

# Chapter 1: Searching for Problems in Nginx Configuration



## Not Found

The requested URL /mirror/index.html was not found on this server.

Additionally, a 404 Not Found error was encountered while trying to use an ErrorDocument to handle the request.

---

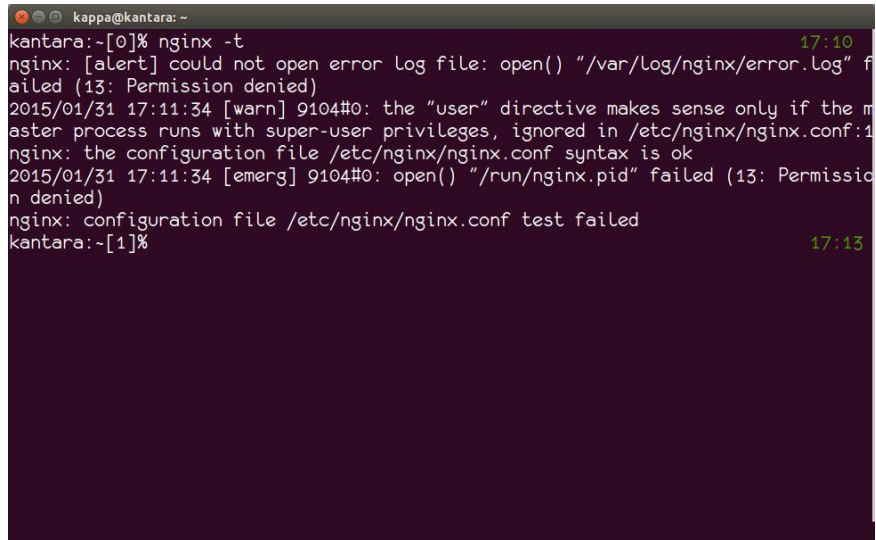
Apache/2.2.19 (Unix) mod\_ssl/2.2.19 OpenSSL/0.9.8e-fips-rhel5 DAV/2  
mod\_auth\_passthrough/2.1 mod\_bwlimited/1.4 Server at www.example.com Port 80



## 404 Not Found

---

nginx/1.6.2 (Ubuntu)



## Chapter 2: Searching for Problems in Log Files

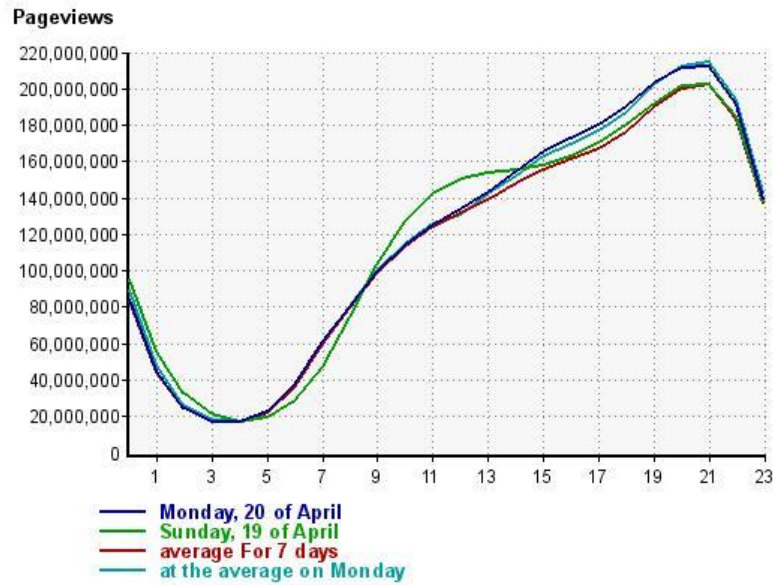


```
less nginx
/var/log/nginx/*.log {
    weekly
    missingok
    rotate 52
    compress
    delaycompress
    notifempty
    create 0640 www-data adm
    sharedscripts
    prerotate
        if [ -d /etc/logrotate.d/httpd-prerotate ]; then \
            run-parts /etc/logrotate.d/httpd-prerotate; \
        fi \
    endscrip
    postrotate
        [ -s /run/nginx.pid ] && kill -USR1 `cat /run/nginx.pid`
    endscrip
}
~
(END)
```

```
ssh kapranoff.ru
/var/log/weekly.log          640 5      1  $W6D0 JN
/var/log/wtmp                644 3        *  @01T05 B
/var/log/xferlog             600 7        100 *      JC

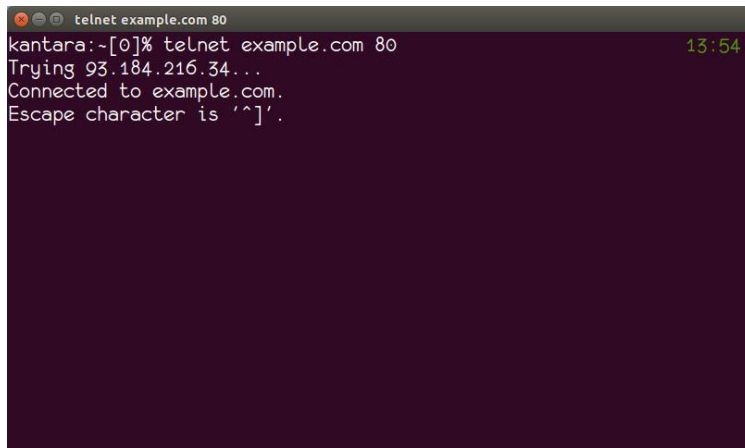
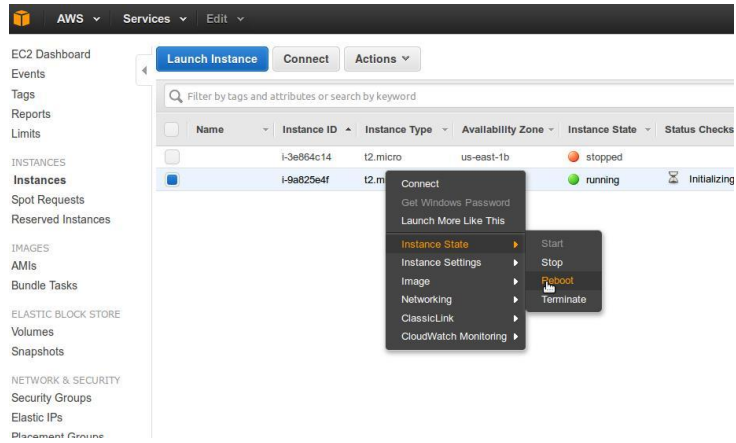
/var/log/nginx-access.log    644 *        *  @T00    JC /var/run/nginx.pid
/var/log/nginx-error.log    644 *        *  @T00    JC /var/run/nginx.pid
~
~
~
~
~
~
~
~
~
~
newsyslog.conf                41,28
```

# Chapter 3: Troubleshooting Functionality

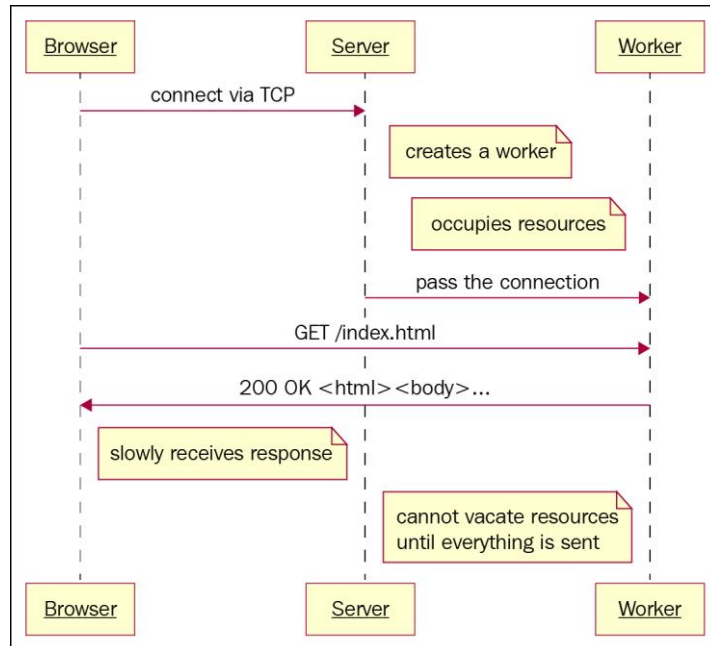


```
kappa@kantara: ~  
kantara:~[2]%  
kantara:~[2]% ping machine-learning1.example.com 13:38  
ping: unknown host machine-learning1.example.com 13:38  
kantara:~[2]% 13:38
```

```
kappa@kantara: ~  
kantara:~[0]% ping t.co 13:47  
PING t.co (199.16.156.11) 56(84) bytes of data.  
64 bytes from 199.16.156.11: icmp_seq=1 ttl=246 time=151 ms  
64 bytes from 199.16.156.11: icmp_seq=3 ttl=246 time=151 ms  
64 bytes from 199.16.156.11: icmp_seq=6 ttl=246 time=151 ms  
64 bytes from 199.16.156.11: icmp_seq=9 ttl=246 time=151 ms  
64 bytes from 199.16.156.11: icmp_seq=11 ttl=246 time=151 ms  
64 bytes from 199.16.156.11: icmp_seq=14 ttl=246 time=151 ms  
64 bytes from 199.16.156.11: icmp_seq=16 ttl=246 time=151 ms  
64 bytes from 199.16.156.11: icmp_seq=17 ttl=246 time=151 ms  
64 bytes from 199.16.156.11: icmp_seq=19 ttl=246 time=151 ms  
64 bytes from 199.16.156.11: icmp_seq=20 ttl=246 time=151 ms  
64 bytes from 199.16.156.11: icmp_seq=22 ttl=246 time=151 ms  
64 bytes from 199.16.156.11: icmp_seq=23 ttl=246 time=151 ms  
64 bytes from 199.16.156.11: icmp_seq=24 ttl=246 time=151 ms  
64 bytes from 199.16.156.11: icmp_seq=25 ttl=246 time=151 ms  
^C  
--- t.co ping statistics ---  
26 packets transmitted, 14 received, 46% packet loss, time 34237ms  
rtt min/avg/max/mdev = 151.303/151.410/151.521/0.363 ms  
kantara:~[0]% 13:48  
kantara:~[0]% 13:48
```

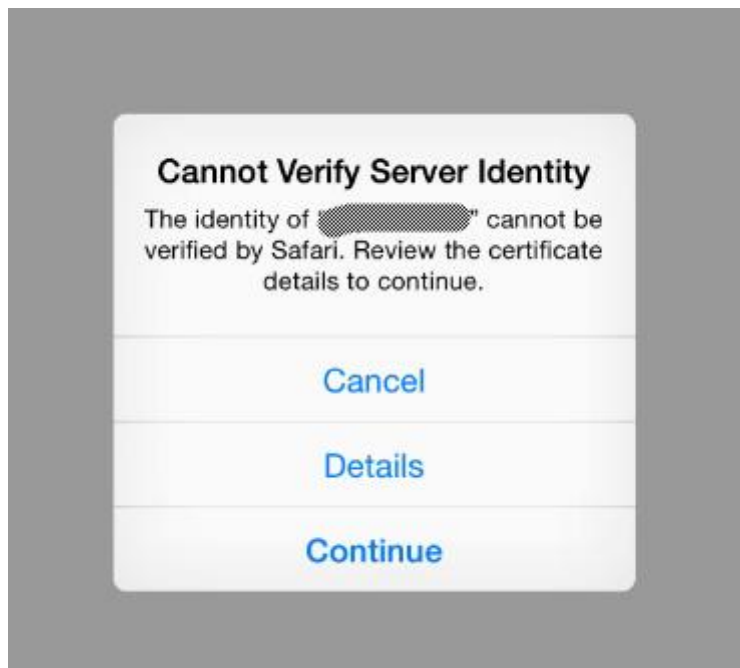
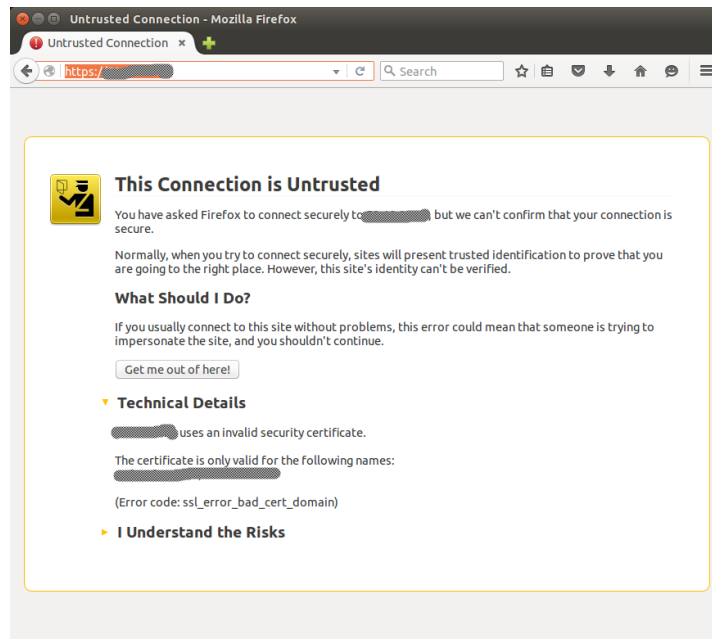
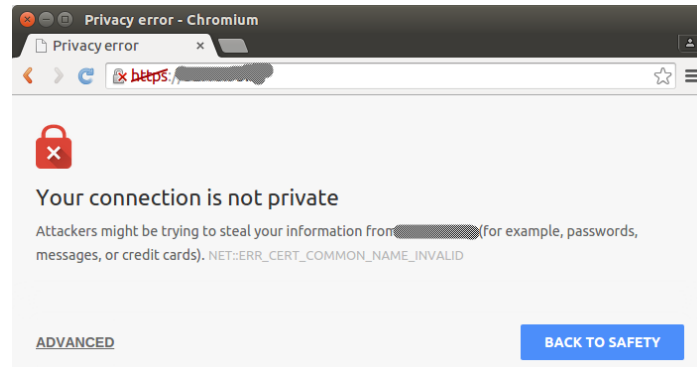


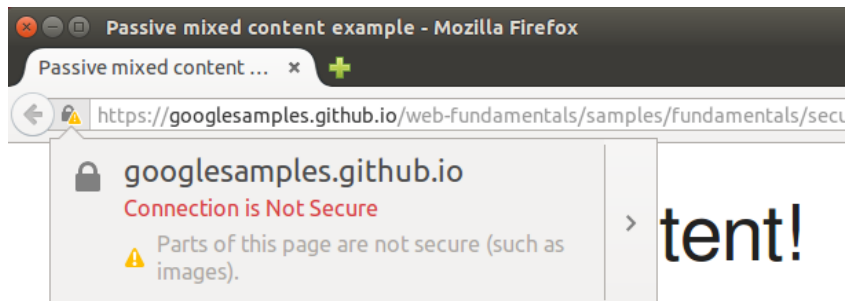
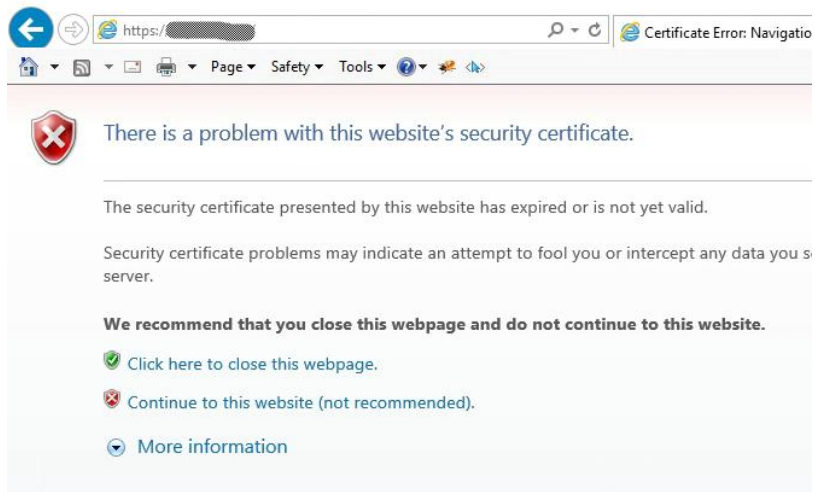
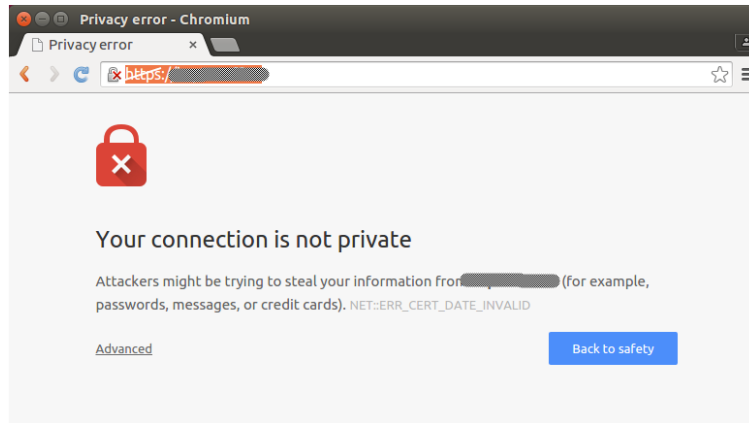
# Chapter 4: Optimizing Website Performance



URL	Status Codes	# Redirects
<a href="http://yahoo.nl">http://yahoo.nl</a>	301 → 301 → 301 → 200	3

# Chapter 5: Troubleshooting Rare Specific Problems

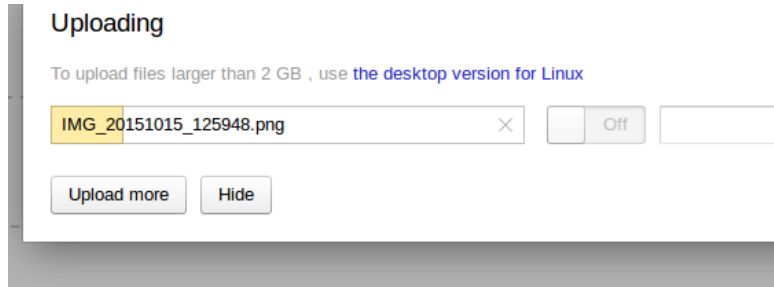
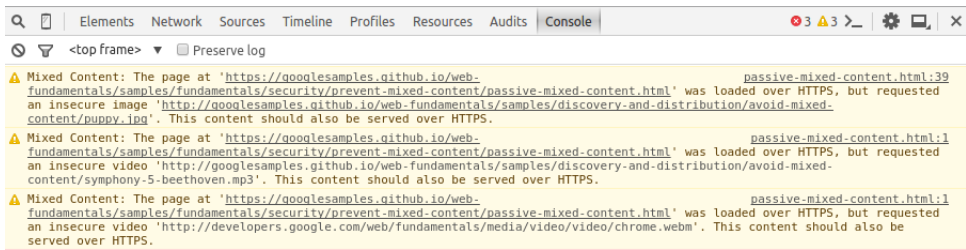
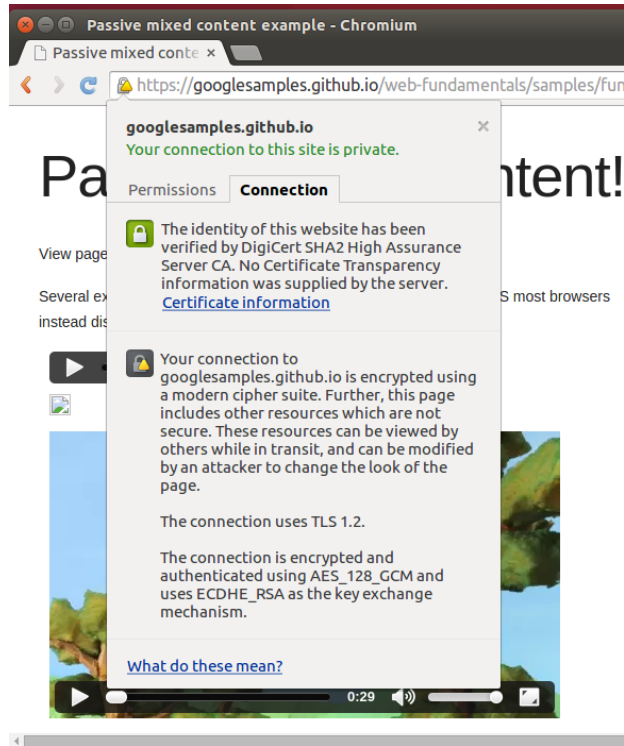




View page over: [HTTP](#) - [HTTPS](#)

Several examples of passive mixed content. When viewed over HTTPS most browsers do not








Untrusted Connection - Mozilla Firefox

Untrusted Connection x

https://[redacted] Search



### This Connection is Untrusted

You have asked Firefox to connect securely to [redacted] but we can't confirm that your connection is secure.

Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified.

#### What Should I Do?

If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.

[Get me out of here!](#)

- ▶ [Technical Details](#)
- ▶ [I Understand the Risks](#)

Firefox automatically sends some data to Mozilla so that we can improve your experience. [Choose What I Share](#) x

# Chapter 6: Monitoring Nginx

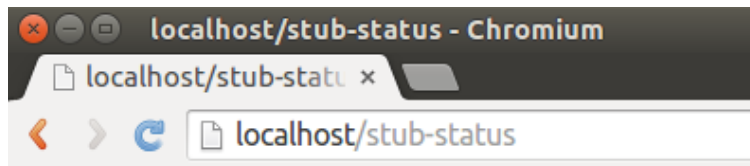
```

root@nymph: /var/log/nginx
root@nymph: /var/log/nginx# ngxtop -l access.log
running for 655 seconds, 1852 records processed: 2.83 req/sec

Summary:
-----+-----+-----+-----+-----+-----+
count | avg_bytes_sent | 2xx | 3xx | 4xx | 5xx |
-----+-----+-----+-----+-----+
1852 | 48249.299 | 1647 | 75 | 130 | 0 |

Detailed:
-----+-----+-----+-----+-----+-----+
request_path | count | avg_bytes_sent | 2xx | 3xx | 4xx | 5xx |
-----+-----+-----+-----+-----+-----+
/ | 1183 | 67672.964 | 1179 | 3 | 1 | 0 |
/atom.xml | 473 | 18929.962 | 401 | 72 | 0 | 0 |
/favicon.ico | 56 | 894.000 | 56 | 0 | 0 | 0 |
/robots.txt | 45 | 153.933 | 0 | 0 | 45 | 0 |
/trackback/ | 15 | 134.000 | 0 | 0 | 15 | 0 |
/index.opml | 9 | 30249.000 | 9 | 0 | 0 | 0 |
/apple-touch-icon-precomposed.png | 6 | 89.333 | 0 | 0 | 6 | 0 |
/apple-touch-icon.png | 6 | 89.333 | 0 | 0 | 6 | 0 |
/wp-content/uploads/sample.php | 4 | 162.000 | 0 | 0 | 4 | 0 |
/blog/wp-admin/ | 2 | 162.000 | 0 | 0 | 2 | 0 |
root@nymph: /var/log/nginx#

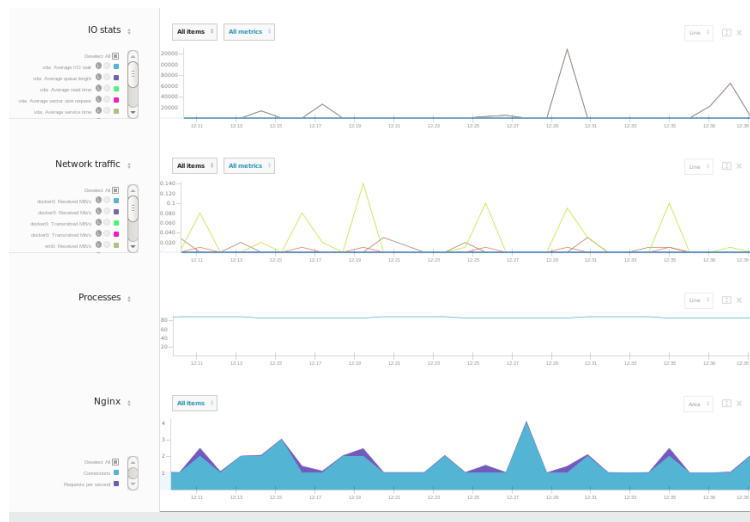
```



```

Active connections: 3
server accepts handled requests
3 3 7
Reading: 0 Writing: 1 Waiting: 2

```



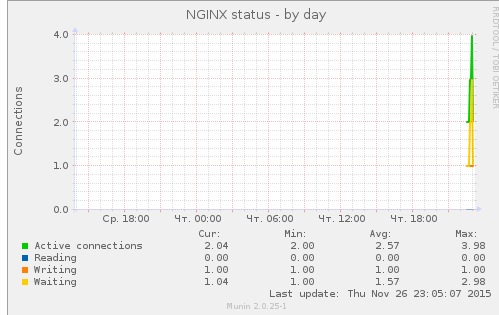
**Problems**  
 Critical (0)  
 Warning (0)  
 Unknown (0)

**Groups**  
 localdomain

**Categories**  
 disk [ d w m y ]  
 munin [ d w m y ]  
 network [ d w m y ]  
 nginx [ d w m y ]  
 processes [ d w m y ]  
 system [ d w m y ]

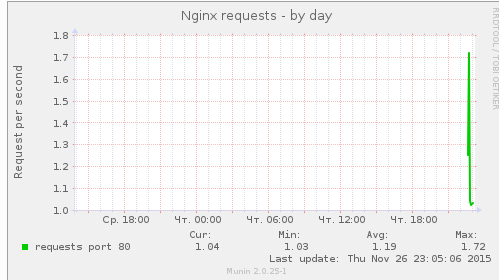
**NGINX status**

localhost.localdomain :: NGINX status



**Ngix requests**

localhost.localdomain :: Ngix requests



Overview Metrics Snapshot **Alerting** Custom Plugins

+ Alert config + Group alert config

**Device Alerts** *Ctrl (Windows), Cmd (Mac) or Shift click to perform actions on multiple alerts*

Ngix Requests : > : 50 /s 1 action, wait 1m, no repeat  ⚙️

Ngix Connections Dropped : > : 1 /s 1 action, wait 5m, no repeat  ⚙️

**NGINX+** Dashboard  Server zones  Upstreams  TCP Zones  TCP Upstreams  Caches ⚙️

**Version 1.9.4**  
 Address **206.251.255.64**  
 PID **70469**  
 Uptime **5d 3h 58m**

**Connections** Accepted: 20750626

Current	Accepted/s	Active	Idle	Dropped
29	0	4	25	0

**Requests** Total: 46926994

Current	Req/s
4	9

**Server zones**

Total: 3 / Problems: 0

**Traffic**  
 In: 0  
 Out: 0

**Upstreams**

Total: 4 / Alerts: 2

**Servers**  
 All: 7 / Up: 5  
 Failed: 2

**TCP Zones**

Conn total: 444279  
 Conn current: 0  
 Conn/s: 0

**Traffic**  
 In: 0  
 Out: 0

**TCP Upstreams**

Total: 1 / Problems: 0

**Servers**  
 All: 4 / Up: 3  
 Failed: 0

**Caches**

Total: 1 / Problems: 0

**Caches states**  
 Warm: 1  
 Cold: 0

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