

# Catalog Nagios

Field Catalog Monitoring With Nagios

# Monitoring the Field Catalog

- Monitor all data is impossible
- Handle ingest problems
- Field data quality and health
- Multiple plugins to monitor field data
- Highly configurable



# Features

- General Monitoring Services
- Monitoring Incoming File Streams
- Checking Whole Product Datasets
- YAML Configuration

```
Last login: Tue Nov  6 10:33:59 on ttys000
novikov $ cnagios
novikov $ ./bin/check_file_feed -p README.md -v 3
FILE-FEED CRITICAL

Feed Age: 01 days 06:01:13

File Location: /Users/dgb/Dropbox/NCAR/catalog-nagios/README.md

Product label: Default Product

Additional Comparison Information
Over warning bound by:      01 days 05:51:13
Over critical bound by:     01 days 05:46:13

Settings
Warning Bound:              00:10:00
Critical Bound:             00:15:00
Verbosity:                  3
novikov $
```

DC3:

```
products:

# /net/web/mapserver/html/ops/AL_LMA_10minute_composite_latest.txt
- service_description: "WMS AL_LMA_10minute_composite_latest.txt"
  warning_bound: 10:00
  critical_bound: 20:00
  verbosity: 3
  path strftime: "/net/web/mapserver/html/ops/AL_LMA_10minute_composite_latest.txt"

# /net/web/mapserver/html/ops/AL_LMA_10minute_composite_previous.txt
- service_description: "WMS AL_LMA_10minute_composite_previous.txt"
  warning_bound: 10:00
  critical_bound: 20:00
  verbosity: 3
  path strftime: "/net/web/mapserver/html/ops/AL_LMA_10minute_composite_previous.txt"

# /net/web/mapserver/html/ops/CO_LMA_10minute_composite_latest.txt
- service_description: "WMS CO_LMA_10minute_composite_latest.txt"
  warning_bound: 10:00
  critical_bound: 20:00
  verbosity: 3
  path strftime: "/net/web/mapserver/html/ops/CO_LMA_10minute_composite_latest.txt"

# /net/web/mapserver/html/ops/CO_LMA_10minute_composite_previous.txt
- service_description: "WMS CO_LMA_10minute_composite_previous.txt"
  warning_bound: 10:00
  critical_bound: 20:00
  verbosity: 3
  path strftime: "/net/web/mapserver/html/ops/CO_LMA_10minute_composite_previous.txt"

# /net/web/mapserver/html/ops/OK_LMA_10minute_composite_latest.txt
- service_description: "WMS OK_LMA_10minute_composite_latest.txt"
  warning_bound: 10:00
  critical_bound: 20:00
  verbosity: 3
  path strftime: "/net/web/mapserver/html/ops/OK_LMA_10minute_composite_latest.txt"

# /net/web/mapserver/html/ops/OK_LMA_10minute_composite_previous.txt
- service_description: "WMS OK_LMA_10minute_composite_previous.txt"
  warning_bound: 10:00
  critical_bound: 20:00
  verbosity: 3
  path strftime: "/net/web/mapserver/html/ops/OK_LMA_10minute_composite_previous.txt"

# /net/web/mapserver/html/ops/WT_LMA_10minute_composite_latest.txt
- service_description: "WMS WT_LMA_10minute_composite_latest.txt"
  warning_bound: 10:00
  critical_bound: 20:00
  verbosity: 3
  path strftime: "/net/web/mapserver/html/ops/WT_LMA_10minute_composite_latest.txt"

# /net/web/mapserver/html/ops/WT_LMA_10minute_composite_previous.txt
- service_description: "WMS WT_LMA_10minute_composite_previous.txt"
  warning_bound: 10:00
  critical_bound: 20:00
  verbosity: 3
  path strftime: "/net/web/mapserver/html/ops/WT_LMA_10minute_composite_previous.txt"
```

disk boot	OK	10-31-2012 17:50:54	65d 17h 54m 51s	1/3	DISK OK - free space: / 24 GB (44% inode=93%);	
disk net catalog_data	OK	10-31-2012 17:51:55	49d 21h 52m 35s	1/3	DISK OK - free space: /net/catalog_data 354 GB (36% inode=83%);	
http	?	CRITICAL	09-19-2012 15:57:51	65d 17h 55m 2s	3/3	HTTP CRITICAL: HTTP/1.1 500 Internal Server Error - 37024 bytes in 0.083 second response time
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WMS goes-13_ch1_latest.txt						
WMS goes-13_ch1_previous.txt	OK	08-07-2012 16:37:42	0d 0h 18m 27s	1/3	Status: OK.	
WMS goes-13_ch2_latest.txt	OK	08-07-2012 16:38:22	0d 0h 17m 47s	1/3	Status: OK.	
WMS goes-13_ch2_previous.txt	OK	08-07-2012 16:39:02	0d 0h 17m 7s	1/3	Status: OK.	
WMS goes-13_ch3_latest.txt	OK	08-07-2012 16:39:42	0d 0h 16m 27s	1/3	Status: OK.	
WMS goes-13_ch4_previous.txt	OK	08-07-2012 16:37:18	0d 0h 15m 47s	1/3	Status: OK.	
WMS goes-13_ch6_latest.txt	OK	08-07-2012 16:38:37	0d 0h 7m 32s	1/3	Status: OK.	
WMS goes-13_ch8_latest.txt	OK	08-07-2012 16:39:57	0d 0h 8m 12s	1/3	Status: OK.	
WMS goes-13_ch8_previous.txt	OK	08-07-2012 16:41:16	0d 0h 4m 53s	1/3	Status: OK.	
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dataset: TEST1 : ops : goes-15 : 1km_ch1_vis 32334	OK	10-31-2012 17:47:09	1d 19h 32m 40s	1/3	DATASET OK: Dataset age: 00:32:11	
dataset: TEST1 : ops : goes-15 : 4km_ch1_vis 32331	WARNING	10-31-2012 17:52:10	1d 18h 28m 33s	3/3	DATASET WARNING: Dataset age: 01:07:11	
dataset: TEST1 : ops : goes-15 : 4km_ch3_water_vapor 32332	WARNING	11-02-2012 12:16:05	0d 0h 0m 38s	1/3	/usr/local/vm/gems/ruby-1.8.7-p357@catalog-nagios/gems/mysql2-0.3.11/lib/mysql2/client.rb:44:in `connect': Can't connect to MySQL server on 'sferic-dev.eol.ucar.edu' (111) (Mysql2::Error)	
dataset: TEST1 : ops : goes-15 : 4km_ch4_thermaHR 32333	OK	10-31-2012 17:50:06	1d 18h 46m 37s	1/3	DATASET OK: Dataset age: 00:35:08	
dataset: TEST2 : ops : goes-15 : 1km_ch1_vis 32337	OK	10-31-2012 17:51:07	1d 18h 45m 36s	1/3	DATASET OK: Dataset age: 00:36:09	
dataset: TEST2 : ops : goes-15 : 4km_ch1_vis 32338	OK	10-31-2012 17:52:09	1d 19h 42m 32s	1/3	DATASET OK: Dataset age: 00:37:10	
dataset: TEST2 : ops : goes-15 : 4km_ch3_water_vapor 32335	OK	10-31-2012 17:43:10	1d 19h 41m 31s	1/3	DATASET OK: Dataset age: 00:28:12	
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# Implementation

- Ruby 1.8.7
- Rails 3.2.8
- Nagios 3.3.1
- Zith9 Integration

# Challenges



# Acknowledgments