

TNE30024 - Laboratory - HTTPS: selfsigned.tne30024

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Date: 20240905_1242

Last 5 Logons:

student	pts/6	10.1.37.27	Thu Sep 5 10:31	still logged in
boot time			Wed Sep 4 19:37	
boot time			Wed Sep 4 19:37	
root	pts/1		Fri Aug 2 13:25 - 13:26	(00:00)
root	pts/1		Fri Aug 2 12:19 - 13:12	(00:52)

RULE host Socket information

www	httpd	11018	3	tcp4	136.186.230.103:80	*:*
www	httpd	11018	4	tcp4	136.186.230.103:443	*:*
www	httpd	11017	3	tcp4	136.186.230.103:80	*:*
www	httpd	11017	4	tcp4	136.186.230.103:443	*:*
www	httpd	11016	3	tcp4	136.186.230.103:80	*:*
www	httpd	11016	4	tcp4	136.186.230.103:443	*:*
www	httpd	11015	3	tcp4	136.186.230.103:80	*:*
www	httpd	11015	4	tcp4	136.186.230.103:443	*:*
www	httpd	11014	3	tcp4	136.186.230.103:80	*:*
www	httpd	11014	4	tcp4	136.186.230.103:443	*:*
root	httpd	11013	3	tcp4	136.186.230.103:80	*:*
root	httpd	11013	4	tcp4	136.186.230.103:443	*:*
jbut	sshd	89438	3	tcp4	136.186.230.103:22	10.1.37.27:53484
root	sshd	89435	3	tcp4	136.186.230.103:22	10.1.37.27:53484
bind	named	89412	25	udp4	136.186.230.103:53	*:*
bind	named	89412	26	udp4	136.186.230.103:53	*:*
bind	named	89412	28	tcp4	136.186.230.103:53	*:*
bind	named	89412	29	tcp4	136.186.230.103:953	*:*
jbut	sshd	87963	3	tcp4	136.186.230.103:22	10.1.37.27:53443
root	sshd	87960	3	tcp4	136.186.230.103:22	10.1.37.27:53443
jbut	sshd	87954	3	tcp4	136.186.230.103:22	10.1.37.27:53438
root	sshd	87950	3	tcp4	136.186.230.103:22	10.1.37.27:53438
root	sshd	86968	3	tcp4	136.186.230.103:22	*:*

In order to pass this lab, your RULE host must have a Web server running that

- 1) Web server is running and serves pages
- 2) Attempt to access <https://selfsigned.tne30024> should fail due to using self-signed certificate
- 3) Attempt to access <https://selfsigned.tne30024> while accepting self-signed certificate succeeds
- 4) Download page should match expected HTML

CHECKING DNS CONFIGURATION

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Querying for (selfsigned.tne30024) using DNS server (136.186.230.103) - Correct answer (136.186.230.103)

Using domain server:

Name: 136.186.230.103

Address: 136.186.230.103#53

Aliases:

selfsigned.tne30024 is an alias for rule103.tne30024.

rule103.tne30024 has address 136.186.230.103

Test Result: PASSED

ADDING DNS SERVER 136.186.230.103 TO SYSTEM RESOLV.CONF

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DOWNLOAD PAGE NOT TRUSTING SELF-SIGNED CERTIFICATES

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HTTP QUERY <https://selfsigned.tne30024>

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--2024-09-05 12:42:29-- <https://selfsigned.tne30024/>

Resolving selfsigned.tne30024 (selfsigned.tne30024)... 136.186.230.103

Connecting to selfsigned.tne30024 (selfsigned.tne30024)|136.186.230.103|:443... connected.

ERROR: cannot verify selfsigned.tne30024's certificate, issued by 'CN=selfsigned.tne30024,O=Internet Widgits Pty Ltd,ST=Some-State,C=AU':

Self-signed certificate encountered.

To connect to selfsigned.tne30024 insecurely, use '--no-check-certificate'.

DOWNLOAD PAGE TRUSTING SELF-SIGNED CERTIFICATES

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```
HTTP QUERY https://selfsigned.tne30024
- Extra web download parameters (--no-check-certificate)
=====
--2024-09-05 12:42:29-- https://selfsigned.tne30024/
Resolving selfsigned.tne30024 (selfsigned.tne30024)... 136.186.230.103
Connecting to selfsigned.tne30024 (selfsigned.tne30024)|136.186.230.103|:443... connected.
WARNING: cannot verify selfsigned.tne30024's certificate, issued by 'CN=selfsigned.tne30024,O=Internet Widgits Pty
Ltd,ST=Some-State,C=AU':
  Self-signed certificate encountered.
HTTP request sent, awaiting response... 200 OK
Length: 5857 (5.7K) [text/html]
Saving to: '/tmp/wget_save.xEIoEqsI'

OK .....                               100% 255M=0s

2024-09-05 12:42:29 (255 MB/s) - '/tmp/wget_save.xEIoEqsI' saved [5857/5857]

=====
Downloaded Page contents
=====
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>TNE30024 &mdash; Apache Certificate Labs</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <link href="https://fonts.googleapis.com/css?family=Roboto+Mono" rel="stylesheet">
    <link rel="stylesheet" href="fonts/icomoon/style.css">
    <link rel="stylesheet" href="css/bootstrap.min.css">
    <link rel="stylesheet" href="css/magnific-popup.css">
    <link rel="stylesheet" href="css/jquery-ui.css">
    <link rel="stylesheet" href="css/owl.carousel.min.css">
    <link rel="stylesheet" href="css/owl.theme.default.min.css">
    <link rel="stylesheet" href="css/bootstrap-datepicker.css">
    <link rel="stylesheet" href="fonts/flaticon/font/flaticon.css">
    <link rel="stylesheet" href="css/aos.css">

    <link rel="stylesheet" href="css/style.css">
  </head>
  <body>

    <div class="site-wrap">

      <div class="site-mobile-menu">
        <div class="site-mobile-menu-header">
          <div class="site-mobile-menu-close mt-3">
            <span class="icon-close2 js-menu-toggle"></span>
          </div>
        </div>
        <div class="site-mobile-menu-body"></div>
      </div>

      <header class="site-navbar py-3" role="banner">
        <div class="container-fluid">
          <div class="row align-items-center">
            <div class="col-11 col-xl-2">
              <h1 class="mb-0"><a href="index.html" class="text-white h2 mb-0">TNE30024.<span
class="text-primary">Labs</span> </a></h1>
            </div>
            <div class="col-12 col-md-10 d-none d-xl-block">
              <nav class="site-navigation position-relative text-right" role="navigation">
                <ul class="site-menu js-clone-nav mx-auto d-none d-lg-block">
                  <li class="active"><a href="index.html">Lab 1</a></li>
                  <li><a href="https://rule201.tne30024">Main Lab Page</a></li>
                </ul>
              </nav>
            </div>
            <div class="d-inline-block d-xl-none ml-md-0 mr-auto py-3" style="position: relative; top: 3px;"><a href="#"
class="site-menu-toggle js-menu-toggle text-white"><span class="icon-menu h3"></span></a></div>
          </div>
        </div>
      </header>
```

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<div class="site-section site-hero inner">
  <div class="container">
    <div class="row align-items-center">
      <div class="col-md-10">
        <span class="d-block mb-3 caption" data-aos="fade-up">Self-Signed Certificate</span>
        <h1 class="d-block mb-4" data-aos="fade-up" data-aos-delay="100">Lab 1</h1>
      </div>
    </div>
  </div>
</div>

<div class="site-section">
  <div class="container">

    <div class="row align-items-center speaker">
      <div class="col-lg-6 mb-5 mb-lg-0" data-aos="fade" data-aos-delay="100">
        
      </div>
      <div class="col-lg-6 ml-auto">
        <h2 class="text-white mb-4 name" data-aos="fade-right" data-aos-delay="200">Secure Browsing</h2>
        <div class="bio pl-lg-5">
          <span class="text-uppercase text-primary d-block mb-3" data-aos="fade-right"
data-aos-delay="300">Self-Signed Certificate</span>
          <p class="mb-4" data-aos="fade-right" data-aos-delay="400">If working correctly, this page should only
be visible via https. The padlock symbol should be red because this page is protected by a self-signed certificate.
This forces you to accept the risks to view the page.</p>
        </div>
      </div>
    </div>

  </div>
</div>

<footer class="site-footer">
  <div class="container">
    <div class="row mb-5">
      <div class="col-md-4">
        <h2 class="footer-heading text-uppercase mb-4">About Site</h2>
        <p>Nothing special to see here - this page forms the root for the secure web server labs</p>
      </div>
      <div class="col-md-3 ml-auto">
        <h2 class="footer-heading text-uppercase mb-4">Secured Sites Links</h2>
        <ul class="list-unstyled">
          <li><a href="https://rule201.tne30024">Main lab Page</a></li>
        </ul>
      </div>
      <div class="col-md-4">
        <h2 class="footer-heading text-uppercase mb-4">Thanks</h2>
        <p>My thanks to the free <strong>workshop</strong> template downloaded from <a
href="https://colorlib.com/wp/template/workshop/">Colorlib</a></p>
      </div>
    </div>
    <div class="row">

      <div class="col-md-12 text-center">
        <div class="border-top pt-5">
          <p>
            <!-- Link back to Colorlib can't be removed. Template is licensed under CC BY 3.0. -->
            Copyright &copy; <script>document.write(new Date().getFullYear());</script> All rights reserved | This
template is made with <i class="icon-heart text-primary" aria-hidden="true"></i> by <a href="https://colorlib.com"
target="_blank">Colorlib</a>
            <!-- Link back to Colorlib can't be removed. Template is licensed under CC BY 3.0. -->
          </p>
        </div>
      </div>
    </div>
  </div>
</div>

<script src="js/jquery-3.3.1.min.js"></script>
<script src="js/jquery-migrate-3.0.1.min.js"></script>
<script src="js/jquery-ui.js"></script>
<script src="js/popper.min.js"></script>

```

```
<script src="js/bootstrap.min.js"></script>
<script src="js/owl.carousel.min.js"></script>
<script src="js/jquery.stellar.min.js"></script>
<script src="js/jquery.countdown.min.js"></script>
<script src="js/jquery.magnific-popup.min.js"></script>
<script src="js/bootstrap-datepicker.min.js"></script>
<script src="js/aos.js"></script>
```

```
<script src="js/main.js"></script>
```

```
</body>
```

```
</html>
```

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```

Checking Downloaded page contents

Downloaded page: PASS

Page contents correct: PASS

REMOVING DNS SERVER 136.186.230.103 FROM SYSTEM RESOLV.CONF

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LAB RESULT: PASSED