM / Local group cache	22
6.7.19. NFS	22
6.7.20. Other services	22
6.8. Desktop	22
6.9. Virtualization	22
6.9.1. UCS Virtual Machine Manager (UVMM)	22
6.9.2. Operate UCS as virtual machine	23
6.10. Services for Windows	23
6.10.1. Samba	23
6.10.2. Univention S4 Connector	23
6.10.3. Univention Active Directory Connection	23
6.11. Other changes	24

Kapitel 1. Release-Highlights


Mit Univention Corporate Server 4.4-6 steht das sechste Point-Release für Univention Corporate Server (UCS) 4.4 zur Verfügung. Es umfasst Funktionserweiterungen und Verbesserungen, neue Eigenschaften sowie diverse Detailverbesserungen und Fehlerkorrekturen. Die wichtigsten Änderungen im Überblick:

- Verbesserungen in der Benutzerselbstverwaltung über die Self-Service App. Dem Nutzer werden in der Self-Service App, z.B. beim Zurücksetzen des Passworts, vordefinierte Texte angezeigt. Administratoren können die Inhalte dieser Texte nun anpassen. Neu registrierte Nutzer werden aktiviert, sobald die E-Mailadresse des Nutzers erfolgreich verifiziert worden ist. Das Verhalten ist standardmäßig deaktiviert. Mit der Option ist es möglich, ein UCS mit Self-Service Modul zu betreiben, an dem sich Nutzer selbst registrieren und ihr Benutzerkonto nach erfolgreicher Validierung der E-Mailadresse zu verwenden.
- App Center: Eigene Hook `Scripte` für Administratoren. UCS Systemadministratoren können jetzt auf einem UCS System eigene `Scripte` bei Apps hinterlegen, die vom App Center für eine nach Installation, Update oder Deinstallation ausgeführt werden. Damit können z.B. wiederkehrende manuelle Schritte nach einem App Update automatisiert werden, bei denen eine App z.B. an individuelle Gegebenheiten angepasst wird. Beispiel: Das Nachinstallieren von Schriften in die installierte Office App oder das Kopieren eines eigenen SSL Zertifikats in eine App.
- UCS Portal: Warnung vor veralteten und nicht mehr unterstützten Browsern. Einem Nutzer wird eine Warnung beim Login am UCS Managementsystem angezeigt, falls ein nicht unterstützter Browser, wie z.B. Internet Explorer 11, verwendet wird. Die Warnung kann auch für das Portal aktiviert werden.
- Verbesserungen in der Produktstabilität. Speicherleck in UMC Server behoben. Das führte u.a. dazu, dass der Nutzer Self-Service in größeren Umgebungen beim Ändern des eigenen Passworts nicht mehr funktionierte bis der UMC Server neu gestartet wurde. Beobachtete Absturzverhalten des LDAP Servers im Zusammenhang mit dem `ppolicy Overlay` Modul wurden behoben. Die UDM REST API kann jetzt mit Umlauten in in der URL eines API Aufrufs umgehen. Abgelaufene Benutzerpasswörter können nun im Single Sign On Anmeldefenster direkt neu gesetzt werden.
- Diverse Security Updates wurden in UCS 4.4-6 integriert, bspw. für QEMU, bind9, den Linux Kernel und PHP. Eine vollständige Liste von Security- und Paketupdates ist in Kapitel 6 zu finden.

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. 10 GB Speicherplatz. Das Update benötigt je nach Umfang der vorhandenen Installation ungefähr 4 GB zusätzlichen 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.

Univention bietet ein Skript an, mit dem Probleme, die das Update des UCS Systems verhindern würden, schon vor dem Update erkannt werden können. Dieses Skript kann vor dem Update manuell auf das System geladen und ausgeführt werden:

```
# download
curl -Oos https://updates.software-univention.de/download/univention-
update-checks/pre-update-checks-4.4{,.gpg}

# run script
gpgv --keyring /usr/share/keyrings/univention-archive-key-ucs-4x.gpg \
pre-update-checks-4.4.gpg \
pre-update-checks-4.4 && bash pre-update-checks-4.4

...

Starting pre-update checks ...

Checking app_appliance ... OK
Checking block_update_of_NT_DC ... OK
Checking cyrus_integration ... OK
Checking disk_space ... OK
Checking hold_packages ... OK
Checking ldap_connection ... OK
Checking ldap_schema ... OK
...
```


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 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 71
- Firefox ab Version 60
- Safari und Safari Mobile ab Version 12
- Microsoft Edge ab Version 18


Der Internet Explorer wird ab diesem Release nicht mehr von Univention Management Console unterstützt.

Mit 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 4.4-5:

6.1. General

Feedback 

- Internal change: the UCR templates of *univention-admin-diary* are now python3 compatible (Bug 51134).
- Internal change: the UCR templates of *univention-server* are now python3 compatible (Bug 51011).
- Internal change: the UCR templates of *univention-network-manager* are now python3 compatible (Bug 51021).
- All security updates issued for UCS 4.4-5 are included:
 - *apt* (CVE-2020-3810) (Bug 51305)
 - *bacula* (CVE-2020-11061) (Bug 51927)
 - *bind9* (CVE-2020-8616 CVE-2020-8617 CVE-2020-8622 CVE-2020-8623) (Bug 51347 Bug 51926)
 - *bluez* (CVE-2020-0556) (Bug 51037)
 - *clamav* (CVE-2020-3123 CVE-2020-3327 CVE-2020-3341 CVE-2020-3350 CVE-2020-3481) (Bug 51695 Bug 51793)
 - *cups* (CVE-2019-8842 CVE-2020-3898) (Bug 51697)
 - *curl* (CVE-2020-8177) (Bug 51743)
 - *dbus* (Bug 51713)
 - *dovecot* (CVE-2020-12100 CVE-2020-12673 CVE-2020-12674) (Bug 51824)
 - *e2fsprogs* (CVE-2019-5188) (Bug 51734)
 - *erlang* (CVE-2020-12872) (Bug 51708)
 - *evolution-data-server* (CVE-2020-14928 CVE-2020-16117) (Bug 51712 Bug 51759)
 - *exim4* (CVE-2020-12783) (Bug 51304)
 - *exiv2* (CVE-2018-16336) (Bug 51705)
 - *ffmpeg* (Bug 51744)
 - *firefox-esr* (CVE-2020-6463 CVE-2020-6514 CVE-2020-6819 CVE-2020-6820 CVE-2020-6821 CVE-2020-6822 CVE-2020-6825 CVE-2020-6831 CVE-2020-12387 CVE-2020-12392 CVE-2020-12395 CVE-2020-12399 CVE-2020-12405 CVE-2020-12406 CVE-2020-12410 CVE-2020-12417 CVE-2020-12418 CVE-2020-12419 CVE-2020-12420 CVE-2020-12421 CVE-2020-15652 CVE-2020-15659 CVE-2020-15664 CVE-2020-15669) (Bug 51083 Bug 51265 Bug 51453 Bug 51615 Bug 51827 Bug 51924)
 - *freerdp* (CVE-2014-0791 CVE-2020-11042 CVE-2020-11045 CVE-2020-11046 CVE-2020-11048 CVE-2020-11058 CVE-2020-11521 CVE-2020-11522 CVE-2020-11523 CVE-2020-11525 CVE-2020-11526 CVE-2020-13396 CVE-2020-13397 CVE-2020-13398) (Bug 51928)

- *ghostscript* (Bug 51897)
- *git* (CVE-2020-5260 CVE-2020-11008) (Bug 51117 Bug 51170)
- *glib-networking* (CVE-2020-13645) (Bug 51704)
- *gnutls28* (CVE-2019-3829) (Bug 51709)
- *icu* (CVE-2020-10531) (Bug 51038)
- *imagemagick* (CVE-2017-12140 CVE-2017-12429 CVE-2017-12430 CVE-2017-12435
 CVE-2017-12563 CVE-2017-12643 CVE-2017-12674 CVE-2017-12691 CVE-2017-12692
 CVE-2017-12693 CVE-2017-12805 CVE-2017-12806 CVE-2017-12875 CVE-2017-13061
 CVE-2017-13133 CVE-2017-13658 CVE-2017-13768 CVE-2017-14060 CVE-2017-14172
 CVE-2017-14173 CVE-2017-14174 CVE-2017-14175 CVE-2017-14249 CVE-2017-14341
 CVE-2017-14400 CVE-2017-14505 CVE-2017-14532 CVE-2017-14624 CVE-2017-14625
 CVE-2017-14626 CVE-2017-14739 CVE-2017-14741 CVE-2017-15015 CVE-2017-15017
 CVE-2017-15281 CVE-2017-17681 CVE-2017-17682 CVE-2017-17914 CVE-2017-18209
 CVE-2017-18211 CVE-2017-18252 CVE-2017-18271 CVE-2017-18273 CVE-2017-1000445
 CVE-2017-1000476 CVE-2018-7443 CVE-2018-8804 CVE-2018-8960 CVE-2018-9133
 CVE-2018-10177 CVE-2018-14551 CVE-2018-16643 CVE-2018-16749 CVE-2018-18024
 CVE-2018-18025 CVE-2018-20467 CVE-2019-10131 CVE-2019-11470 CVE-2019-11472
 CVE-2019-11597 CVE-2019-11598 CVE-2019-12974 CVE-2019-12977 CVE-2019-12978
 CVE-2019-12979 CVE-2019-13135 CVE-2019-13295 CVE-2019-13297 CVE-2019-13300
 CVE-2019-13304 CVE-2019-13306 CVE-2019-13307 CVE-2019-13308 CVE-2019-13391
 CVE-2019-13454 CVE-2019-14981 CVE-2019-15139 CVE-2019-15140 CVE-2019-19948
 CVE-2019-19949) (Bug 51616 Bug 51898 Bug 52003)
- *intel-microcode* (CVE-2020-0543 CVE-2020-0548 CVE-2020-0549) (Bug 51491 Bug 51733)
- *json-c* (CVE-2020-12762) (Bug 51755)
- *kdepim-runtime* (CVE-2020-15954) (Bug 51758)
- *ldb* (CVE-2020-10700) (Bug 51121)
- *libexif* (CVE-2016-6328 CVE-2017-7544 CVE-2018-20030 CVE-2020-0093 CVE-2020-0182
 CVE-2020-0198 CVE-2020-12767 CVE-2020-13112 CVE-2020-13113 CVE-2020-13114) (Bug
 51714)
- *libjpeg-turbo* (CVE-2018-1152 CVE-2018-14498 CVE-2020-13790 CVE-2020-14152) (Bug 51762)
- *libopenmpt* (CVE-2019-17113) (Bug 51761)
- *libpam-krb5* (CVE-2020-10595) (Bug 51051)
- *libphp-phpmailer* (CVE-2020-13625) (Bug 51760)
- *libproxy* (CVE-2020-25219) (Bug 52002)
- *librsvg* (CVE-2017-11464 CVE-2019-20446) (Bug 51723)
- *libssh* (CVE-2020-16135) (Bug 51756)

- **libnscserver** (CVE-2019-15690 CVE-2019-20788 CVE-2019-20839 CVE-2020-14397 CVE-2020-14399 CVE-2020-14400 CVE-2020-14401 CVE-2020-14402 CVE-2020-14403 CVE-2020-14404 CVE-2020-14405) (Bug 51703 Bug 51925)
- **libx11** (CVE-2020-14344 CVE-2020-14363) (Bug 51796 Bug 51948)
- **libxml2** (CVE-2017-8872 CVE-2017-18258 CVE-2018-14404 CVE-2018-14567 CVE-2019-19956 CVE-2019-20388 CVE-2020-7595 CVE-2020-24977) (Bug 52004)
- **linux** (CVE-2018-9517 CVE-2019-2182 CVE-2019-5108 CVE-2019-19319 CVE-2019-19462 CVE-2019-19768 CVE-2019-20806 CVE-2019-20810 CVE-2019-20811 CVE-2020-0009 CVE-2020-0543 CVE-2020-1749 CVE-2020-2732 CVE-2020-8428 CVE-2020-8647 CVE-2020-8648 CVE-2020-8649 CVE-2020-9383 CVE-2020-10690 CVE-2020-10711 CVE-2020-10732 CVE-2020-10751 CVE-2020-10757 CVE-2020-10766 CVE-2020-10767 CVE-2020-10768 CVE-2020-10942 CVE-2020-11494 CVE-2020-11565 CVE-2020-11608 CVE-2020-11609 CVE-2020-11668 CVE-2020-12114 CVE-2020-12464 CVE-2020-12652 CVE-2020-12653 CVE-2020-12654 CVE-2020-12769 CVE-2020-12770 CVE-2020-12826 CVE-2020-13143 CVE-2020-13974) (Bug 51490 Bug 51702)
- **mariadb-10.1** (CVE-2020-2752 CVE-2020-2812 CVE-2020-2814) (Bug 51701)
- **net-snmp** (CVE-2020-15861 CVE-2020-15862) (Bug 51757 Bug 51795)
- **nfs-utils** (CVE-2019-3689) (Bug 51696)
- **openexr** (CVE-2017-9110 CVE-2017-9111 CVE-2017-9112 CVE-2017-9113 CVE-2017-9114 CVE-2017-9115 CVE-2017-9116 CVE-2017-12596 CVE-2020-11758 CVE-2020-11759 CVE-2020-11760 CVE-2020-11761 CVE-2020-11762 CVE-2020-11763 CVE-2020-11764 CVE-2020-11765 CVE-2020-15305 CVE-2020-15306) (Bug 51931)
- **openjdk-8** (CVE-2020-2754 CVE-2020-2755 CVE-2020-2756 CVE-2020-2757 CVE-2020-2773 CVE-2020-2781 CVE-2020-2800 CVE-2020-2803 CVE-2020-2805 CVE-2020-14556 CVE-2020-14577 CVE-2020-14578 CVE-2020-14579 CVE-2020-14581 CVE-2020-14583 CVE-2020-14593 CVE-2020-14621) (Bug 51206 Bug 51825)
- **openjpeg2** (CVE-2019-12973 CVE-2020-6851 CVE-2020-8112 CVE-2020-15389) (Bug 51710)
- **openldap** (CVE-2020-12243) (Bug 51183)
- **perl** (CVE-2020-10543 CVE-2020-10878 CVE-2020-12723) (Bug 51706)
- **php7.0** (CVE-2019-11048 CVE-2020-7062 CVE-2020-7063 CVE-2020-7064 CVE-2020-7066 CVE-2020-7067 CVE-2020-7068) (Bug 51617 Bug 51919)
- **pillow** (CVE-2020-10177) (Bug 51797)
- **poppler** (CVE-2017-18267 CVE-2018-16646 CVE-2018-20481 CVE-2018-21009 CVE-2019-9200 CVE-2019-9631 CVE-2019-10872 CVE-2019-12293) (Bug 51725)
- **python-django** (CVE-2020-13254 CVE-2020-13596) (Bug 51543)
- **python-reportlab** (CVE-2019-17626) (Bug 51171)
- **python2.7** (CVE-2018-20852 CVE-2019-5010 CVE-2019-9636 CVE-2019-9740 CVE-2019-9947 CVE-2019-9948 CVE-2019-16056 CVE-2019-20907) (Bug 51899)

- *python3.5* (CVE-2018-20406 CVE-2018-20852 CVE-2019-5010 CVE-2019-9636 CVE-2019-9740 CVE-2019-9947 CVE-2019-9948 CVE-2019-10160 CVE-2019-16056 CVE-2019-16935 CVE-2019-18348 CVE-2020-8492 CVE-2020-14422) (Bug 51715)
- *qemu* (Bug 51731 Bug 52001)
- *rake* (CVE-2020-8130) (Bug 51711)
- *ruby2.3* (CVE-2020-10663) (Bug 51707)
- *samba* (CVE-2020-10700 CVE-2020-10704 CVE-2020-10730 CVE-2020-10745 CVE-2020-10760 CVE-2020-14303) (Bug 51121 Bug 51532)
- *sane-backends* (CVE-2020-12862 CVE-2020-12863 CVE-2020-12865 CVE-2020-12867) (Bug 51831)
- *sqlite3* (CVE-2018-8740 CVE-2018-20346 CVE-2018-20506 CVE-2019-5827 CVE-2019-9936 CVE-2019-9937 CVE-2019-16168 CVE-2019-20218 CVE-2020-11655 CVE-2020-13434 CVE-2020-13630 CVE-2020-13632 CVE-2020-13871) (Bug 51900)
- *squid3* (CVE-2018-19132 CVE-2019-12519 CVE-2019-12520 CVE-2019-12521 CVE-2019-12523 CVE-2019-12524 CVE-2019-12525 CVE-2019-12526 CVE-2019-12528 CVE-2019-12529 CVE-2019-13345 CVE-2019-18676 CVE-2019-18677 CVE-2019-18678 CVE-2019-18679 CVE-2019-18860 CVE-2020-8449 CVE-2020-8450 CVE-2020-11945) (Bug 51699)
- *tiff* (CVE-2018-12900 CVE-2018-17000 CVE-2018-17100 CVE-2018-19210 CVE-2019-7663 CVE-2019-14973 CVE-2019-17546) (Bug 51204)
- *univention-kernel-image* (CVE-2018-9517 CVE-2019-20810 CVE-2020-0009 CVE-2020-1749 CVE-2020-10690 CVE-2020-10766 CVE-2020-10767 CVE-2020-10768 CVE-2020-12769 CVE-2020-12826 CVE-2020-13974) (Bug 51702)
- *univention-kernel-image-signed* (CVE-2018-9517 CVE-2019-2182 CVE-2019-5108 CVE-2019-19319 CVE-2019-19462 CVE-2019-19768 CVE-2019-20806 CVE-2019-20810 CVE-2019-20811 CVE-2020-0009 CVE-2020-0543 CVE-2020-1749 CVE-2020-2732 CVE-2020-8428 CVE-2020-8647 CVE-2020-8648 CVE-2020-8649 CVE-2020-9383 CVE-2020-10690 CVE-2020-10711 CVE-2020-10732 CVE-2020-10751 CVE-2020-10757 CVE-2020-10766 CVE-2020-10767 CVE-2020-10768 CVE-2020-10942 CVE-2020-11494 CVE-2020-11565 CVE-2020-11608 CVE-2020-11609 CVE-2020-11668 CVE-2020-12114 CVE-2020-12464 CVE-2020-12652 CVE-2020-12653 CVE-2020-12654 CVE-2020-12769 CVE-2020-12770 CVE-2020-12826 CVE-2020-13143 CVE-2020-13974) (Bug 51490 Bug 51702)
- *univention-updater* (CVE-TMP51672) (Bug 51672)
- *vlc* (Bug 51205 Bug 51544)
- *wpa* (CVE-2019-10064 CVE-2019-16275 CVE-2020-12695) (Bug 51698 Bug 51794)
- *xorg-server* (CVE-2020-14345 CVE-2020-14346 CVE-2020-14347 CVE-2020-14361 CVE-2020-14362) (Bug 51930)
- The following updated packages from Debian Stretch 9.13 are included (Bug 52026): *gnome-shell, base-files, libdbi, linux-latest, neon27, postfix, proftpd-dfsg, sendmail, squid3, tzdata, websockify, xdg-utils, xml-security-c, acmetool, asyncpg, atril, batik, c-icap-modules, chasquid, checkstyle, compactheader, cram, csync2, debian-installer, debian-installer-netboot-images, debian-security-support, fex, file-roller, firejail, fwupd, golang-github-seccomp-libseccomp-golang, gosa, grunt, gssdp, gupnp, heartbleeder, htмлunit, icingaweb2, inetutils, iptables-persistent, jackson-databind, jruby, ksh, lemonldap-ng,*

libapache2-mod-auth-openidc, libbusiness-hours-perl, libclamunrar, libembperl-perl, libetpan, libjackson-json-java, libpam-radius-auth, linux-4.19, linux-latest-4.19, luajit, lucene-solr, mailman, megatools, mercurial, milkytracker, mod-gnutils, mongo-tools, mongodb, mupdf, ndpi, netty, netty-3.9, nginx, node-url-parse, nvidia-graphics-drivers, pcl, php-horde, php-horde-core, php-horde-data, php-horde-form, php-horde-gollem, php-horde-kronolith, php-horde-trean, phpmysadmin, python-icalendar, python-pip, rails, ros-actionlib, roundcube, ruby-json, ruby-kramdown, ruby-rack, ruby-websocket-extensions, ruby-zip, salt, shiro, software-properties, sogo-connector, ssvnc, storebackup, swt-gtk, thunderbird, tinypoxy, tomcat8, transmission, uwsgi, wordpress, xrdp, xtrlock, zabbix

- The following packages have been moved to the maintained repository of UCS: *univention-debhelper* (Bug 51374)

6.2. Basic system services Feedback

6.2.1. Univention Configuration Registry Feedback

- Fixed doing ``open(. . . , 'rw')``, which is invalid with Python 3 (Bug 51680).
- Move *univention.debhelper* into a separate package to break a build dependency cycle (Bug 51374).
- Fix Python 3 interfaces API to use *ipaddress* from the standard library instead of the legacy ``ipaddr`` module no longer available in Debian 10 Buster (Bug 51368).
- The Python 3 compatibility has been improved (Bug 51156).
- Python absolute imports are now used in *univention.config_registry.interfaces* for Python 3 compatibility (Bug 51021).

6.2.1.1. Changes to templates and modules Feedback

- The UCR templates of *univention-base-files* have been adapted to be python2 and python3 compatible (Bug 51006).

6.2.2. Univention Python Feedback

- The Univention Configuration Registry variable `password/quality/mspolicy` has been added to allow configuration of standard MS password criteria. It is not active by default. When set to `yes` or `true`, this check is applied in addition to the `python-cracklib` checks. If set to `sufficient`, then it is done instead of the `python-cracklib` checks. See Univention Configuration Registry variable description for details (Bug 51994).

6.3. Domain services Feedback

6.3.1. OpenLDAP Feedback


- Running OpenLDAP with overlay *ppolicy* could crash ``slapd`` and lead to a denial of service (Bug 37915).
- The *ppolicy* default configuration now allows users to change their own password (Bug 51676).

6.3.1.1. Listener/Notifier domain replication Feedback

- To speed up replication of large LDAP objects, performance inhibiting code for logging will only be executed at the respective debug level (Bug 51236).


- Due to a race condition, the *memberOf* attribute of user objects could have been incomplete on domain-controller backup and domaincontroller slave systems. This problem has now been fixed. To get all user objects back in sync, the script `/usr/share/univention-ldap-overlay-member-of/univention-update-memberof` should be called once on every UCS domaincontroller (Bug 46590).
- Do incremental updates for attribute `uniqueMember` of groups: Changes trigger the slapd overlay module `memberof`, which then needs to update all users of the group. This is inefficient with `MOD_REPLACE` as the overlay then has to walk over all users instead of only the added/removed users. During the walk each user object is touched and triggers a sub-transaction in OpenLDAP. With slow disks this even can lead to `TIMEOUT` errors as the LDAP connection is closed after 5 minutes by default (Bug 48545).
- Internal change: the UCR templates of are now python3 compatible (Bug 51093).
- Fix exception logging in corner cases (Bug 51061).
- Minor code cleanup thanks to Github pull request by <https://github.com/thomasbach-dev> (Bug 51722).
- A race condition between slapd and *univention-directory-notifier* could lead to a deadlock under certain conditions. This has been fixed (Bug 51722).
- Internal change: the UCR templates of *univention-directory-notifier* are now python3 compatible (Bug 51091).
- Internal change: the UCR templates of *univention-directory-listener* are now python3 compatible (Bug 51087).

6.3.2. DNS server


Feedback 

- Added a warning to the description of the UCR variable *dns/backend* not to use *ldap* on UCS domain controller systems running Samba4 (Bug 50501).
- Internal change: the UCR templates of *univention-bind* are now python3 compatible (Bug 51102).
- The start of the LDAP server has a timeout value to prevent deadlocks and allow monitoring solutions to log failed start attempts. That value was made configurable, because the necessary time depends on the number of domains. The variable is called `dns/timeout-start` (Bug 50662).

6.4. Univention Management Console

Feedback 

6.4.1. Univention Management Console web interface

Feedback 

- The styling of the login dialog has been adjusted to allow long texts (Bug 51401).
- The styling of the *simplesamlphp* error page has been enhanced (Bug 45445).
- The message for outdated browsers has been adjusted (Bug 51753).
- The error handling for static errors (e.g. 404 Not Found) do not display an "Inform vendor" button anymore (Bug 51719).
- Some preparations for future development have been made (Bug 51220).
- It is now possible to navigate to an UMC module without the overview of all UMC modules and have only that UMC module open. This can be achieved for example with: <https://fqdn/univention/management/?overview=no#module=top> (Bug 51185).

- The styling for menu entries has been slightly adjusted (Bug 51180).
- The error messages in input fields were sometimes not immediately shown. This problem has been addressed (Bug 51067).
- References to objects containing umlauts (or non ASCII characters) in the DN have been fixed (Bug 50529).
- Internal change: the UCR templates of *univention-directory-manager-rest* are now python3 compatible (Bug 51090).
- After an automatic password rotation, configurable via UCR variable `server/password/interval`, the UDM REST API refused to deliver an `openapi.json` file and disallows further logins (Bug 50708).

6.4.2. Univention Portal

 Feedback 

- Internal change: the UCR templates of *univention-server-overview* are now python3 compatible (Bug 51100).
- A message can now be activated for the portal with the `portal/show-outdated-browser-warning` UCR variable that informs the user about the supported browsers, if the used browser is outdated (Bug 51753).
- Users in the portal live edit mode are now able to see categories without any entries (Bug 50688).
- The Apache template is now correctly updated when changing the UCR variable `ucs/server/sso/fqdn` (Bug 51211).
- Internal change: the UCR templates of *univention-portal* are now python3 compatible (Bug 51099).


6.4.3. Univention Management Console server

 Feedback 

- It is now possible to configure an additional password changing prompt via the UCR Variables `umc/login/password-complexity-message/*` (Bug 51401).
- The error message when a password change failed has been improved (Bug 51496).
- Expired passwords can now be changed in the SAML login dialog (Bug 51492).
- The styling of the *simplesamlphp* error page has been enhanced (Bug 45445).
- The UCR variable `umc/http/max-open-file-descriptors` has been added and the default file descriptor limit for the *univention-management-console-web-server* has been increased to 65535 (Bug 51729).
- The message for outdated browsers has been adjusted (Bug 51753).
- Several memory leaks in the UMC server process have been fixed (Bug 50583).
- The error handling for static errors (e.g. 404 Not Found) do not display an "Inform vendor" button anymore (Bug 51719).
- The title of the login page is now configurable via the `umc/login/texts/title/{de,en}` UCR variables (Bug 51718).
- Updated the `meta.json` file to include UCR variables to configure page titles of the Univention Self Service (Bug 51260).
- LDAP connections in the session shutdown handling and during retrieval of user favorite modules are now closed properly (Bug 51367).


- LDAP connections in the PAM handling are now closed after the authentication was performed (Bug 51366).
- The UMC webserver is now Python 3 compatible (Bug 51353).
- The UMC server components are now Python 3 compatible (Bug 51235).
- Some preparations for the upcoming "Univention Portal" app have been made (Bug 51226).
- The Content-Security-Policy for UMC and its login dialog is now configurable via the `umc/http/content-security-policy/*` and `umc/login/content-security-policy/*` UCR variables. The X-Frame-Options default header has been replaced with the Content-Security-Policy frame-ancestor setting (Bug 51211).
- It is now possible to navigate to an UMC module without the overview of all UMC modules and have only that UMC module open. This can be achieved for example with: `https://fqdn/univention/management/?overview=no#module=top` (Bug 51185).
- Users can now request the deletion of their account on the "Your profile" page of the Self Service. This feature can be activated via the `umc/self-service/account-deregistration/enabled` UCR variable (Bug 51110).
- The `meta.json` now contains more variables for the self service pages (Bug 51001).
- Internal change: the UCR templates of *univention-management-console* are now python3 compatible (Bug 51098).
- The self service now has an option that allows anonymous users to create self registered accounts. The feature is disabled by default (Bug 51067).

6.4.4. Univention App Center

Feedback 

- Allow the execution of custom hooks after install, upgrade and remove (Bug 51790).
- The App Center now mounts `/etc/apt/apt.conf.d/80proxy` from the UCS host read-only to the container with the name `/etc/apt/apt.conf.d/81proxy` (Bug 51034).
- Internal change: the UCR templates of *univention-appcenter* are now python3 compatible (Bug 51101).
- Support for UDP ports in docker compose file has been added (Bug 51069).


6.4.5. Univention Directory Manager UMC modules and command line interface

Feedback 

- The new UDM attribute "*appendACL*" of Samba shares can be used to define custom NT *ACEs* for share folders (Bug 52013).
- The removal of *dns/ptr_record* objects when removing IP addresses from computers and no pointer record would be left over has been repaired (Bug 44710).
- The Simple UDM API did not return an advanced list of DN's if the attribute was not set at all. It merely returned an empty list, which could lead to errors. This has been fixed (Bug 51184).
- Internal improvement: Remove excessive log trace information from UDM modules method `__getitem__()` (Bug 51193).
- *SambaBadPasswordTime*, the timestamp that is created when a user gets locked, can have a different time format than expected by udm when created by Samba3. This led to tracebacks in udm and rejects in the AD-Connector. Udm can handle this time format now (Bug 49697).


- Internal change: the UCR templates of *univention-directory-manager-modules* are now python3 compatible (Bug 51089).
- When initializing a module with a template, if the template has no options set, the defaults for the module options are kept instead of setting them all to true (Bug 51002).

6.4.6. Modules for system settings / setup wizard

 Feedback 

- Proxy settings are now exported as environment variables during the setup (Bug 51799).
- From now on the local `unix` password for the root account in the UCS appliance images is disabled until a proper password is set during the setup (Bug 51954). If a ssh login is required before the setup, the image has to be modified (e.g. add a ssh key for the root user).
- Proxy settings configured in Univention System Setup are now used for `http` and `https` connections. They are applied to the Univention Configuration Registry variables `proxy/http` and `proxy/https`. Previously, only `proxy/http` was used (Bug 50613).
- During the setup use `sha-512` for the root password (Bug 51195).
- Some unused code has been removed (Bug 51185).
- Internal change: the UCR templates of *univention-system-setup* are now python3 compatible (Bug 51025).

6.4.7. Domain join module

 Feedback 


- The dependency on the Admin diary package has been moved to ``Recommends`` to make it optional. Otherwise there is a circular package dependency between ``univention-join`` and ``univention-admin-diary``, which leads to undesired behavior (Bug 51374).
- Internal change: the UCR templates of *univention-join* are now python3 compatible (Bug 51095).
- Restart *univention-directory-listener* on package update (Bug 51532).
- Rebuild with new *ABI* Version 1.5.8 for the samba update (Bug 51532).
- Rebuild for new *ldb* library version (Bug 51121).

6.4.8. Univention Directory Reports

 Feedback 


- Internal change: the UCR templates of *univention-directory-reports* are now python3 compatible (Bug 51095).

6.4.9. License module

 Feedback 


- The previous package update in errata 619 caused the system activation to not work. The *apache2* configuration is fixed with this update (Bug 51420).
- The package now uses ``dh_python2`` instead of ``python-support`` (Bug 51373).
- Internal change: the UCR templates of *univention-system-activation* are now python3 compatible (Bug 51024).

6.4.10. System diagnostic module

 Feedback 


- Permissions for `/etc/freeradius/ssl` are now also checked by the diagnostics module. Permissions for that path should be 2755 (Bug 50887).

6.4.11. Process overview module

Feedback 


- An error while querying of currently running processes has been corrected (Bug 49972).

6.4.12. Filesystem quota module

Feedback 


- Internal change: the UCR templates of *univention-quota* are now python3 compatible (Bug 51010).

6.4.13. Other modules

Feedback 


- It is now possible to assign the Portal Settings module to users and groups via UMC policies (Bug 50688).

6.4.14. Development of modules for Univention Management Console

Feedback 


- Internal change: The UMC module of *univention-management-console-module-lib* is now python3 compatible (Bug 51325).

6.5. Univention base libraries

Feedback 


- Internal improvement: Remove excessive log trace information from *uldap* methods `__getstate__()`, `__setstate__()` and `parentDn()` (Bug 51193).
- The randomization mechanism during LDAP connection setup has been further improved so that it now prefers local LDAP servers over external LDAP servers (Bug 51182).
- A new attribute "*univentionShareSambaBaseDirAppendACL*" was added to the LDAP schema of Samba shares (Bug 52013).
- Internal change: the UCR templates of *univention-ldap* are now python3 compatible (Bug 51029).
- The *univention.lib* Python modules are now Python 3 compatible (Bug 51592).

6.6. Software deployment

Feedback 


- Internal change: the UCR templates of *univention-maintenance* are now python3 compatible (Bug 51020).
- The update to the next UCS version is now blocked if the previous `postup.sh` execution has failed (Bug 51880).
- The UCR variable `version/version` and `version/patchlevel` are now set before the `postup.sh` is called (Bug 46465).
- Fix regression caused by erratum 605 to validate signatures of `preup.sh` and `postup.sh` scripts (Bug 51576).

6.6.1. Software monitor


Feedback 

- Internal change: the UCR templates of *univention-pkgdb* are now python3 compatible (Bug 51139).

6.7. System services


Feedback 

6.7.1. PostgreSQL

Feedback 


- Internal change: the UCR templates of *univention-postgresql* are now python3 compatible (Bug 51112).

6.7.2. MySQL and MariaDB

Feedback 


- Internal change: the UCR templates of *univention-mariadb* are now python3 compatible (Bug 51137).

6.7.3. Docker

Feedback 


- Internal change: the UCR templates of *univention-docker-container-mode* are now python3 compatible (Bug 51132).
- In `/etc/systemd/system/docker.service.d/http-proxy.conf` the ucr var `proxy/no_proxy` is considered for the docker proxy settings (Bug 51031).
- Internal change: the UCR templates *univention-docker* of are now python3 compatible (Bug 51132).

6.7.4. SAML

Feedback 

- Expired passwords can now be changed in the SAML login dialog (Bug 51492).
- The possibility to report SAML errors can now be deactivated via the UCR variable `saml/idp/show-error-reporting` (Bug 51801).
- The styling of the *simplesamlphp* error page has been enhanced (Bug 45445).
- Add missing dependency on UCR variables for the `login.{definition,translation}.json` template files (Bug 51747).
- The title of the login page is now configurable via the `umc/login/texts/title/{de,en}` UCR variables (Bug 51718).
- It is now possible to activate SAML service provider for groups, not only for individual users (Bug 47567).
- The Content-Security-Policy is now configurable via the `saml/apache2/content-security-policy/` UCR variables (Bug 51211).
- The self service can now be set up to allow users to create their own account (see also Bug #51067). For this new feature the SAML identity provider has been adapted, to be configurable to deny login for unverified, self registered accounts (Bug 51068).
- The configuration of SAML identity providers has been extended by the possibility to configure an attribute mapping for the LDAP attributes required by the Service providers (Bug 48927).

6.7.5. Univention self service


Feedback 

- The error message when changing the password failed has been improved (Bug 51496).
- If a password recovery email is successfully used to recover access to an account, that address will now be considered verified (Bug 51262).
- The page titles are now configurable via the UCR variables ``umc/self-service/{page}/title/{lang}`` (Bug 51260).
- Nested groups are now correctly evaluated for Self Service white- and blacklists (Bug 51261).
- The 'Forgot your password?' link on the login page was not shown by default anymore (Bug 51533).
- Blacklists and *whitelists* for editing a user profile via the "Your profile" page of the Self Service and deleting an account via the "Delete my account" button on the "Your profile" page are no longer con-

figured via the `umc/self-service/passwordreset/{blacklist,whitelist}/{users,groups}` UCR variables but the `umc/self-service/profiledata/{blacklist,whitelist}/{users,groups}` and `umc/self-service/account-deregistration/{...}` UCR variables respectively (Bug 51259).


- The Self Service links in the hamburger menu are no longer visible if the corresponding Self Service page was disabled via UCR (Bug 51351).
- The Content-Security-Policy is now configurable via the `umc/self-service/content-security-policy/*` UCR variables (Bug 51211).
- When requesting a new token, do not disclose the email address of the user (Bug 51152).
- Users can now request the deletion of their account on the "Your profile" page of the Self Service. This feature can be activated via the `umc/self-service/account-deregistration/enabled` UCR variable (Bug 51110).
- Added UCR variables to enable administrators to switch off all pages (and backend functions) individually (Bug 51001).
- The self service now has an option that allows anonymous users to create self registered accounts. The feature is disabled by default (Bug 51067).

6.7.6. Mail services

Feedback 


- Internal change: the UCR templates of `univention-fetchmail` are now python3 compatible (Bug 51148).
- Internal change: the UCR templates of `univention-antivir-mail` are now python3 compatible (Bug 51149).

6.7.7. Dovecot

Feedback 


- Internal change: the UCR templates of `univention-mail-dovecot` are now python3 compatible (Bug 51147).

6.7.8. Postfix

Feedback 


- Internal change: the UCR templates of `univention-postgrey` are now python3 compatible (Bug 51146).
- Internal change: the UCR templates of `univention-mail-postfix` are now python3 compatible (Bug 51151).

6.7.9. Spam/virus detection and countermeasures

Feedback 


- Internal change: the UCR templates of `univention-dansguardian` are now python3 compatible (Bug 51144).

6.7.10. Printing services

Feedback 


- Internal change: the UCR templates of `univention-printquota` are now python3 compatible (Bug 51140).
- A shell quoting error in the cups-printer listener module has been corrected which prevented the creation of printers for certain ACLs (Bug 51196).
- Internal change: the UCR templates of `univention-printserver` are now python3 compatible (Bug 51129).

6.7.11. Nagios

Feedback 


- Internal change: the UCR templates of are `univention-snmpd` now python3 compatible (Bug 51143).
- Internal change: the UCR templates of `univention-nagios` are now python3 compatible (Bug 51214).

6.7.12. Apache

Feedback 


- Internal change: the UCR templates of *univention-apache* are now python3 compatible (Bug 51077).

6.7.13. RADIUS

Feedback 


- Permissions for directory `/etc/freeradius/ssl` are now set during installation by join-script *80univention-radius*. Permissions are also set via postinst script `univention-radius.postinst` (Bug 50887).
- Internal change: the UCR templates of *univention-radius* are now python3 compatible (Bug 51130).

6.7.14. Proxy services

Feedback 


- Internal change: the UCR templates of *univention-squid* are now python3 compatible (Bug 51133).

6.7.15. Kerberos

Feedback 


- Internal change: the UCR templates of *univention-heimdal* are now python3 compatible (Bug 51016).

6.7.16. SSL

Feedback 

- Internal change: the UCR templates of *univention-ssl* are now python3 compatible (Bug 51022).
- The list of public SSL root certificates has been updated (Bug 51732).

6.7.17. DHCP server

Feedback 


- Internal change: the UCR templates of *univention-dhcp* are now python3 compatible (Bug 51136).

6.7.18. PAM / Local group cache

Feedback 


- Internal change: the UCR templates of *univention-sasl* are now python3 compatible (Bug 51142).
- Internal change: the UCR templates of *univention-pam* are now python3 compatible (Bug 51224).
- Internal change: the UCR templates of *univention-pam* are now python3 compatible (Bug 51027).

6.7.19. NFS

Feedback 


- Internal change: the UCR templates of *univention-nfs* are now python3 compatible (Bug 51138).

6.7.20. Other services

Feedback 


- Internal change: the UCR templates of *univention-firewall* are now python3 compatible (Bug 51035).

6.8. Desktop

Feedback 

- Internal change: the UCR templates of *univention-kdm* are now python3 compatible (Bug 51218).

6.9. Virtualization

Feedback 


6.9.1. UCS Virtual Machine Manager (UVMM)

Feedback 

- Internal change: the UCR templates of *univention-virtual-machine-manager-daemon* are now python3 compatible (Bug 51215).


- Fix UCR template installation for package *univention-virtual-machine-manager-node-common*, which makes the KVM node reachable via network again (Bug 51739).
- Internal change: the UCR templates of *univention-virtual-machine-manager-node* are now python3 compatible (Bug 51215).
- Internal change: the UCR templates of *univention-virtual-machine-manager-schema* are now python3 compatible (Bug 51215).

6.9.2. Operate UCS as virtual machine


Feedback 

- Internal change: the UCR templates of *univention-cloud-init* are now python3 compatible (Bug 51135).

6.10. Services for Windows


Feedback 

6.10.1. Samba

Feedback 


- The Samba share listener will now apply all modified NT *ACEs* given in the UDM attribute "*appendACL*" to share folders (Bug 52013).
- A python syntax error has been removed in the UCR configuration file `/etc/samba/base.conf` (Bug 51212).
- Internal change: the UCR templates of *univention-samba* are now python3 compatible (Bug 51131).
- The Samba share listener will now apply all modified NT *ACEs* given in the UDM attribute "*appendACL*" to share folders (Bug 52013).
- Internal change: the UCR templates of *univention-samba4* are now python3 compatible (Bug 51131).
- Rebuild with new *ABI* Version 1.5.8 for the samba update (Bug 51532).

6.10.2. Univention S4 Connector

Feedback 

- (Bug 51298, Bug 51462).
- Internal change: the UCR templates of *univention-s4-connector* are now python3 compatible (Bug 51159).

6.10.3. Univention Active Directory Connection


Feedback 

- Support *ldaps* configuration in *univention-ad-search* and *univention-connector-list-rejected* (Bug 51673).
- Fix error handling regression of Bug #51518 (Bug 51915).
- In AD connections with ``read`` configuration (e.g. in AD member mode) changes to the AD attribute ``mail`` did not get synchronized to the UDM/OpenLDAP attribute ``mailPrimaryAddress`` any more since Erratum 636 (Bug 51647).
- The synchronization of the *pwdChangeNextLogin* flag only worked if the password was reset at the same time. This behavior has been fixed (Bug 51585).
- Fix UCS to AD *Diff-Mode* synchronization from the OpenLDAP attributes *telephoneNumber*, *homePhone*, *mobilePhone* and *pager* to the MS AD attributes *otherTelephone*, *otherHomePhone*, *otherMobile* and *otherPager* (Bug 51567).
- Log the active mapping on startup (Bug 51518).

Other changes

- Basic profiling support via UCR connector/ad/poll/profiling (Bug 51518).
- Ignore changes to a list of irrelevant attributes. The list can be extended via a new UCR variable connector/ad/mapping/attributes/irrelevant (Bug 18501).
- The `Diff-Mode` synchronization technique originally implemented for the S4-Connector has been merged to the AD-Connector. This affects the replication of multi value attribute values such that only added and removed attribute values are modified on the destination system, but values unchanged on the source of replication are also unchanged on the destination. Before this update, all values of an attribute changed in the source LDAP got replaced in the destination LDAP. Please note that there is no change in the replication of group memberships, because they already have been replicated in `Diff-Mode` before (Bug 51462).
- The flag `pwdChangeNextLogin` is now synced bidirectionally by the **adconnector** (Bug 51298).
- Internal change: the UCR templates of **univention-ad-connector** are now python3 compatible (Bug 51160).

6.11. Other changes

 Feedback 

- Re-add `univention-archive-key-ucs-3x.gpg`. This fixes an issue that a UCS repository mirror could not download packages (Bug 51603).
- Add new PGP public key `univention-archive-key-ucs-5x.gpg` for UCS 5 and remove expired key `univention-archive-key-ucs-3x.gpg` from UCS-3 (Bug 51250).
- Internal change: the UCR templates of **univention-mozilla-firefox** are now python3 compatible (Bug 51218).
- Internal change: the UCR templates of **univention-initrd** are now python3 compatible (Bug 51019).
- Internal change: the UCR templates of **univention-kde** are now python3 compatible (Bug 51218).
- Make `http_proxy` environment variable accessible by the **spamassassin** cron job (Bug 44489).
- Internal change: the UCR templates of **univention-spamassassin** are now python3 compatible (Bug 51145).
- Internal change: the UCR templates of are now python3 compatible (Bug 51086).
- Internal change: the UCR templates of **univention-directory-policy** are now python3 compatible (Bug 51092).
- Internal change: the UCR templates are now python3 compatible (Bug 51088).
- **univention-directory-logger** is now able to prefix related log lines with the same transaction ID. This new feature is automatically enabled on fresh installations of **univention-directory-logger** but remains disabled during updates. Set `ldap/logging/id-prefix=yes` to enable this feature manually (Bug 51082).
- Internal change: the UCR templates of **univention-sudo** are now python3 compatible (Bug 51023).
- Check for old upgrade code (Bug 51611).
- Allow line specific overrides (Bug 33736).
- Allow using Python 3 (Bug 51637).
- Check for well-known SIDs (Bug 33737).
- Check for common shell issues (Bug 51612).

- Check for usage of ``debian/* .pyinstall`` files to install Python modules (Bug 51106).
- Check users of ``custom_{user,group}name()`` registering for required UCR variables (Bug 50056).
- Check for packages declaring dependencies on ``Essential:yes`` packages (Bug 51476).
- Check for usage of ``uldap.searchDn()`` (Bug 51375).
- ``ucslint`` has been removed as a direct dependency from all UCS packages as it now runs directly from our CI pipeline (Bug 42294).
- Debian maintainer script ``debian/*.{pre,post}{inst,rm}`` are now checked for handling wrong actions (Bug 43981).
- *Un-joinscript* files are now checked for errors, too (Bug 48747).
- The ``debian/changelog`` file is checked for strict-monotonic entries. In the past this has lead to surprising update results as the timestamp of the latest entry is used for many things during the package build (Bug 49620).
- ``debian/*.ucs`` files are checked more strictly due to the switch to Python 3. For example duplicate keys are now errors (Bug 49683).
- New ``debhelper`` related files in ``debian/`` are recognized (Bug 51246).
- ``debian/* .dirs`` is now checked for unneeded entries which are already created indirectly by other steps (Bug 51247).
- ``debian/compat`` is now checked for consistency with the declared versioned build dependency of ``debhelper`` in ``debian/control`` (Bug 51248).
- UCS templates are checked for compatibility with Python 2 and 3 (Bug 51107).
- Invalid Python string literals are now detected (Bug 51105).
- The code base has been converted to Python 3 (Bug 49704).
- Internal change: the UCR templates of *univention-passwd-store* are now python3 compatible (Bug 51008).
- Internal change: the UCR templates of *univention-x-core* are now python3 compatible (Bug 51218).
- Python 3 compatibility for the UMC debhelper scripts has been added (Bug 51235).
- Do not set UCR variables ``ldap/overlay/memberof/`` before system is joined (Bug 47641).
- Internal change: the UCR templates of *univention-ldap-overlay-memberof* are now python3 compatible (Bug 51096).
- Modified the 'Change password' menu entry for future feature release compatibility (Bug 51181).
- When authenticating with an expired password via *pam-krb5*, heimdal prompted for a password change, which led to the password being overwritten with the old password. This behavior has been fixed (Bug 51462).
- Internal change: the UCR templates of *univention-printclient* are now python3 compatible (Bug 51009).
- Internal change: the UCR templates of *univention-grub* are now python3 compatible (Bug 51018).
- Internal change: the UCR templates of *univention-directory-manager-module-example* are now python3 compatible (Bug 51216).