Apache Ranger 2.2.0 - Release Notes

New Features

• [RANGER-2640] - Implement SHOW ROLE GRANT in Hive ranger plugin
• [RANGER-3001] - Audit-filter feature implementation to help reduce volume of audit logs generated
• [RANGER-3191] - Ranger UI for configuring Audit filters
• [RANGER-3241] - Need feature to make the access log file name configurable
• [RANGER-3242] - Need feature to make the access log file name configurable for user
• [RANGER-3248] - In Ranger Audit collection number of shards should be depending on the number of infra-solr nodes
• [RANGER-3249] - Enhance RangerScriptExecutionContext class to provide APIs for comprehensive tag information
• [RANGER-3337] - Update ACL computation to (optionally) expand Ranger Roles to users and groups and include chained-plugins in ACL computation

Improvements

• [RANGER-2767] - Ranger showing only 100 services in ranger admin ui
• [RANGER-2910] - Add kerberos and SSL support for client libraries
• [RANGER-2837] - Refresh Ranger's Solr configs
• [RANGER-2946] - Ranger UI - third party library version upgrades
• [RANGER-2950] - Upgrade Spring framework and Spring Security libraries
• [RANGER-2972] - REST api to delete service/ repo using cluster name
• [RANGER-2983] - Add HBase users with decrypt/peek permission in default policy for kms
• [RANGER-2985] - Performance improvements for Ranger usersync
• [RANGER-2995] - Add 'exclude service users' option in URL param
• [RANGER-2996] - Add search by Roles and Auditor user should be able to see "Roles" tab
• [RANGER-2998] - API for Ranger KMS service status
• [RANGER-3001] - Update Ranger KafkaClient to use Kafka AdminClient API instead of Zookeeper
• [RANGER-3002] - Query info popup stuck in Ranger access audits view
• [RANGER-3006] - Add cluster name field to service create form
• [RANGER-3008] - Internal API for controlling Trie behavior
• [RANGER-3011] - Code improvement for Audit Access Log Detail popup
• [RANGER-3012] - Dockerfile to support building from local repository
• [RANGER-3013] - Remove minor version of "jni" jar file
• [RANGER-3017] - RangerHiveAuthorizer should authorize URL in Hive tempUDFs operation
• [RANGER-3020] - Normalize naming and processing of config parameters for chained plugin
• [RANGER-3024] - Improve response time and refactor code for GET API /service/xusers/lookup/users
• [RANGER-3027] - Improve response time for GET API service/xusers/users
• [RANGER-3029] - Ranger - Upgrade handlebars 1.3.0 to 4.6.0
• [RANGER-3044] - User is not able to change the password from user profile page
• [RANGER-3050] - Password can not be changed in User Profile page
• [RANGER-3056] - Show Audit ID in Audit->Access tab
• [RANGER-3057] - Support Audit search based on Audit ID
• [RANGER-3065] - RangerServiceResource model object needs to be enhanced to store/track any additional information about the resource
• [RANGER-3067] - Schema changes to improve performance of chained-plugin feature
• [RANGER-3076] - [New UI] If service side bar expanded then include/exclude toggle button in hive policy gets shrink
• [RANGER-3078] - Supporting import policy based on PolicyName, ServiceName and ZoneName
• [RANGER-3087] - Making db_setup.py fool-proof and robust
• [RANGER-3091] - Upgrade solr version in Ranger to Solr 8.6.3
• [RANGER-3096] - Upgrade to Kafka 2.5 with kafka_2.12 artifact in Ranger
• [RANGER-3103] - Ranger KMS should log full UGI principal
• [RANGER-3105] - Upgrade Ranger Tomcat to 8.5
• [RANGER-3109] - Ranger Access audit improvements
• [RANGER-3118] - Upgrade jackson to 2.11.3
• [RANGER-3119] - Upgrade to slf4j 1.7.30
• [RANGER-3120] - [ Ranger Latest UI] Long tag based service names are not shown correctly
• [RANGER-3122] - Support delegate-admin for specific permissions
• [RANGER-3130] - [ Ranger Admin UI] Improvement in Ranger Latest UI’s Edit Policy Page
• [RANGER-3131] - Remove some warnings in Maven build output
• [RANGER-3147] - enhance resource-tree to enable finding evaluators for a given resource and its children
• [RANGER-3153] - Upgrade to TLS to version 1.2 and above
• [RANGER-3157] - Improvements for audit details page part-2
• [RANGER-3168] - User/Auditor should have read-only access for Servicedef via PublicAPIsv2 API
• [RANGER-3185] - Docker setup to run Ranger enabled HiveServer2
• [RANGER-3186] - [ Ranger Access Audit Improvement] Changes done from one user, persists for other users as well.
• [RANGER-3192] - Use read-write locks for managing access to policy-engine and tag-repository
• [RANGER-3193] - Docker setup to cache archives to avoid repeated downloads
• [RANGER-3200] - Ranger KMS - Upgrade api-i18n jar from 1.0.0-M20 to 1.0.2+
• [RANGER-3201] - Ranger KMS - Upgrade api-i18n jar from 1.0.0-M20 to 1.0.2+
• [RANGER-3202] - Ranger KMS - Upgrade api-i18n jar from 1.0.0-M20 to 1.0.2+
• [RANGER-3206] - Enhance db_setup.py to allow reading env variables set in ranger-admin-env scripts
• [RANGER-3207] - Graceful handling of invalid usernames for usersync
• [RANGER-3209] - Upgrade netty-all.version 4.1.49.Final to 4.1.60.Final
• [RANGER-3210] - Upgrade Tomcat to 8.5.63+
• [RANGER-3212] - Java client: Support for SSL, kerberos and packaging
• **RANGER-3213** - Ranger - Upgrade to velocity 2.3
• **RANGER-3214** - Configure default audit filters when ranger repo is created
• **RANGER-3223** - Documentation of Ranger Java Client
• **RANGER-3227** - Get Exception when visit result of RangerClient.findRoles()
• **RANGER-3228** - Improvement in audit filter feature
• **RANGER-3239** - Ranger : Add checkbox for default audit filters on Service Creation page
• **RANGER-3240** - Show Latest Response from Server on all pages of Ranger UI
• **RANGER-3246** - Upgrade netty-all version to 4.1.61.Final +
• **RANGER-3247** - [UI-improvement] Ranger admin audit log does not show service/repo name in the policy operation
• **RANGER-3250** - Add relevant indexes to database table to speed up ingress processing of tagged entities
• **RANGER-3251** - [Ranger Audit Filters] UI Tag, KMS service not showing the audit filters in UI section
• **RANGER-3252** - Cannot search by object name in page /reports/audit/admin
• **RANGER-3253** - Make incremental policy change computation more resilient
• **RANGER-3254** - sync source changes when same group is present in different sync source
• **RANGER-3284** - Simplify processing of tasks scheduled to execute after current transaction is completed
• **RANGER-3285** - expose user source details in ranger UI
• **RANGER-3287** - Improve Tagsync authentication error reporting
• **RANGER-3293** - Show user source details on user tab in ranger UI.
• **RANGER-3295** - Update Ranger Policy Engine capability matrix
• **RANGER-3305** - Service version update improvements
• **RANGER-3306** - Allow comma in policy resource text field.
• **RANGER-3308** - Create python script to test stability of policy CRUD
• **RANGER-3309** - Support batch upload of tags to Ranger
• **RANGER-3324** - Make optimised db schema script idempotent for all DB Flavors.
• **RANGER-3328** - RANGER-KMS : code improvement
• **RANGER-3334** - Enhance Ranger admin REST Client to use cookie for policy, tag and role download
• **RANGER-3339** - Make Ranger Sear audit collection storage configurable
• **RANGER-3347** - Add default policy for hbase user in hdfs services
• **RANGER-3349** - Handling multiple grant role command for same user
• **RANGER-3357** - Ranger HivePlugin Authorization for a new Hive operation
• **RANGER-3358** - Ranger - Upgrade Tomcat to 8.5.69
• **RANGER-3360** - Best Practice: Use updated policy object after pruning the policy object
• **RANGER-3361** - Ranger Admin : Improve error message while deleting users and groups associated with role.
• **RANGER-3362** - UI Improvements
• **RANGER-3363** - Support Session Inactivity Timeout for Ranger
• **RANGER-3371** - Update algorithm to build Ranger policy-database object from Ranger policy-view object
• **RANGER-3374** - Syncing 300K+ user group mappings to ranger is causing ranger to go out of memory
• **RANGER-3376** - Add policy_guid column in x_policy_change_log table
• **RANGER-3381** - Upgrade to junit 4.13.1
• **RANGER-3384** - Metric Get API add input validation
• **RANGER-3388** - Session Inactivity Timeout: Ranger UI part
• **RANGER-3396** - RangerPolicyItemRowFilterInfo::toString() method shows "RangerPolicyItemDataMaskInfo" as class name
• **RANGER-3447** - Ranger startup optimization: reduce number of DB queries to read service-defs

**Bugs**

• **RANGER-2940** - Added code to update user roles when group memberships are changed with AD/LDAP incremental sync
• **RANGER-2981** - Unwanted popup display on Security Zone Tab
• **RANGER-2985** - User with all permission in ranger is not able to update volume
• **RANGER-2987** - Remove unused ratio jars in ranger admin packaging for ozone plugin
• **RANGER-2988** - Role Name Search filter is not available on policy listing page
• **RANGER-2991** - Ranger should close solrclient connection
• **RANGER-2997** - Ranger usersync role assignment issues
• **RANGER-3002** - Query info popup stuck in Ranger access audits view
• **RANGER-3007** - Ozone & Ranger Upgrade: Not able to access volume after Upgrade
• **RANGER-3014** - Revert RANGER-2789 GET API service/xusers/users turns very slow when there are more than 1000 users
• **RANGER-3021** - RangerRole Version update is not in correct format in an upgraded cluster
• **RANGER-3034** - Remove cached policies in plugin if the service is deleted in Ranger admin
• **RANGER-3037** - Import policy API is not returning proper response in case pre authorization fails
• **RANGER-3038** - Group membershpi not getting updated to ranger
• **RANGER-3058** - create table fails when ViewDFS(client side HDFS mounting fs) mount points are targeting to Ozone/S3 FS
• **RANGER-3060** - Maven build failing due to PMD violations
• **RANGER-3061** - Default configuration error when enable ssl for ranger admin
• **RANGER-3062** - Even after removing 'Security Zone' permission for an user, UI still shows 'Security Zone' tab
• **RANGER-3064** - Make policy API consistent with the UI behavior for keadmin role
• **RANGER-3068** - Ranger Usersync is not handling error during initialization process
• **RANGER-3070** - Add Support for using [OWNER] placeholder in Ozone Ranger Plugin
• **RANGER-3071** - Supporting character set which is not included in latin1
• **RANGER-3073** - Incorrect UI hint message for password validation in FIPS environment
• **RANGER-3074** - Fix build issues
• **RANGER-3079** - Fix build failures for ranger-2.2 branch
• **RANGER-3083** - denyAllElse policy does not handle access request with access-type of '_any'
• **RANGER-3084** - Ranger database connection fails when postgres is SSL enabled & postgresql-42.2.14 driver jar is used
• **RANGER-3088** - Build tagged-resource-cache using memory optimization flags identical to policy-cache
• **RANGER-3090** - KMS setup.sh fails due to blank property value of ranger.keystore.ssl.certificateFile
• **RANGER-3093** - Add required libraries to ranger-tools to ensure that perftester scripts run correctly
- RANGER-3355: Ranger HDFS audit not capturing the correct path for write rename operations
- RANGER-3345: not able to list the keys with a user whose id contains non latin character
- RANGER-3308: Updates to validity period of tag are not reflected in Ranger database
- RANGER-3311: Ranger usersync not recovering from initial errors in subsequent syncs
- RANGER-3310: Ranger Hive policy with nested Roles failed to authorize request
- RANGER-3313: Optimize memory requirements for storing Tag/Policy/Zone trie - Trade-off processing time for memory
- RANGER-3312: Ranger usersync unit test cases are failing on mac
- RANGER-3317: Need feature to capture URL of a particular instance of audit event
- RANGER-3321: HBase list command authorization issue in Ranger
- RANGER-3324: Search filter with user name having non latin character is not working on Audit->Access tab
- RANGER-3329: Python client uses incorrect default value assignment for method parameters
- RANGER-3334: Remove global JAAS Configuration for Ranger authenticating to SOLR
- RANGER-3340: Ranger ShutdownHook hook to be called in RangerHBaseCoprocessor preShutdown apis for a clean shutdown of HBase
- RANGER-3343: Ranger usersync, user group mapping for user deletion is not syncing up, if only one user is present in the group
- RANGER-3349: Adding existing policy check for PatchForKafkaServiceDefUpdate_J10033
- RANGER-3356: RangerResourceTrie.add() and RangerResourceTrie.delete() do not work correctly for the resources containing wildcards
- RANGER-3359: Having any permission on hbase tables should allow listing of tables
- RANGER-3363: Ranger Database deadlock when Service creation and user sync are running parallel
- RANGER-3369: Ranger Usersync config for keystore type and truststore type for LDAPS are not effective
- RANGER-3371: Ranger ui became broken after logout in Firefox
- RANGER-3372: Patch to migrate old policy to use new Policy Ref Table
- RANGER-3375: Add back the support to provide option to retrieve users from group member attribute
- RANGER-3378: Fix spurious full policy/tag downloads when incremental policy/tag updates are enabled
- RANGER-3380: Roles download failed in Ranger after upgrade
- RANGER-3390: Skip python unit tests if requests library not present
- RANGER-3394: Ranger Access Audits page not loading
- RANGER-3399: Illegal reflective access operation warning in KMS catalina.out logs
- RANGER-3403: Add back the support to provide option to retrieve groups from user memberof attribute
- RANGER-3405: Policy item not render in report page
- RANGER-3407: Graceful handling of invalid usernames for usersync
- RANGER-3408: NPE in Ranger policy engine when processing SELF_OR_CHILD scoped search
- RANGER-3418: User getting denied even after having tag based policy
- RANGER-3420: Zone name is not getting populated for tag based policy.
- RANGER-3424: Not able to delete security-zone
- RANGER-3429: Correct Kafka default policy item for all-delegation token and rangerlookup user
- RANGER-3433: Ranger Kafka Plugin changes to get the UGI from Kafka client JAAS config instead of Subject from Kafka LoginManager
- RANGER-3434: Ranger db patch no 045 is failing for oracle db.
- RANGER-3435: Remove hive-exec dependency from Ranger audit framework
- RANGER-3438: Incorrect response for 'ranger_metric denyconditions' in Collect Diagnostic Data
- RANGER-3432: Inconsistent behavior in Ranger Role authorization with in same hive beeline session
- RANGER-3459: [Ranger Audit Filter] Ranger role is allowed to delete, even if its used in audit filters
- RANGER-3460: Update default hdfs audit filters to filter out unwanted audits
- RANGER-3461: Remove unused .haccess file from component
- RANGER-3462: Ranger group memberships are not working for LDAP sync
- RANGER-3463: libthrift 0.14.x exclude tomcat-embed-core from dependency
- RANGER-3464: [Solr Ranger Plugin] Add support/Fix Test connection with Solr service
- RANGER-3466: Solr inter-node communication not working after enabling Ranger
- RANGER-3468: Ranger Audit filter should filter audits that are created by Hive Role command operations
- RANGER-3470: Zone tag policies are getting deleted when zone is updated
- RANGER-3475: Need to update solr-config.xml in the ranger-audits collection config-set
- RANGER-3477: Number of users/groups marked for delete are not shown in logs
- RANGER-3480: Ensure that the policy/tag versions gets correctly updated for every change to service/policy/tag
- RANGER-3486: Oracle upgrade fails with oracle: SQLExceptionException in 052-add-unique-constraint-on-change-logs
- RANGER-3488: Ranger Audit Filters doesn't filter hdfs read operation when filter is set to not audit read
- RANGER-3489: NPE in BasePlugin if the first policy download contains no policies and no policy-deltas
- RANGER-3492: Fix ConcurrentModificationException from RangerTransactionSynchronizationAdapter
- RANGER-3494: AccessResult attribute with isAudited as false not filtered in Ranger Audit Filter
- RANGER-3497: Internal user is not marked as external after the user sync source details are changed
- RANGER-3501: [UI] in admin audit log tables not formatted correctly for long string value for resources.
- RANGER-3504: Create solr audit conf zip archive
- RANGER-3511: Ranger Usersync not retreiving failed updates for unix or file sync source
- RANGER-3512: Role is getting removed from policy when user present in that policy is deleted
- RANGER-3520: ranger tags are not added for when tagging identically named database/table in two different Ranger services
- RANGER-3522: remove grant of public synonym privileges for oracle db
- RANGER-3523: Ranger Hive Table lookup is not working
- RANGER-3525: Roles information not present in the Excel and CSV files which are downloaded from Reports page
- RANGER-3533: Ozone Ranger Audits are not showing up in Ranger Admin UI for "om" service user
- RANGER-3536: All policies are exported, when searching reports using roles
- RANGER-3537: Ranger policy not taking effect with HDFS Snapshots
- RANGER-3538: masking and Role filter policy are getting exported from report page when Policy type=Access
- RANGER-3541: Incorrect hive query displayed for grant and revoke role command
- RANGER-3553: Show roles is not listing all roles
- RANGER-3555: Ranger Admin : Update the current logging mechanism to use custom log4j conf
- RANGER-3566: Cluster type is missed in copy constructor of RangerAccessRequestimpl
- RANGER-3367 - Intermittent Ranger Admin perf logs are not getting logged after Spring Security upgrade
- RANGER-3372 - Issue in policies search on report page with user having more than one unix group
- RANGER-3385 - Duplicate SQL prefix should not be allowed
- RANGER-3387 - Ranger Admin Header Validation
- RANGER-3396 - Duplicate JAVA patch suffix should not be allowed
- RANGER-3404 - User with no permissions can access and edit delegate admin only policies
- RANGER-3419 - compressDeltas method returns two ranger policy entries for policy create+update case when provided lastKnownVersion is previous to create call
- RANGER-3441 - PropertiesUtil (Admin) logging potentially sensitive data
- RANGER-3448 - log4j initialization failure in docker setup
- RANGER-3455 - [Logout-Ranger] Should either be disabled/ should redirect to knox logout page
- RANGER-3462 - User with delegated admin permission on a resource cannot fetch policy for the resource
- RANGER-3480 - Policy version in access audit is not matching with the policy version seen in policy view
- RANGER-3481 - Incremental policy updates do not work correctly for multiple security zones
- RANGER-3489 - Add htrace-core.jar as dependency for various Ranger Plugins