Apache Ranger 2.2.0 - Release Notes

New Features

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

Improvements

- Ranger showing only 100 services in ranger admin ui
- Add kerberos and SSL support for client libraries
- Refresh Ranger's Solr configs
- Ranger UI - third party library version upgrades
- Upgrade Spring framework and Spring Security libraries
- REST api to delete service/ repo using cluster name
- Add HBase users with decrypteek permission in default policy for kms
- Performance improvements for Ranger usersync
- Add 'exclude service users' option in URL param
- Add search by Roles and Auditor user should be able to see "Roles" tab
- API for Ranger KMS service status
- Update Ranger KafkaClient to use Kafka AdminClient API instead of Zookeeper
- Query info popup stuck in Ranger access audits view
- Add cluster name field to service create form
- Internal API for controlling Trie behavior
- Code improvement for Audit Access Log Detail popup
- Dockerfile to support building from local repository
- Remove minor version of "jna" jar file
- RangerHiveAuthorizer should authorize URL in Hive tempUDFs operation
- Normalize naming and processing of config parameters for chained plugin
- Improve response time and refactor code for GET API /service/xusers/lookup/users
- Improve response time for GET API service/xusers/users
- Ranger - Upgrade handlebars 1.3.0 to 4.6.0
- User is not able to change the password from user profile page
- Password can not be changed in User Profile page
- Show Audit ID in Audit->Access tab
- Support Audit search based on Audit ID
- RangerServiceResource model object needs to be enhanced to store/track any additional information about the resource
- Schema changes to improve performance of chained-plugin feature
- [New UI] if service side bar expanded then include/exclude toggle button in hive policy gets shrink
- Supporting import policy based on PolicyName, ServiceName and ZoneName
- Making db_setup.py fool-proof and robust
- Upgrade solr version in Ranger to Solr 8.6.3
- Upgrade to Kafka 2.5 with kafka_2.12 artifact in Ranger
- Ranger KMS should log full UGI principal
- Upgrade Ranger Tomcat to 8.5
- Ranger Access audit improvements
- Upgrade jackson to 2.11.3
- Upgrade to slf4j 1.7.30
- [Ranger Latest UI] Long tag based service names are not shown correctly
- Support delegate-admin for specific permissions
- [Ranger Admin UI] Improvement in Ranger Latest UI's Edit Policy Page
- Remove some warnings in Maven build output
- enhance resource-tree to enable finding evaluators for a given resource and its children
- Upgrade to TLS version 1.2 and above
- Improvements for audit details page part-2
- User/Auditor should have read-only access for Servicedef via PublicAPIsv2 API
- Docker setup to run Ranger enabled HiveServer2
- [Ranger Access Audit Improvement]Changes done from one user, persists for other users as well.
- Use read-write locks for managing access to policy-engine and tag-repository
- Docker setup to cache archives to avoid repeated downloads
- Ranger KMS - Upgrade api-i18n jar from 1.0.0-M20 to 1.0.2+
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- Enhance db_setup.py to allow reading env variables set in ranger-admin-env scripts
- Graceful handling of invalid usernames for usersync
- Upgrade netty-all.version 4.1.49.Final to 4.1.60.Final
- Upgrade Tomcat to 8.5.63+
- 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-3308] - 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-3333] - Enhance Ranger admin REST Client to use cookie for policy, tag and role download
• [RANGER-3343] - Make Ranger Sort 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 ratis 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 memberships 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 keyadmin 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-3089] - Build UI tagsync-source-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 usersync unit test cases are failing on macOS.
- Ranger Hive policy with nested Roles failed to authorize request.
- Ranger HDFS audit not capturing the correct path for write rename operations.
- Ranger usersync not recovering from initial errors in subsequent syncs.
- Ranger policy not taking effect with HDFS Snapshots.
- Ranger Usersync config for keystore type and truststore type for LDAPS are not effective.
- Ranger ui became broken after logout in Firefox.
- Ranger usersync not recovering from initial errors in subsequent syncs.
- Ranger usersync unit test cases are failing on macOS.
- Ranger Audit Filters doesn’t filter hdfs read operation when filter is set to not audit read.
- All policies are exported, when searching reports using roles.
- Default Ranger policy for KMS should include "om" user for Ozone bucket level encryption to work.
- Updates to validity period of tag are not reflected in Ranger database.
- Ranger HDFS audit not capturing the correct path for write rename operations.
- Ranger Usersync unit test cases are failing on macOS.
- Ranger Audit Filters doesn’t filter hdfs read operation when filter is set to not audit read.
- All policies are exported, when searching reports using roles.
- Default Ranger policy for KMS should include "om" user for Ozone bucket level encryption to work.
• [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-3398] - 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