* app\_black\_lists and app\_white\_ds :-
  + user has\_many through association and consolidate app\_black\_lists and app\_white\_lists into one join table
* Refactor following classes to lib, helpers or separate gems
  + ApkIcon
  + CloudwordsProjectt
  + ContagioScraper
  + Cvss
  + Daimler (currently empty)
  + DataDump
  + Email
  + Eula
  + ExceptionReport (currently empty)
  + GithubIssue
  + HCN
  + Impact
  + Locale
  + NetConfig
  + Platform
  + PlistUploader
  + ReportGenerator
  + RulesDefault
  + RuleType
  + RulesRanked
  + S3MarketData
  + Stages
  + Stat
  + UserStat
  + VersionCheck
  + VirusTotalInfo
  + VirusTotalStatusJob
  + Zendesk
* Refactor following modules to lib or separate gems
  + FindLinks
  + LocaleLocale
  + MDM
* Refactor Credit to User make it an attribute

**Questions**

* What are groups? - Groups are from MDM associated with policies, policies are applied to devices and devices belong to users. - Organization is the hub
* Is there a reason for organization\_id in logging\_servers? We can determine org\_id from user, right? - Can be removed.
* application\_id in logging\_serves. Needed? - Can be ignored
* What are lsls? - Can be ignored
* What are regression results? - Can be ignored
* malwares vs malware\_states - Can be combined into one malwares
* What is application\_index model for? The collection is empty in staging database. - Checked with Ian : It is used for downloading market apps in Google play so it need not be migrated to Postgresql.
* app\_white\_lists vs whitelists ? checked with Anuprit - app\_white\_lists is the correct one
* app\_black\_lists vs blacklists ? check with Anuprit - app\_black\_lists is the correct one
* Is there a reason for user\_id in group\_devices? We can determine user\_id from groups. Right? - Organization is the hub
* What are fleets? - Can be removed.
* Violations vs Policy Violations ??
* Relationship between mdm\_apps and mdm\_devices should be n <-> n. Right?

**Schema Redesign Notes:**

* Create a new model for tags with HBTM assoication between applications and tags. (This will give the ability to filter or search by a tag)
* Remove the fields tags and user\_ids and tags from applications model
* Remove following models from at-api-server
  + RulesOutput
* Combine models url\_white\_lists and url\_black\_lists to one model url\_white\_black\_lists
* New mapping table groups\_policies for n <-> n relationship between groups and policies
* New model SigId (sig\_ids) to support sig\_ids (this is needed to remove sig\_ids array from reports table)
* New mapping table reports\_sigs to support n <-> n relationship between reports and sigs
* Remove market\_data hash and arrays atattributes, permissions from reports for migration.
* Converted following array attributes of brand\_informations to their own models
  + url\_list
  + image\_list
  + url\_img\_list
  + ip\_domain\_host\_list
  + email\_list
  + infringe\_history
  + scan\_history
* Remove policy hash from policies and add following individual attributes for policies
  + tracks\_location
  + action\_tracks\_location
  + accesses\_address
  + ….
  + …..
* Removed user\_id from logging\_servers (logging\_server should belong to user)
* Removed app\_ids from mdm\_devices: app\_id can be derived from mdm\_apps
* Removed actions\_taken hash from mdm\_devices (actions\_taken is empty in the staging database). Should be added as a new model if it is needed.
* Remove device\_id from GroupDevice and renaming it to GroupUser. Users belong to group and user has a device.
* Deleted static\_reports and logging\_servers as they are not needed any more.