

Scap compliance checker 5.0 user manual

I'm not a robot 
reCAPTCHA

Next

Windows Computer Security Compliance 1.4 (25 unique settings)				
Administrative				
Name	Default	Microsoft	Customized	None
Protect files and directories	Administrators, B- Not Defined	Not Defined	Import	None
Create symbolic links	Administrators, T- Not Defined	Not Defined	Import	None
Read user files and directories	Administrators, B- Not Defined	Not Defined	Import	None
Take ownership of files on other user's drives	Administrators, Administrators, T- Not Defined	Administrators	Import	None
Access file and folder	Everyone, Admins, Users, NT AUTHORITY\SYSTEM, Users, NT AUTHORITY\SYSTEM	Custom	Import	None
Identity Management (11 settings)				
Accounts local account status	Enabled	Enabled	Enabled	Custom
Network accounts can change picture (Custom)	Enabled	Enabled	Enabled	Custom
Accounts Rename administrator and Administrators	Not Defined	Not Defined	Custom	None
Accounts Rename guest account	None	Not Defined	Not Defined	Import
Accounts Rename administrator account user (Custom)	Not Defined	Not Defined	Custom	None
Key Management (2 settings)				
Domain controller Secure string (0) Created	Enabled	Enabled	Custom	None
System cryptographic Secure string (0) Created	Not Defined	Not Defined	Import	None
Local Remotability (4 settings)				
DCOM: Machine Launch Restrictions (Not Defined)	Not Defined	Not Defined	Custom	None
System settings (Not Set) (Not Defined)	Not Defined	Not Defined	Custom	None
WMI Publishing (Local and Network) (Not Defined)	Enabled	Enabled	Custom	None
Turn off Session (Emergency session) (Enabled)	Enabled	Enabled	Custom	None
Windows logon (Do not require a PWD save path)	Enabled	Enabled	Custom	None
Network access (Do not allow anyone to connect)	Enabled	Enabled	Custom	None
Network access (Everyone) (Enabled)	Enabled	Enabled	Custom	None



NETGEAR®

AC1600 WiFi Cable Modem Router

Model C6250
User Manual

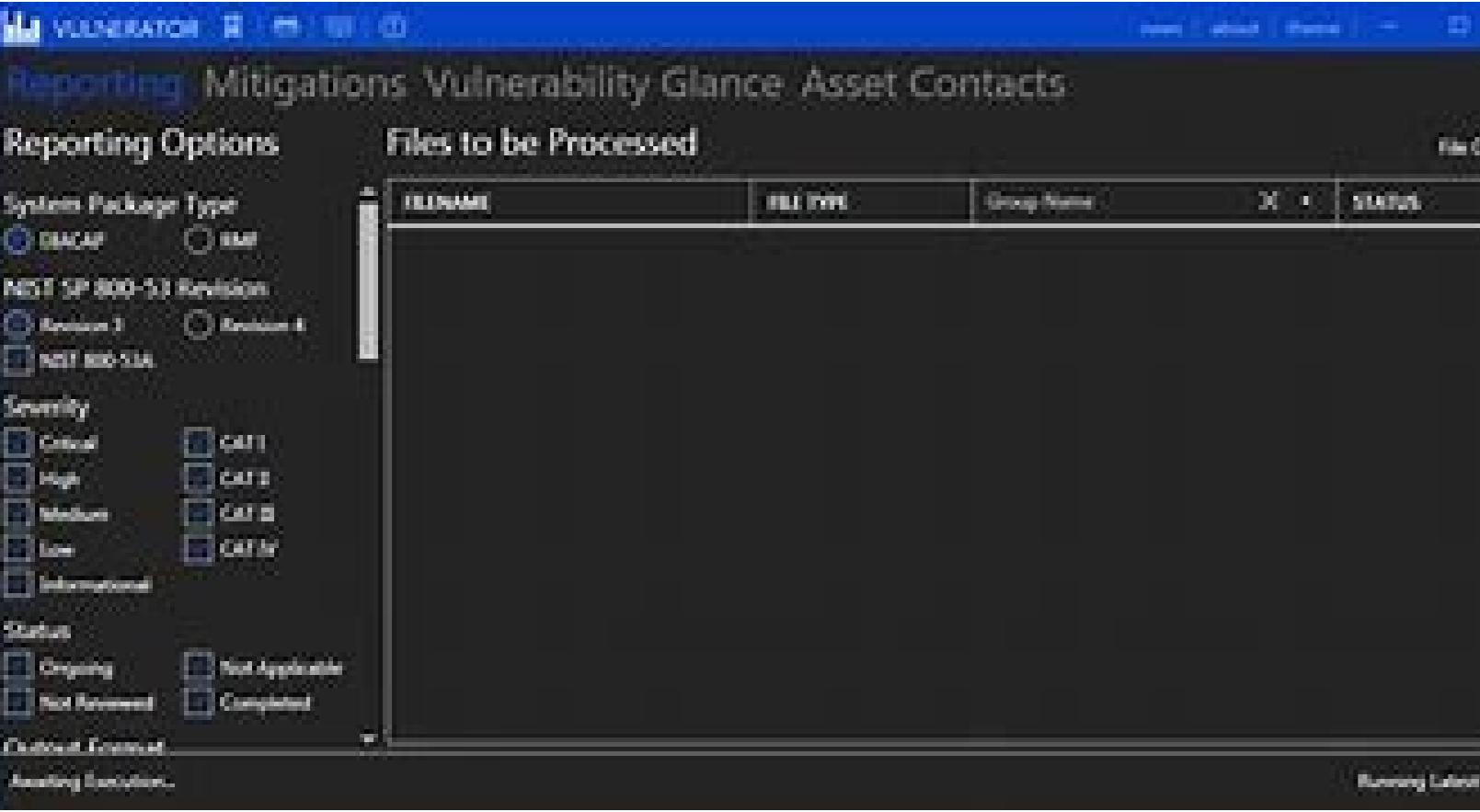


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Historical Outlines of English Sounds and Inflections

Worthington Airport Library



English Nederlands logout Home / Tools List of all available tools for penetration testing. Tool count: 2817 Page 2Home / Tools / 0d1n List of all available tools for penetration testing. 0d1n Summary We're Obsessed with Your Privacy 1. Anonymous Chatting At GradeMiners, you can communicate directly with your writer on a no-name basis. 2. Secure Payment Methods We accept only Visa, MasterCard, American Express and Discover for online orders. 3. Complete Confidentiality Your personal details remain confidential and won't be disclosed to the writer or other parties. Show Table of Contents Red Hat Enterprise Linux 8.3Abstract The Release Notes provide high-level coverage of the improvements and additions that have been implemented in Red Hat Enterprise Linux 8.3 and document known problems in this release, as well as notable bug fixes, Technology Previews, deprecated functionality, and other details. We appreciate your input on our documentation. Please let us know how we could make it better. To do so: For simple comments on specific passages, make sure you are viewing the documentation in the Multi-page HTML format. Highlight the part of text that you want to comment on. Then, click the Add Feedback pop-up that appears below the highlighted text, and follow the displayed instructions. For submitting more complex feedback, create a Bugzilla ticket: Go to the Bugzilla website. As the Component, use Documentation. Fill in the Description field with your suggestion for improvement. Include a link to the relevant part(s) of documentation. Click Submit Bug. In RHEL 8.3, you can configure a root password and create a user account before you begin the installation. Previously, you configured a root password and created a user account after you began the installation process. You can also create customized images based on a much more reliable backend and also push images to clouds through the RHEL web console. RHEL for Edge RHEL 8.3 introduces RHEL for Edge for remotely installing RHEL on Edge servers. RHEL for Edge is an rpm-ostree image that you can compose using Image Builder. You can install the image using a Kickstart file and then manage the image to include image updates and to roll back an image to a previous functional state. Following are RHEL for Edge key highlights: Atomic upgrades, where the state of each update is known and no changes are seen until you reboot the device. Custom health checks and intelligent rollbacks to ensure resiliency. Container-focused workflows, where you can separate core OS updates from the application updates, and test and deploy different versions of applications. Optimized OTA payloads for low-bandwidth environments. For more information, see Section 5.1.2, "RHEL for Edge". Infrastructure services The Tuned system tuning tool has been rebased to version 2.13, which adds support for architecture-dependent tuning and multiple include directives. Security RHEL 8.3 provides Ansible roles for automated deployments of Policy-Based Decryption (PBD) solutions using Clevis and Tang, and this version of the rhel-system-roles package also contains an Ansible role for RHEL logging through Rsyslog. The scap-security-guide packages have been rebased to version 0.1.50, and OpenSCAP has been rebased to version 1.3.3. These updates provide substantial improvements, including a profile aligned with the CIS RHEL 7 Benchmark v2.2.0 and a profile aligned with the Health Insurance Portability and Accountability Act (HIPAA) that is required by North-American healthcare organizations. With this update, you can now generate result-based remediation roles from tailored profiles using the SCAP Workbench tool. The USBGuard framework now provides its own SELinux policy, it notifies desktop users in GUI, and the version 0.7.8 contains many other improvements and bug fixes. Dynamic programming languages, web and database servers Later versions of the following components are now available as new module streams: nginx 1.18 Node.js 14 Perl 5.30 PHP 7.4 Ruby 2.7 The following components have been updated in RHEL 8.3: Git to version 2.27 Squid to version 4.11 See Section 5.1.11, "Dynamic programming languages, web and database servers" for more information. The following compiler toolsets have been updated in RHEL 8.3: GCC Toolset 10 LLVM Toolset 10.0.1 Rust Toolset 1.45.2 Go Toolset 1.14.7 See Section 5.1.12, "Compilers and development tools" for more information. Identity Management The Rivest Cipher 4 (RC4) cipher suite, the default encryption type for users, services, and trusts between Active Directory (AD) domains in an AD forest, has been deprecated in RHEL 8. For compatibility reasons, this update introduces a new cryptographic subpolicy AD-SUPPORT to enable support for the deprecated RC4 encryption type. The new subpolicy allows you to use RC4 with RHEL Identity Management (IdM) and SSSD Active Directory integration solutions. See Section 5.1.13, "Identity Management" for more information. The web console The web console provides an option to switch between administrative access and limited access from inside of a user session. Virtualization Virtual machines (VMs) hosted on IBM Z hardware can now use the IBM Secure Execution feature. This makes the VMs resistant to attacks if the host is compromised, and also prevents untrusted hosts from obtaining information from the VM. In addition, DASD devices can now be assigned to VMs on IBM Z. Desktop and graphics You can now use the GNOME desktop on IBM Z systems. The Direct Rendering Manager (DRM) kernel graphics subsystem has been rebased to upstream Linux kernel version 5.6. This version provides a number of enhancements over the previous version, including support for new GPUs and APUs, and various driver updates. See Section 5.1.14, "Desktop" and Section 5.1.15, "Graphics infrastructures" for further details. In-place upgrade and OS conversion In-place upgrade from RHEL 7 to RHEL 8 The supported in-place upgrade paths currently are: From RHEL 7.8 to RHEL 8.2 on the 64-bit Intel, IBM POWER 8 (little endian), and IBM Z architectures From RHEL 7.6 to RHEL 8.2 on architectures that require kernel version 4.14: IBM POWER 9 (little endian) and IBM Z (Structure A) From RHEL 7.7 to RHEL 8.2 on systems with SAP HANA. To ensure your system remains supported after upgrading to RHEL 8.2, either update to the latest RHEL 8.3 version or enable the RHEL 8.2 Extended Update Support (EUS) repositories. On systems with SAP HANA, enable the RHEL 8.2 Update Services for SAP Solutions (E4S) repositories. For more information, see Supported in-place upgrade paths for Red Hat Enterprise Linux. For instructions on performing an in-place upgrade, see Upgrading from RHEL 7 to RHEL 8. Notable enhancements include: Leapp now supports user input by generating true/false questions to determine how to proceed with the upgrade. You can now upgrade multiple hosts simultaneously using the Satellite web UI. The in-place upgrade is now supported for on-demand instances on AWS and Microsoft Azure, using Red Hat Update Infrastructure (RHUI). With the release of the RHBA-2021-0569 advisory, you can create custom scripts for the Leapp pre-upgrade report. See Automating your Red Hat Enterprise Linux pre-upgrade report workflow for details. In-place upgrade from RHEL 6 to RHEL 8 To upgrade from RHEL 6.10 to RHEL 8.2, follow instructions in Upgrading from RHEL 6 to RHEL 8. Conversion from a different Linux distribution to RHEL If you are using CentOS Linux 8 or Oracle Linux 8, you can convert your operating system to RHEL 8 using the Red Hat-supported Convert2RHEL utility. For more information, see Converting from an RPM-based Linux distribution to RHEL. If you are using an earlier version of CentOS Linux or Oracle Linux, namely versions 6 or 7, you can convert your operating system to RHEL and then perform an in-place upgrade to RHEL 8. Note that CentOS Linux 6 and Oracle Linux 6 conversions use the unsupported Convert2RHEL utility. For more information on unsupported conversions, see How to convert from CentOS Linux 6 or Oracle Linux 6 to RHEL 6. For information regarding how Red Hat supports conversions from other Linux distributions to RHEL, see the Convert2RHEL Support Policy document. OpenJDK 11 is now available New version of Open Java Development Kit (OpenJDK) is now available. For more information about the features introduced in this release and changes in the existing functionality, see OpenJDK features. Additional resources Red Hat Customer Portal Labs Red Hat Customer Portal Labs is a set of tools in a section of the Customer Portal available at . The applications in Red Hat Customer Portal Labs can help you improve performance, quickly troubleshoot issues, identify security problems, and quickly deploy and configure complex applications. Some of the most popular applications are: Red Hat Enterprise Linux 8.3 is distributed with the kernel version 4.18.0-240, which provides support for the following architectures: AMD and Intel 64-bit architectures The 64-bit ARM architecture IBM Power Systems, Little Endian 64-bit IBM Z Make sure you purchase the appropriate subscription for each architecture. For more information, see Get Started with Red Hat Enterprise Linux - additional architectures. For a list of available subscriptions, see Subscription Utilization on the Customer Portal. Red Hat Enterprise Linux 8 is installed using ISO images. Two types of ISO image are available for the AMD64, Intel 64-bit, 64-bit ARM, IBM Power Systems, and IBM Z architectures: Binary DVD ISO: A full installation image that contains the BaseOS and AppStream repositories and allows you to complete the installation without additional repositories. The Binary DVD ISO image is larger than 4.7 GB, and as a result, it might not fit on a single-layer DVD. A dual-layer DVD or USB key is recommended when using the Binary DVD ISO image to create bootable installation media. You can also use the Image Builder tool to create customized RHEL images. For more information about Image Builder, see the Composing a customized RHEL system image document. Boot ISO: A minimal boot ISO image that is used to boot into the installation program. The repositories are part of the Binary DVD ISO image. See the Performing a standard RHEL installation document for instructions on downloading ISO images, creating installation media, and completing a RHEL installation. For automated Kickstart installations and other advanced topics, see the Performing an advanced RHEL installation document. Red Hat Enterprise Linux 8 is distributed through two main repositories: Both repositories are required for a basic RHEL installation, and are available with all RHEL subscriptions. Content in the BaseOS repository is intended to provide the core set of the underlying OS functionality that provides the foundation for all installations. This content is available in the RPM format and is subject to support terms similar to those in previous releases of RHEL. For a list of packages distributed through BaseOS, see the Package manifest. Content in the Application Stream repository includes additional user space applications, runtime languages, and databases in support of the varied workloads and use cases. Application Streams are available in the familiar RPM format, as an extension to the RPM format called modules, or as Software Collections. For a list of packages available in AppStream, see the Package manifest. In addition, the CodeReady Linux Builder repository is available with all RHEL subscriptions. It provides additional packages for use by developers. Packages included in the CodeReady Linux Builder repository are unsupported. For more information about RHEL 8 repositories, see the Package manifest. Red Hat Enterprise Linux 8 introduces the concept of Application Streams. Multiple versions of user space components are now delivered and updated more frequently than the core operating system packages. This provides greater flexibility to customize Red Hat Enterprise Linux without impacting the underlying stability of the platform or specific deployments. Components made available as Application Streams can be packaged as modules or RPM packages and are delivered through the AppStream repository in RHEL 8. Each Application Stream component has a given life cycle, either the same as RHEL 8 or shorter. For details, see Red Hat Enterprise Linux Life Cycle. Modules are collections of packages representing a logical unit: an application, a language stack, a database, or a set of tools. These packages are built, tested, and released together. Module streams represent versions of the Application Stream components. For example, several streams (versions) of the PostgreSQL database server are available in the postgresql module with the default postgresql:10 stream. Only one module stream can be installed on the system. Different versions can be used in separate containers. Detailed module commands are described in the Installing, managing, and removing user-space components document. For a list of modules available in AppStream, see the Package manifest. On Red Hat Enterprise Linux 8, installing software is ensured by the YUM tool, which is based on the DNF technology. We deliberately adhere to usage of the yum term for consistency with previous major versions of RHEL. However, if you type dnf instead of yum, the command works as expected because yum is an alias to dnf for compatibility. For more details, see the following documentation: Red Hat makes Red Hat Enterprise Linux 8 content available quarterly, in between minor releases (8.Y). The quarterly releases are numbered using the third digit (8.Y.1). The new features in the RHEL 8.3.1 release are described below. Flatpak packages for several desktop applications Flatpak is a system for running graphical applications as containers. Using Flatpak, you can install and update an application independently of the host operating system. This update provides Flatpak container images of the following applications in the Red Hat Container Catalog: To install Flatpak containers available in the Red Hat Container Catalog, use the following procedure: Make sure that the latest version of the Flatpak client is installed on your system: # yum update flatpak Enable the RHEL Flatpak repository: # flatpak remote-add rhel Provide the credentials for your RHEL account: # podman login registry.redhat.io By default, Podman saves the credentials only until the user logs out. Optional: Save your credentials permanently: \$ cp \$XDG_RUNTIME_DIR/containers/auth.json \$HOME/.config/flatpak/oci-auth.json Install the Flatpak container image: \$ flatpak install rhel container-id (JIRA:RHELPLAN-30958, BZ#1920689, BZ#1921179, BZ#1921802, BZ#1916412, BZ#1921812, BZ#1920604) Rust Toolset rebased to version 1.47.0 Rust Toolset has been updated to version 1.47.0. Notable changes include: The compile-time evaluated functions const fn have been improved and can now use control flow features, for example if, while, and match. The new #[track_caller] annotation can now be put on functions. Panics from annotated functions report the caller as the source. The Rust Standard Library now generically implements traits for arrays of any length. Previously, many of the trait implementations for arrays were only filled for lengths between 0 and 32. For detailed instructions regarding usage, see Using Rust Toolset. (BZ#1883839) The Logging System Role now supports property-based filter on its outputs. With this update, property-based filters have been added to the files output, the forwards output, and the remote_files output of the Logging System Role. The feature is provided by underlying the rsyslog sub-role, and is configurable via the Logging RHEL System Role. As a result, users can benefit from the ability of filtering log messages by the properties, such as hostname, tag, and the message itself is useful to manage logs. (BZ#1889492) The Logging RHEL System Role now supports rsyslog behavior. With this enhancement, rsyslog receives the message from Red Hat Virtualization and forwards the message to the elasticsearch. (BZ#1889893) The ubi8/pause container image is now available Podman now uses the ubi8/pause instead of the k8s.gcr.io/pause container image to hold the network namespace information of the pod. (BZ#1690785) Podman rebased to version 2.1 The Podman utility has been updated to version 2.1. Notable enhancements include: Changes: Updated Podman to 2.2.1 (from 2.0.5), Buildah to 1.19 (from 1.15.1), Skopeo to 1.2.1 (from 1.1.1), Uidica to 0.2.3 (from 0.2.2), and CRUI to 3.15 (0.3.4) Docker-compatible volume API endpoints (Create, Inspect, List, Remove, Prune) are now available. Added an API endpoint for generating systemd unit files for containers. The podman play kube command now features support for setting CPU and Memory limits for containers. The podman play kube command now supports persistent volumes. The podman play kube command now supports Kubernetes configmaps via the --configmap option. Experimental support for shortname aliasing has been added. This is not enabled by default, but can be turned on by setting the environment variable CONTAINERS_SHORT_NAME_ALIASING to on. For more information see Container image short names in Podman. The new podman image command has been added. This allows for an image to be mounted, read-only, to inspect its contents without creating a container from it. The podman save and podman load commands can now create and load archives containing multiple images. Podman will now retry pulling an image at most 3 times if a pull fails due to network errors. Bug Fixes: Fixed a bug where running systemd in a container on a cgroups v1 system would fail. The Buildah tool has been updated to version 1.19. Notable enhancements include: Changes: The `buildah inspect` command now supports inspecting manifests. The `buildah push` command supports pushing manifests lists and digests. Added support for --manifest flags. The --arch and --os and --variant options has been added to select architecture and OS. Allow FROM to be overridden with --from option. Added --ignorefile flag to use alternate .dockernignore flags short-names aliasing. Added --policy option to buildah pull command. Fix buildah mount command to display container names not IDs. Improved buildah completions. Use --timestamp flag for pipes for copying. Added --omit-timestamp flag to buildah bud command. Add VFS additional image store to container. Allow "readonly" as alias to "ro" in mount options. buildah, bud: support --jobs=N option for parallel execution. The Skopeo tool has been updated to version 1.2.1. Notable enhancements include: Changes: Add multi-arch builds for upstream and stable skopeo image via Travis. Added support for digests in sync. Added --all sync flag to emulate copy --all. Added --format option to skopeo inspect command. The Uidica tool has been updated to version 0.2.3. Notable enhancements include: Changes: Enable container port, not the host port. Add --version option. The CRUI tool has been updated to version 3.15. Notable enhancements include: Changes: Initial cgroup2 support. Legalized swrk API and add the ability for inheriting fds via it. External bind mounts and tasks-to-cgroups bindings. ibcriu.so (RPC wrapper) and plugins. (JIRA:RHELPLAN-55998) This part describes new features and major enhancements introduced in Red Hat Enterprise Linux 8.3. Anaconda has been rebased to version 33.16. With this release, Anaconda has been provided with the following notable enhancements over the previous version. The Installation Program now displays static IPv6 addresses on multiple lines and no longer resizes the windows. The Installation Program now correctly configures the host name on an installed system having IPv6 static configuration. You can now use non-ASCII characters in disk encryption passphrase. The Installation Program displays a proper recommendation to create a new file system on /boot, /tmp, and all /var and /usr mount points except /usr/local and /var/www. The Installation Program now correctly checks the keyboard layout and does not change the status of the Keyboard Layout screen when the keyboard keys (ALT+SHIFT) are used to switch between different layouts and languages. Rescue mode no longer fails on systems with existing RAID1 partitions. Changing of the LUKS version of the container is now available in the Manual Partitioning screen. The Installation Program successfully finishes the installation without the btrfs-progs package. The Installation Program no longer crashes when a Kickstart file places physical volumes (PVs) of a Logical volume group (VG) on an ignoredisk list. Introduces a new mount path /mnt/sysroot for system root. This path is used to mount / of the target system. Usually, the physical root and the system root are the same, so /mnt/sysroot is attached to the same file system as /mnt/sysimage. The only exceptions are rpm-ostree systems, where the system root changes based on the deployment. Then, /mnt/sysroot is attached to a subdirectory of /mnt/sysimage. It is recommended to use /mnt/sysroot for chroot. (BZ#1691319, BZ#1679893, BZ#1684045, BZ#1688478, BZ#1720145, BZ#1723888, BZ#1755996, BZ#1784360, BZ#1796310, BZ#1871680) GUI changes in RHEL Installation Program The RHEL Installation Program now includes the following user settings on the Installation Summary window: Root password User creation With this change, you can now configure a root password and create a user account before you begin the installation. Previously, you configured a root password and created a user account after you began the installation process. A root password is used to log in from a command line; if you install a graphical environment, then your graphical login manager uses the full name. For more details, see Performing a standard RHEL installation document. (JIRA:RHELPLAN-40469) Image Builder backend osbuild-composer replaces lorax-composer. The osbuild-composer backend replaces lorax-composer. The new service provides REST APIs for image building. As a result, users can benefit from a more reliable backend and more predictable output images. (BZ#1836211) Image Builder osbuild-composer supports a set of image types. With the osbuild-composer backend replacement, the following set of image types supported in osbuild-composer this time: TAR Archive (.tar) QEMU QCOW2 (.qcow2) VMware Virtual Machine Disk (.vmdk) Amazon Machine Image (.ami) Azure Disk Image (.vhdx) OpenStack Image (.qcow2) The following outputs are not supported this time: ext4-filesystem partitioned-disk. Alibaba Cloud Google GCE (JIRA:RHELPLAN-42617) Image Builder now supports push to clouds through GUI. With this enhancement, when creating images, users can choose the option of pushing to Azure and AWS service clouds through GUI. As a result, users can benefit from easier uploads and instantiation. (JIRA:RHELPLAN-30878) Introducing RHEL for Edge images With this release, you can now create customized RHEL images for Edge servers. You can use Image Builder to create RHEL for Edge images, and then use RHEL installer to deploy them on AMD and Intel 64-bit systems. Image Builder generates a RHEL for Edge image as rhel-edge-commit in a .tar file. A RHEL for Edge image is an rpm-ostree image that includes system packages for remotely installing RHEL on Edge servers. The system packages include: Base OS package Podman as the container engine. You can customize the image to configure the OS content as per your requirements, and can deploy them on physical and virtual machines. With a RHEL for Edge image, you can achieve the following: Atomic upgrades, where the state of each update is known and no changes are seen until you reboot the device. Custom health checks using Greenboot and intelligent rollbacks for resiliency in case of failed upgrades. Container-focused workflows, where you can separate core OS updates from the application updates, and test and deploy different versions of applications. Optimized OTA payloads for low-bandwidth environments. Custom health checks using Greenboot to ensure resiliency. For more information about composing, installing, and managing RHEL for Edge images, see Composing, Installing, and Managing RHEL for Edge images. (JIRA:RHELPLAN-56676) The default value for the best dnf configuration option has been changed from True to False. With this update, the value for the best dnf configuration option has been set to True in the default configuration file to retain the original dnf behavior. As a result, for users that use the default configuration file, the behavior remains unchanged. If you provide your own configuration files, make sure that the best=True option is present to retain the original behavior. (BZ#1832869) New --norefpath option for the dnf reposync command is now available. Previously, the reposync command created a subdirectory under the --download-path directory for each downloaded repository by default. With this update, the --norefpath option has been introduced, and reposync does not create the subdirectory. As a result, the repository is downloaded directly into the directory specified by --download-path. This option is also present in the YUM v3. (BZ#1842285) Ability to enable and disable the libdnf plugins. Previously, subscription checking was hardcoded into the RHEL version of the libdnf plug-ins. With this update, the microdnf utility can enable and disable the libdnf plug-ins, and subscription checking can now be disabled the same way as in DNF. To disable subscription checking, use the --disableplugin=subscription-manager command. To disable all plug-ins, use the --noplugins command. (BZ#1781126) ReaR updates RHEL 8.3 introduces a number of updates to the Relax-and-Recover (ReaR) utility. Notable changes include: Support for the third-party Rubrik Cloud Data Management (CDM) as external backup software has been added. To use it, set the BACKUP option in the configuration file to CDM. Creation of a rescue image with a file larger than 4 GB on the IBM POWER, little endian architecture has been enabled. Disk layout created by ReaR no longer includes entries for Rancher 2 Longhorn iSCSI devices and file systems. (BZ#1743303) smartmontools rebased to version 7.1. The smartmontools package has been upgraded to version 7.1, which provides multiple bug fixes and enhancements. Notable changes include: HDD, SSD and USB additions to the drive database. New options -j and -json to enable JSON output mode. Workaround for the incomplete Log subpages response from some SAS SSDs. Improved handling of READ CAPACITY command. Various improvements for the decoding of the log pages. (BZ#1671154) opencryptoki rebased to version 3.14.0. The opencryptoki packages have been upgraded to version 3.14.0, which provides multiple bug fixes and enhancements. Notable changes include: EP11 cryptographic service enhancements. Dilithium support Edwards-curve digital signature algorithm (EdDSA) support. Support of Rivest-Shamir-Adleman optimal asymmetric encryption padding (RSA-OAEP) with non-SHA1 hash and mask generation function (MGF). Enhanced process and thread locking. Enhanced btree and object locking. Support for new IBM Z hardware z15. Support of multiple token instances for trusted platform module (TPM). IBM cryptographic architecture (ICA) and integrated cryptographic service facility (ICSF). Added a new tool p11sak, which lists the token keys in an openCryptoki token repository. Added a utility to migrate a token repository to FIPS compliant encryption. Fixed pkcs11_migrate tool. Minor fixes of the ICSF software. (BZ#1780293) gpgme rebased to version 1.13.1. The gpgme packages have been upgraded to upstream version 1.13.1. Notable changes include: New context flags no-symkey-cache (has an effect when used with GnuPG 2.2.7 or later), request-origin (has an effect when used with GnuPG 2.2.6 or later), auto-key-locate, and a trust-model that have been introduced. New tool gpgme-json as native messaging server for web browsers has been added. As of now, the public key encryption and decryption is supported. New encryption API to support direct key specification including hidden recipients option and taking keys from a file has been introduced. This also allows the use of a subkey. (BZ#1829822) powertop rebased to version 2.12. The powertop packages have been upgraded to version 2.12. Notable changes over the previously available version 2.11 include: Use of Device Interface Power Management (DIPM) for SATA link PM. Support for Intel Comet Lake mobile and desktop systems, the Skylake server, and the Atom-based Tremont architecture (Jasper Lake). (BZ#1783110) tuned rebased to version 2.14.0. The tuned packages have been upgraded to upstream version 2.14.0. Notable enhancements include: The optimize-serial-console profile has been introduced. Support for a post loaded profile has been added. The irqbalance plugin for handling irqbalance settings has been added. Architecture specific tuning for Marvell ThunderX and AMD based platforms has been added. Scheduler plugin has been extended to support cgroups-v1 for CPU affinity setting. (BZ#1792264) tcpdump rebased to version 4.9.3. The tcpdump utility has been updated to version 4.9.3 to fix Common Vulnerabilities and Exposures (CVE). (BZ#1804063) libpcap rebased to version 1.9.1. The libpcap packages have been updated to version 1.9.1 to fix Common Vulnerabilities and Exposures (CVE). (BZ#1806422) iperf3 now supports sctp option on the client side. With this enhancement, the user can use Stream Control Transmission Protocol (SCTP) instead of Transmission Control Protocol (TCP) on the client side of testing network throughput. The following options for iperf3 are now available on the client side of testing: --sctp --xbind --nstreams. To obtain more information, see Client Specific Options in the iperf3 man page. (BZ#1665142) iperf3 now supports SSL. With this enhancement, the user can use RSA authentication between the client and the server only to legitimate clients. The following options for iperf3 are now available on the client side of communication: --username --rsa-public-key-path --authorized-users-path. The following options for iperf3 are now available on the client side of communication: --username --rsa-public-key-path --authorized-users-path. (BZ#1700497) bind rebased to 9.11.20. The bind package has been upgraded to version 9.11.20, which provides multiple bug fixes and enhancements. Notable changes include: Increased reliability on systems with many CPU cores by fixing several race conditions. Detailed error reporting: dig and other tools can now print the Extended DNS.

available. In some scenarios, kernel drivers can send large amounts of I/O operations to the serial console. Such behavior can cause temporary unresponsiveness while the I/O is written to the serial console. The optimize-serial-console profile reduces this I/O by lowering the printk value from the default of 7 to 4 to 1 to 7. Users with a serial console who wish to make this change on their system can instrument their system as follows: # tuned-adm profile throughput-performance optimize-serial-console As a result, users will have a lower printk value that persists across a reboot, which reduces the likelihood of system hangs. This Tuned profile reduces the amount of I/O written to the serial console by removing debugging information. If you need to collect this debugging information, you should ensure this profile is not enabled and that your printk value is set to 7 to 4 to 7. To check the value of printk run: # cat /proc/systune/printk (BZ#1840689) New Tuned profiles added for the AMD-based platforms. There is no need to change any parameter manually and the tuning is automatically applied on the AMD system. The AMD Epyc Naples and Rome systems alters the following parameters in the default throughput-performance profile: schd_mig_cost_ns=500000 and kernel.numa_balancing=0 With this enhancement, the system performance is improved by ~5%. (BZ#1746957) memcached rebased to version 1.5.22 The memcached packages have been upgraded to version 1.5.22. Notable changes over the previous version include: TLS has been enabled. The -o inline_asic response option has been removed. The -Y [afile] option has been added along with authentication mode for the SASL/GSSAPI and SASL/GSS-SPNEGO plug-ins. As a result, when used in the libopenpam libraries, this feature enables Cyrus SASL to maintain compatibility with and access to Microsoft Active Directory and Microsoft Windows systems which are introducing mandatory channel binding or LDAP connections. (BZ#1813504) LibreSSL rebased to 3.3.2 With this update, LibreSSL includes several new features and bug fixes. Notable features include: LibreSSL no longer requires separate FIPS 140-2 certification. LibreSSL now implements the cryptographic recommendations of NIST SP 800-56A, and changes the preference from SHA-1 and RSA-PKCS v1.5 to SHA-2 and RSA-PSS. LibreSSL supports XFRMI virtual ipsecxx interfaces and simplifies writing firewall rules. Recovered and rebooted nodes in a full-mesh encryption network is improved. (BZ#1820266) The libssh library, which implements the SSH protocol, has been rebased to version 0.9.4. This update includes bug fixes and enhancements, including: Added support for libssh2-0.9.4. Added support for dffie-hellman-group1-sha256 key exchange algorithm. Added support for the libssh2-0.9.4 host keys file. Added support for OpenSSH host keys file. Many known and documented security vulnerabilities have been fixed and removed. Fixed CVE-2019-16881 (BZ#1820267) Added support for correctly calculating direct mode for the libssh2-0.9.4 host keys file. Added support for OpenSSH host keys file. Many known and documented security vulnerabilities have been fixed and removed. Fixed the libssh2 server configuration inclusion from the libssh2 server configuration. (BZ#1840797) gnutls rebased to 3.6.14 The gnutls packages have been rebased to upstream version 3.6.14. This version provides many bug fixes and enhancements. Most notably, gnutls now rejects certificates with time fields that contain invalid characters or formatting. gnutls now checks trusted CA certificates for minimum key sizes. When displaying an encrypted private key, the certtool utility no longer includes its plain text description. Servers using gnutls now advertise OCSP-stamping support. Clients using gnutls now send OCSP staples only on request. (BZ#1789392) gnutls FIPS DH checks now conform with NIST SP 800-56A, rev. 3 This update of the gnutls packages provides checks required by NIST Special Publication 800-56A, Revision 3, sections 5.7.1.1 and 5.7.1.2, step 2. The change is necessary for future FIPS 140-2 certifications. As a result, gnutls now accept only 2048-bit or larger parameters from RFC 7919 and RFC 3526 during the Diffie-Hellman key exchange when operating in FIPS mode. (BZ#1849078) gnutls now performs validation checks according to NIST SP 800-56A, rev. 3 This update of the gnutls packages adds checks required by NIST Special Publication 800-56A, Revision 3, sections 5.6.2.3.2 and 5.6.3.1.3, step 2. The addition prepares gnutls for FIPS 140-2 certifications. As a result, gnutls performs additional validation steps for generated and received public keys during the Diffie-Hellman key exchange when operating in FIPS mode. (BZ#1858903) update-crypto-policies and fips-mode-setup moved into crypto-policies Scripts The update-crypto-policies and fips-mode-setup scripts, which were previously included in the crypto-policies package, are now moved into a separate RPM subpackage crypto-policies-scripts. The package is automatically installed through the Recommends dependency on regular installations. This enables the libtui/abi-minimal image to avoid the inclusion of the Python language interpreter and thus reduces the image size. (BZ#1832743) OpenSC rebased to version 0.20.0 The openSC package has been rebased to version 0.20.0 which addresses multiple bugs and security issues. Notable changes include: With this update, CVE-2019-15946, CVE-2019-15945, CVE-2019-19480, CVE-2019-19481 and CVE-2019-19479 security issues are fixed. 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