Efficient Deployment Ideas

This page contains notes about ideas that are supposed to make midPoint deployment more efficient.

Product Improvements

- User interface support to resolve "disputed" situation.
- Visual mapping editor
- ML recommender for probabilistic correlation.
- Validation of script statements when importing object, not only XML/JSON/YAML. Currently the object can be imported even with syntax errors in Groovy
- Ability to disable mappings or attributes in schema handling/object template instead of commenting/removing them
- Search gui with auto completion (a'la JIRA) to create query
- Eclipse plugin
  - Unification of query playground and eclipse plugin.
  - MidPoint Studio - maybe even consider abandoning eclipse and move to IntelliJ. But Jasper and Directory Studio may prohibit that.
  - Improve error handling (e.g. reference resolution fails with error 500 while Import from GUI shows the error)
  - Validation of script statements when importing object, not only XML/JSON/YAML. Currently the object can be imported even with syntax errors in Groovy
  - Support for diff-ing objects in a more user-friendly way (currently possible to diff local and remote object with delta results)
  - Simulation: e.g. to run a mapping or functionLibrary with some repository data or user provided data and see the results without storing anywhere
- Resource wizard
  - Make it really a wizard, not just configuration GUI
  - Integrate resource configuration samples as templates
  - Better handling of association definitions
- Improve error handling and reporting in midPoint (but how exactly?)
- JSON/YAML tooling: data conversion GUI, better doc, samples (automatic conversion), etc.
- Automatic reload (without restart)
  - Extension schema
  - Connectors
- Better "preview changes"
  - For each value show where it came from: inbound/outbound/template, which specific mapping produced it
- Better error messages
  - XML errors: indicate the line number of the problem
  - Script errors: show line number in the XML file
  - Note: Sometimes, both will refer to line numbers of the object stored in repository, which may be different that source line numbers. But better than nothing.
    - Maybe showing also in which mapping/attribute this error in script happened, would help (if we're not showing that already)
- Object import/validation
  - XML import/validation that does not care about ordering of elements
  - Validate scripts, whether they are compilable:

    ⬆ **MID-5343** - Uploaded compilation error in script code prohibts midPoint startup `OPEN`

- Add Connectors page to Resources part of GUI ➕ **MID-5332** - Add Connectors page to Resources part of GUI `OPEN`

Process Improvements

- Better samples. Samples from practice, not just "theoretical" and testing samples.

Unsorted

- Documentation generator (e.g. from resources, to generate technical documentation about setup, mappings etc.)