



Toolforge webservices are in the final stages of [migrating to the toolforge.org domain](#).  
Please help us clean up older documentation referring to tools.wmflabs.org!

# Incident documentation/20160628-wdqs

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*Switching WDQS to Scap3 deployment caused some issue and a downtime of the service.*

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## Summary

Tuesday June 28 around 19:30 UTC we migrated WDQS deployment to Scap3. Scap3 deployment replaces the application directory by a symlink, leading to files outside of scap in that directory to disappear. This lead to WDQS failing for about 20 minutes between 19:53 UTC and 20:11 UTC.

## Timeline

- 19:53: WDQS deployed and restarted by Scap3, service failing
- 19:58: issue tracked to missing symlink to wikidata.jnl (blazegraph data file)
- 19:59: running puppet to restore the missing symlink -> did not work (failed dependency between due to application folder now being managed by Scap3)
- 20:08: stopped puppet while restoring service manually
- 20:11: Service restored by manually restoring symlink

## Notes

- Migrating WDQS to scap looked like a simple operation. Plenty of services have already done this migration without issue.
- `puppet agent --noop` is a great tool especially in non standard situation (Gehel did not use it, but should have).
- Restoring service did take longer than expected. Gehel was not familiar enough with the details of how WDQS work and took some time double checking it before making changes.

## Conclusions

- Scap3 supports canaries, they should *\*always\** be used.

## Actionables

- Use canaries for WDQS deployment [✓ Done](#) <https://gerrit.wikimedia.org/r/#/c/296459/>.
- Modify puppet now that WDQS application directory is managed by Scap3 [✓ Done](#) <https://gerrit.wikimedia.org/r/#/c/296446/>.
- WDQS scap deployment should recreate symlink [✓ Done](#) <https://gerrit.wikimedia.org/r/#/c/296445/>.
- Migration to Scap3 documentation should emphasize the use of canaries more. [Documentation already exists](#), but we probably need more emphasis, or a checklist for migrated services [✓ Done](#) See new [Scap3 Migration Guide](#).
- Cleanup to puppet code to not duplicate what is managed by scap3, or refactor it to move all mutable files out of the application directory. [Task T139434](#)

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This page was last edited on 6 July 2016, at 00:43.

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