

DNSSEC-Tools for DNSSEC Automation and Management

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DNSSEC-Tools:

Tools for Using DNSSEC

- Zone Administration Tools
- Authoritative Domain Name Server Tools
- Recursive Domain Name Server Tools
- Application/Script Writers
- End Users (DNSSEC Native Applications)
- DNS Error Checking Tools
- DNSSEC Management Tools

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DNSSEC-Tools: DNSSEC Management Tools







DNSSEC-Tools Components - DNSSEC-Tools

https://www.dnssec-tools.org/wiki/index.php/DNSSEC-Tools_Components


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File:Nagios.png - DNSSEC-Tools x DNSSEC-Tools Components - D... x

logwatch Example A logwatch plugin for DNSSEC parsing of the BIND server's system logging messages.

DNSSEC Management Tools		
blinkenlights	Manual Example CLI Help	Display information on the current state of the zones rollerd is managing. Some aspects of rollerd execution and zone control may be performed with blinkenlights . 
bubbles	Manual CLI Help	Simple display of the rollover status of zones managed by rollerd . Each managed zone is shown in a color-coded button in a window of buttons. This is a display-only tool; actual control is not allowed. 
lights	Manual CLI Help	Very simple overview of the rollover status of zones managed by rollerd . A stoplight-style display shows those zones in normal operation, those zones in rollover, and those zones in need of manual intervention. This is a display-only tool; actual control is not allowed. 
grandvizier		Display information on the current state of the realms dtrealms is managing. Some aspects of dtrealms execution and realm control may be performed with grandvizier . 
Nagios Plugin and Modifications		A plugin and modifications to the Nagios computer and network monitoring system. The dt_zonestat plugin retrieves zone rollover status from a rollrec file. The modifications provide nicer Nagios output for the result of the dt_zonestat plugin. These modifications have been made to Nagios version 3.2.3. 
Zabbix Plugins		Modifications to the Zabbix monitoring system. These monitor plugins have been developed under Zabbix version 1.8.8. <i>This is currently under development and has not been released yet.</i> 

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 https://www.dnssec-tools.org/wiki/index.php/File:Lights.png

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DNSSEC Untrusted: 0

DNSSEC-Tools: Plug-In for Nagios

The screenshot shows a web browser window displaying the Nagios Core interface. The browser's address bar shows the URL <https://www.dnssec-tools.org/wiki/index.php/File:Nagios.png>. The page title is "File:Nagios.png".

The interface features a sidebar on the left with navigation links for "dnssec-tools" (Main web page, Main Wiki Page, download, Sign Your Zone, Tutorials, Components), "getting started" (Authoritative Zone Administrator, Authoritative Server, Recursive Server, Applications, Service Groups, Development), "project" (Mailing Lists, Bug Database, SVN Repository), and "wiki" (Recent changes, Random page, Help). There is also a "search" field.

The main content area displays the Nagios Core interface. At the top, it shows "Current Network Status" (Last Updated: Thu Mar 10 18:01:31 EST 2011) and "Host Status Totals" (Up: 4, Down: 1, Unreachable: 0, Pending: 0). Below this is the "Service Status Totals" (OK: 3, Warning: 1, Unknown: 0, Critical: 1, Pending: 0).

The "Service Status Details For All Hosts" section contains a table with the following data:

Host	Service	Status	Last Check	Duration	Attempt	Status Information
example.com/example.com	zone rollover	ROLLING	03-10-2011 18:00:23	0d 0h 6m 6s	1/3	ZSK Rollover Phase 3
inside.example.com/example.com	zone rollover	NORMAL	03-10-2011 18:00:35	0d 0h 5m 56s	1/3	Normal Operation
test1.com	zone rollover	ATTENTION REQUIRED	03-10-2011 18:00:47	0d 0h 5m 44s	3/3	KSK Rollover Phase 6: ATTENTION NEEDED
web-server1.example.com	Host Check	OK	03-10-2011 18:00:59	0d 0h 5m 32s	1/3	OK
web-server2.example.com	Host Check	CRITICAL	03-10-2011 18:01:11	0d 0h 0m 20s	1/3	CRITICAL

At the bottom of the table, it says "5 Matching Service Entries Displayed".

Below the table, there is a "File history" section.

DNSSEC-Tools: Plug-In for ZABBIX

UEM East: UEM-East: DNS Response Times from A-Root (1h)

	last	min	avg	max
DNS Response for A-Root to TISLABS.COM [avg]	0.01	0.01	0.03	0.06
DNS Response for A-Root to NIC.MIL [avg]	0.04	0.01	0.03	0.05
DNS Response for A-Root to . [avg]	0.01	0.01	0.03	0.11

Size of this preview: 800 x 506 pixels.
Full resolution (933 x 590 pixels, file size: 160 KB, MIME type: image/png)

DNSSEC-Tools: Plug-In for ZABBIX

The screenshot shows the ZABBIX web interface with the DNSSEC-Tools plug-in. The browser address bar shows the URL: `piiper.netsec.tislabs.com/zabbix/latest.php?open=1&applicationid=0&`. The page title is "DNSSEC-Tools: Latest data [refreshed every 30 sec]".

The ZABBIX navigation menu includes: Monitoring, Inventory, Reports, Configuration, Administration, and a search bar. The "Latest data" tab is selected.

The "ITEMS" section shows a table of monitoring data. The table has columns for Host, Description, Last check, Last value, Change, and History. There are two main categories of items: "DNS Management" (6 items) and "DNSSEC Rollover" (10 items).

Host	Description	Last check	Last value	Change	History
DNS Management - (6 Items)					
	Zonefile Status - Example.com	19 Jun 2012 15:04:05	zone file valid	-	History
	Zonefile Status - Fail.com	19 Jun 2012 15:04:06	dns_master_load: /ue ...	-	History
	Zonefile Status - Ideal.com	19 Jun 2012 15:04:07	zone file valid	-	History
	Zonefile Status - Instance.com	19 Jun 2012 15:04:09	zone file valid	-	History
	Zonefile Status - Model.com	19 Jun 2012 15:03:09	zone file valid	-	History
	Zonefile Status - Paradigm.com	19 Jun 2012 15:03:10	zone file valid	-	History
DNSSEC Rollover - (10 Items)					
	Numeric Rollover Status of example.com	19 Jun 2012 15:03:54	3	-	Graph
	Numeric Rollover Status of ideal.com	19 Jun 2012 15:03:58	-7	-3	Graph
	Numeric Rollover Status of instance.com	19 Jun 2012 15:04:05	3	-	Graph
	Numeric Rollover Status of model.com	19 Jun 2012 15:03:39	-1	-	Graph
	Numeric Rollover Status of paradigm.com	19 Jun 2012 15:03:40	-1	-	Graph
	Rollover Status of example.com	19 Jun 2012 15:04:09	ZSK phase 4	-	History
	Rollover Status of ideal.com	19 Jun 2012 15:03:51	KSK phase 7	-	History
	Rollover Status of instance.com	19 Jun 2012 15:04:02	ZSK phase 3	-	History
	Rollover Status of model.com	19 Jun 2012 15:04:02	KSK phase 1	-	History

DNSSEC-Tools:
New Release
Available **NOW**

at:

<https://www.dnssec-tools.org/>

