Apache Ranger 2.0.0 - Release Notes

Release Notes - Ranger - Version 2.0.0

New Feature

- [RANGER-2049] - Support doAs in Ranger Admin Portal / REST API
- [RANGER-2170] - Ranger supports plugin to enable, monitor and manage Elasticsearch
- [RANGER-2209] - Service Definition for ABFS to support Ranger Authorization
- [RANGER-2232] - Security Zones feature in Apache Ranger
- [RANGER-2281] - Support Trusted Proxy in ranger
- [RANGER-2325] - Implement ranger plugin for Ozone
- [RANGER-2331] - Ranger-KMS - KeySecure HSM Integration
- [RANGER-2354] - Add custom condition at policy level
- [RANGER-2414] - Enhancements to support roles in Ranger policies
- [RANGER-2425] - Enhance ranger hive plugin to support sql role commands
- [RANGER-2443] - Ranger UI support for access via Knox Trusted Proxy

Improvement

- [RANGER-1715] - Enhance Ranger Hive Plugin to support authorization on Hive replication Tasks
- [RANGER-1851] - Enhance Ranger Hive Plugin to support authorization for KILL QUERY command
- [RANGER-1933] - Upgrade Ranger to support Apache Hadoop 3.0.0
- [RANGER-1958] - [HBase] Implement getUserPermissions API of AccessControlService.Interface to allow clients to access HBase permissions stored in Ranger
- [RANGER-1978] - Upgrade Jackson Databind to 2.8.11
- [RANGER-2093] - RangerHiveAuthorizer showPrivileges should show Hive Objects ACLs from Ranger
- [RANGER-2140] - Upgrade spring and guava libraries
- [RANGER-2148] - Update Ranger Hive dependency version to 3.0
- [RANGER-2151] - Update Ranger Hbase dependency version to 2.0
- [RANGER-2153] - Supply the function of reverting policy history version.
- [RANGER-2157] - Add NiFi Registry service definition and NiFiRegistryClient
- [RANGER-2158] - Performance improvement to REST API call to update policies
- [RANGER-2161] - Improvement in policy screen permission item's
- [RANGER-2162] - Upgrade c3p0 libraries
- [RANGER-2164] - Ranger to add default atlas policy for rangertagsync user.
- [RANGER-2167] - Upgrade to Apache parent pom version 20
- [RANGER-2168] - Add service admin user through service config
- [RANGER-2169] - Create unique index on service and name column of x_policy table
- [RANGER-2172] - Good coding practices for unix authentication Service in Ranger
- [RANGER-2173] - Optimize Trie construction and Policy lookup
- [RANGER-2177] - Handle validations for duplicate configuration item during service create/edit
- [RANGER-2181] - Code Improvement To Follow Best Practices
- [RANGER-2184] - Update RangerAtlas authorization to authorize add/update/remove of relationships
- [RANGER-2188] - Support multiple threads to build Trie and on-lookup/post-setup for Trie nodes
- [RANGER-2191] - Update ranger-tool with new options to control Trie
- [RANGER-2203] - Review and update database schema for ranger policies to minimize database queries/updates
- [RANGER-2207] - Allow resources to appear in column mask policies without being visible in access policies
- [RANGER-2208] - Code improvement to fetch User/Group information and Service Config details
- [RANGER-2210] - Ranger support for Apache Kafka 2.0.0
- [RANGER-2212] - Add multiple urls tips for the 'Kylin URL' configuration item when creating the kylin-plugin service
- [RANGER-2214] - Do some code improvement for the error message for KylinClient.java
- [RANGER-2216] - Ranger Audit UI lacks the feature to search the audits using Policy Id
- [RANGER-2218] - Service-Definition update should not allow updates to names of resources, access-types, conditions or data-masks
- [RANGER-2221] - Apache Ranger Kafka authorizer should support new resource "DelegationToken" in Apache Kafka 2.0.0 version
- [RANGER-2222] - Apache RangerKafkaPlugin support to handle Kafka Cluster as a new resource
- [RANGER-2231] - Upgrade to Knox 1.1.0
- [RANGER-2237] - Upgrade Kylin version to 2.5.0
- [RANGER-2239] - Update to surefire 2.21.0
- [RANGER-2243] - Provide option to ranger builds to specifically build a single plugin
- [RANGER-2251] - Need to provide options for making java heap size memory configurable in Ranger services
- [RANGER-2257] - Add policyID to error message when click the Access log of Audit
- [RANGER-2258] - Improve the policy list page to prompt users when the service is disabled
- [RANGER-2265] - To make the profile "all" to be active by default when ranger build
- [RANGER-2266] - To make Id to ID in Audit Pages of Ranger Admin
- [RANGER-2267] - Add a icon to differentiate the status of the service
- [RANGER-2268] - Optimize policy and tags migration to new schema
- [RANGER-2279] - Reduce the time spent changing passwords during Ranger Admin install
- [RANGER-2286] - Ranger install may be prevented by leftover DB entry
- [RANGER-2287] - Improve and optimize db_setup.py file code
- [RANGER-2291] - Make optimized db schema script idempotent for all DB Flavors
- [RANGER-2295] - Set specific Ranger version in patches status entry table
- [RANGER-2296] - Enhance Ranger Audit framework to have security zone in the audit
- [RANGER-2303] - Add kylin-plugin information to README.txt
- [RANGER-2309] - Improve group search on policy edit page.
- [RANGER-2314] - Do some code improvement for the error message in SqoopClient.java

- [RANGER-2354] - Add custom condition at policy level
- [RANGER-2414] - Enhancements to support roles in Ranger policies
- [RANGER-2425] - Enhance ranger hive plugin to support sql role commands
- [RANGER-2443] - Ranger UI support for access via Knox Trusted Proxy
• [RANGER-2345] - Enable compilation on JDK11
• [RANGER-2342] - Use "TLS" in SSLContext.getInstance
• [RANGER-2344] - Bootstrapping Solr in Ranger service start-up
• [RANGER-2340] - Ensure that policy/resource based searches are security-zone aware
• [RANGER-2336] - Update Grant/Revoke API access after Security zone feature
• [RANGER-2341] - Add Policy Version to the Ranger Audit log
• [RANGER-2346] - Support for incremental policy updates to improve performance of ranger-admin and plugins by optimal building of policy-engine
• [RANGER-2347] - Upgrade Apache Solr version to 7.7.0 or later
• [RANGER-2348] - Provide an API to download policies and tags
• [RANGER-2351] - Implement Import / Export of Policies by Zone
• [RANGER-2352] - Upgrade Apache Thrift Java client library to 0.12.0
• [RANGER-2353] - Improvement on getServices API
• [RANGER-2354] - Improvement to plugin status tab.
• [RANGER-2355] - Create / Update zone to have provision to associate Tag based service with zone
• [RANGER-2356] - Filter/exclude multiple users in audit search
• [RANGER-2357] - Ranger Custom PolicyCondition for TagsNotPresent and AnyTagPresent
• [RANGER-2358] - Improvement to Access Audit page-Add 'agentHostname' column to audit log table, which records IP-address/hostname of the plugin
• [RANGER-2359] - Improvement to Audit page -> Plugin status tab
• [RANGER-2360] - Code duplication due to RangerCredentialProvider.getCredentialString returns char[]
• [RANGER-2361] - add public api v2 for security zones
• [RANGER-2362] - Ranger Hive Plugin enhancement for KILL query and Replication commands authorization
• [RANGER-2363] - Ranger should add service admin privilege support for hive service objects - LLAP command sets
• [RANGER-2364] - Ranger authorization for ADD, COMPILE and CREATE TEMPORARY UDF operation in Hive
• [RANGER-2365] - Create / Update zone to have provision to associate Tag based service with zone
• [RANGER-2366] - Filter/exclude multiple users in audit search
• [RANGER-2367] - Add presto plugin
• [RANGER-2407] - [Best Practices] Update/Remove default header values sent from Ranger
• [RANGER-2408] - Restrict Ranger User's capabilities according to their role
• [RANGER-2420] - Ranger spends 36% of CPU in ObjectMapper
• [RANGER-2421] - Track and display application id of service generating access audit on audit audit page
• [RANGER-2427] - Tag policies are not evaluated if no security zones are configured
• [RANGER-2431] - Upgrade Atlas version to 2.0.0
• [RANGER-2432] - Upgrade Hadoop Version to 3.1.1
• [RANGER-2435] - Add support for sticky breadcrumbs.
• [RANGER-2436] - Custom condition: Access from cluster
• [RANGER-2446] - Suggestion - Include security zone details as part of admin audit for policy update
• [RANGER-2447] - Remove the trailing slash in Ranger URL in RangerAdminJersey2RESTClient
• [RANGER-2458] - Cluster property name changes in Ranger Plugin code
• [RANGER-2464] - Upgrade spring, zookeeper, c3p0, jackson-databind, tomcat libraries
• [RANGER-2465] - Create a PolicyCondition to apply if all given tags are present for the accessed resource
• [RANGER-2466] - Improvement in setting cluster Name in RangerAccessRequest
• [RANGER-2467] - similar to clusterName custom condition, add clusterType custom condition.
• [RANGER-2468] - Upgrade jQuery version in Ranger.
• [RANGER-2475] - Replacing bootstrap accordion with jquery SlideToggle.
• [RANGER-2481] - Create a tag service when a resource service is created and link it to resource service
• [RANGER-2482] - Ranger: use Solr API to upload config set (during bootstrapping)
• [RANGER-2483] - Improve import API to merge the policies if resources are exactly same
• [RANGER-2489] - Missing dependencies in assembly for Presto plugin
• [RANGER-2490] - Add https support while using Solr API to upload config set
• [RANGER-2491] - Ranger Custom PolicyCondition for TagsNotPresent and AnyTagPresent
• [RANGER-2496] - Update Spring Security version to 4.2.13
• [RANGER-2498] - Improvement to plugin status tab.
• [RANGER-2503] - Ranger Import API should be able to override an existing policy
• [RANGER-2506] - Add cluster name in plugin status tab.
• [RANGER-2507] - Support for policy to implicitly deny all accesses not explicitly allowed by it
• [RANGER-2508] - Good coding practices for concurrent policy label creation
• [RANGER-2515] - add .gitignore for project plugin-presto and ranger-presto-plugin-shim
• [RANGER-2517] - UI changes for policy to implicitly deny all accesses not explicitly allowed by it.
• [RANGER-2523] - Ranger Admin debug config improvement

Bug

• [RANGER-1644] - Change the default Crypt Algo to use stronger cryptographic algo.
• [RANGER-1738] - RangerYarnAuthorizer not compatible with Hadoop-3.0.0
• [RANGER-1951] - build problems with the saveVersion.py script
• [RANGER-1955] - Wrong quoting in Ranger SQL install scripts
• [RANGER-2112] - Ranger KMS broken with JDK 8 update 171
• [RANGER-2114] - Internal Exception: com.mysql.jdbc.MysqlDataTruncation: Data truncation: Data too long for column 'content' at row 1
• [RANGER-2152] - Incorrect debugging information in RangerPluginClassLoader.java
• [RANGER-2155] - Ranger Tagsync fails to Authenticate to Atlas when Tag Source set to AtlasRest in Kerberos environment
• [RANGER-2160] - 'Email Address' search is not working properly along with other filter in user listing page, userRoles filters also needs to be improved.
• [RANGER-2165] - Address JPA Cache issue when policies Create, Update and Delete are done via REST API in Apache Ranger admin
• [RANGER-2168] - A ClassNotFoundException is thrown with atlasrest as a tag source
• [RANGER-2180] - Handle upgrade correctly when token is not defined in the request context
• [RANGER-2182] - Handle upgrade scenario since atlas-service def is added with new resources for relationship
• [RANGER-2183] - Use INodeAttribute information to authorize HDFS access
- Increment service-specific policy and tag versions after update transaction is committed
- External Group search fails on Ranger UI when installed with postgres
- Atlas service default policies should allow relationship operations for all
- Form validation during testconnection should be consistent with service creation/editing
- TagPolicy not working due to failure in updating tag policy version
- Ensure that any explicit threads used by Ranger are marked as daemon threads
- Delegate Admin is not able to create policy
- Log no ranger audits when entityId value is null or empty string
- Ranger Admin's admin log event for changing Audit Logging of a policy doesn't show the actual changes
- Tomcat Security Vulnerability Alert. The version of the tomcat for ranger should upgrade to 7.0.90.
- Can't copy and paste multiple paths into Ranger Admin UI for HDFS create policy
- Hive "show grants" when Ranger is authorizer should show permission details from Ranger
- Restrict tag module access to unprivileged users
- External user's email address can be edited
- Audits: filter out service audit logs and additional users logs from user audit logs
- Log no ranger audits when entityId value is not null or empty string
- The error message for changing password is incorrect in User Profile page.
- Make db_setup retry delay configurable
- Unable to delete user if he has references in new ref tables.
- Test case fix for RANGER-2276
- zoneName field is getting added with type "boolean" in Ranger Solr schema
- Perform graceful terminate with retries before doing forceful kill for usersync and tagsync
- Sqoop repository config missing "Common Name for Certificate"
- Remove unnecessary explicit dependency for apache commons compress jar in Ranger
- Kafka default policies for new resources are not showing up in UI when upgrade is done from older version
- Implement best coding practices for validating user input
- Restrict tag module access to unprivileged users
- Ensure that case of resource-definition names and access-type names in Ranger policy is the same as in service-definition after successful validation
- Allow service admin and delegated admin user to view list of users and groups though they have 'USER' role
- Make db_setup retry delay configurable
- Email Address should be verified when Add New User in Ranger Admin
- Kylin repository config missing "Common Name for Certificate"
- Unable to delete user if he has references in new ref tables.
- The emptyText of User Sync and Plugin Status should be reasonable
- The error message for changing password is incorrect in User Profile page.
- User is getting total count of groups even if he is assigned to one group due to which pagination is breaking
- Unable to build image using docker
- Sqoop repository config missing "Common Name for Certificate"
- Unable to get Audit Admin tab page.
- Test case fix for RANGER-2276
- Front-end and back-end email address regular expression should be the same
- getContentSummary validation failure
- Modify JAVA_VERSION_REQUIRED to 1.8 in install.properties
- Modify the permissions of the kms install.properties file to 700
- Need to add property dfs.permissions.ContentSummary.subAccess when enabling Ranger HDFS plugin manually
- When Audit spooling to local filesystem is enabled, log files of the component have a show a wrong error message
- Knox Plugin doesn't pass X-Forwarded-for remote address to Ranger
- Native code can segfault or return misleading error messages
- After the user profile is updated, the page still displays the original information.
- tagsync fails to authenticate with ranger in kerberized cluster when using ranger-tagsync-update.sh script
- Incorrect git url on the homepage
- Docker build fails due to PhantomJS dependency
- zoneName field is getting added with type "boolean" in Ranger Solr schema
- Update Ranger db schema to use common sequence name
- Time-based policies do not work correctly if access time is not set in the authorization request
- Logs does not get generated for Zone Description field available on Security Zone page.
- Audits: filter out service audit logs and additional users logs from user audit logs
- Overlapping of multiple "include" toggle button on policy create/edit page.
- Ranger HBase plugin should pack guava lib as a dependency.
- Context-Enrichers need to clean up completely when the policy-engine is destroyed
- UI changes for User role users should also have access to Security Zone
- Exclude jackson jaxrs library from ranger-admin packaging
- Evaluate tag policies in the same security zone as accessed resource
- Ranger HBase Test failure due to Mini HBase cluster start up issue.
- Restrict capabilities of security zone administrator and auditor
- Ranger UI: Clicking on zone edit Breadcrumb redirect to 404 page not found
- Ranger installation is failing for Oracle and Postgres DB
- Reports page: policy listing to have column of Zone name
- External user's email address can be edited
- Show zone association with tag based service.
- Hive "show grants" when Ranger is authorizer should show permission details from Ranger
- Security Zone policies do not work correctly when incremental policy updates are enabled
- Remove non-existing URL entries from spring config file
- User creation POST and PUT response not showing groupPList and groupNameList with expected data
- RangerAuthContext is not correctly initialized
- Ranger Plugin ClassLoader Doesn't Restore Thread ClassLoader
- Failed to refresh policies when servicename contains space
- Incorrect response when trying to delete user attached to a security zone
- Get All Zones API is returning response in raw format, proper response object is required.
- Inconsistency in policy operations in a disabled Ranger service
- HiveServer2 fails to start with Hive Plugin for Ranger
- User's listing page hits users API call twice from UI
- policy name needs to be unique within security zone and service
- Ranger Security Zone needs to be added in audit type filter in admin audit
- proper error should be thrown when service part of zone being deleted.
- Delegate-admin permission granted by policy needs to be effective only within the zone to which the policy belongs
- Evaluation of Ranger policies targeted to valid but partial resources
- rangerusersync open too many session for ldap sync
- Policy level condition sample matcher initialization issue
- Restrict Admin role user to create Zone for KMS service
- Policy Condition Evaluators existing and newly created should work in both policy level and policy item level
- Python script to update rangertasync config properties
- Value of isExcludes flag needs to be considered when matching accessed resource to Ranger policy
- Set Atlas Entity owner to RangerAccessResource ownerUser attribute for Atlas Ranger Plugin
- Improve sql script to skip statements when atlas service def is not supported
- Solr audit fails in Atlas plugin
- Ranger KnoxSSO authentication in Ranger HA environment
- Zoneadmin User is able to create policy for those services which is not associated to zone
- Remove dependency from com.google.common.base.Objects or MoreObjects
- Update grant/revoke error message to provide more information about the principal type
- Legacy PublicAPI REST API to get all policies fails
- Unable to view policy details from access audits when policy has policy condition at policy level
- Admin logs are not getting generated when "policy level" policy condition is updated
- Import of Tag based policies for zone
- if service part of zone is not present then null pointer exception is thrown
- Atlas plugin is not working when security zone is created for Atlas service in Ranger Admin.
- Tag data-masking policy should allow only one tag as resource
- When service created inside a zone landing page that service gets created in unzoned landing page.
- Upgrade of Ranger Admin to the current version fails in PatchForKafkaServiceDefUpdate_J10025
- [E] ranger_core_db_mysql.sql file import failed!
- Ranger admin authorization audits fails intermittently to fetch from Solr
- java.lang.IllegalArgumentException: More than one fragment with the name during Ranger start after RANGER-2464
- Upgrade of Ranger Admin to the current version fails in PatchForAtlasResourceAndAccessTypeUpdate_J10016
- Policy version and details in access audits wrong when deny condition added to policy
- Exception in thread "main" java.lang.NoClassDefFoundError: com/google/common/base/Preconditions
- Change test connection preferred SQL statement for Oracle DB Flavor
- Hive URL Policy doesn't match if recursive flag is on for the url resource
- Resource policy names with a characters that are typically HTML escaped mutate and grow as they are saved.
- Ranger takes long time to delete a service with many policies
- Zone Policies not getting imported when 'updateIfExists=true' is passed through curl.
- Presto plugin insert bug
- Add validation message for Importing non JSON file on import action.
- default tag based service is getting created for the tag based service
- Unable to delete user if he has references in new ref tables.
- Search field validation prompt is inconsistent with field names in audit page
- Update Ranger default policies to provide entity-read access to public group
- Allow service creator to delete the service
- Import policy may fail if a policy exists with same guid in another service
- Prevent Roles to be saved in Ranger Role Management page when user or groups are not added to the role

Test

- Unit test coverage for XUserMgr and UserMgr class
- Unit Test cases to cover policy operations from service admin user

Wish

- Add JavaScript unit tests
- Remove deprecated phantomjs NPM package

Task

- Remove deprecated client API from HBase plugin
- Define explicit (test) dependency on json-smart in the Knox agent
- Grammatical error in UI
- Zone Admin and Zone Auditor can see only its associated audit access log
- Release Ranger 2.0.0
Sub-task

- [RANGER-2175] - Write install guide for Ranger Elasticsearch plugin RANGER-2170
- [RANGER-2219] - De-normalize schema for storing tags and related objects
- [RANGER-2260] - Atlas servicedef version change patch should update atlas access type def for tag def also.
- [RANGER-2274] - Allow delegated admin user to view list of users and groups though they have 'USER' role
- [RANGER-2293] - Create and update ref tables for security zone data
- [RANGER-2310] - Record admin audits in Ranger during Create, Update and Delete operations on Zone
- [RANGER-2320] - Make db schema patches script idempotent for all DB Flavors
- [RANGER-2402] - Best Practices: Make db schema script idempotent
- [RANGER-2429] - Ranger KMS is not starting properly
- [RANGER-2477] - Ranger KnoxSSO authentication when X-Forwarded-Host header is not forwarded