

Test coverage

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Test coverage

A test script is available in trunk which generates a CSV file containing information extracted directly from the test scripts themselves. The script is at http://fisheye.opendnssec.org/browse/opendnssec/trunk/testing/generate_test_case_info.sh

usage: generate_test_case_info <test_directory (optional-default is pwd)>

It walks the three sub test directories that might exist below the specified test directory (i.e. test-cases.d, test-cases-daily.d and test-cases-weekly.d).

Input

As of now only the test scripts in trunk have been updated to work with this. In order for the script to extract information from comments in the script the appropriate comments must start with either #TEST:,#DISABLED:, #TODO: or #OPENDNSSEC/SUPPORT:.

- #TEST: Detailed description of what the test does
- #DISABLED: Details of any platforms/DBs the test is disabled on with a reason why
- #TODO: For notes to self. Also, the testing is currently quite granular in some places so I have marked in the #TODO section any tests that I think could be merged....
- #OPENDNSSEC/SUPPORT: Also, any lines starting #OPENDNSSEC or #SUPPORT (i.e. a JIRA issue ID) will have the ID extracted and written to the output so we can see what bugs have specific fixes in the regression tests. This means if we do write tests for bugs then we can use the naming convention above so it easy to tell what functionality it covers and include the issue id in comments. The script will also detect the presence of the 'off' file to establish the status of the script.

Output

The script currently writes its output to a CSV file which can then be viewed in any spreadsheet application. Example CSV and spreadsheets are attached to this page (choose Tools->Attachments).

Instruction on how to run tests locally: [How To Develop tests locally](#)

Key missing tests (trunk)

Application	Area	Test name	Type	Details	Comments
General	conf	privileges	D	Check enforcer and signer can start with varying privileges set	Tests exist but are off because of problems with the setup.
Enforcer	ods-ksmutil			TEST ALL OPTIONS!!	
Enforcer	conf	ManualKeyGeneration			
Enforcer	rollover	ds-seen errors		ds-seen error cases (wrong key, right key/wrong state, etc.)	Tests added (r7042) but need to be checked by someone else.
Enforcer	rollover	Manual rollover			
Enforcer	policy	move zone		Move a zone between two policies.	

Signer	adapters	acl		check all the permutations of the acl	
Signer	adapters	rollovers		make sure to test key rollovers when using the adapters!	
Signer	zones	validation		Use an external validation tool (validns) to validate zone produced	validns is used in several tests now but we should still review if it could be used in more
Signer	zones	validation		Use a script to check the consistency of zone produced against the policy/database.	
Signer	ods-signer			TEST ALL OPTIONS!!	
Signer	zones	signatures		Sign a simple zone with a policy that has a short refresh period and short signature lifetimes. Leave ODS running long enough that the signatures expire and signer must generate new ones.	

2.0 - Enforcer NG

Area	Sub-area	Smoke	Weekly	Details	Status	Who
Enforcer NG	Policy			Test the new rollover methods		
				Test algorithm rollover		
				Test policy rollover		
				Allow ZSK and KSK to be the same key		
				Support for unsigned zones		