

TNE30024 - Laboratory - HTTPS: trusted.tne30024

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Date: 20240919\_1950

Last 5 Logons:

root	pts/21	10.1.28.41	Thu Sep 19 19:18	still logged in
root	pts/0	vpn246-244.cc.swin.edu	Thu Sep 19 07:31 - 13:50	(06:19)
root	pts/0	vpn246-240.cc.swin.edu	Wed Sep 18 19:57 - 00:07	(04:09)
root	pts/2	10.1.21.3	Thu Sep 5 18:30 - 20:29	(01:59)

RULE host Socket information

www	httpd	99717	3	tcp4	136.186.230.116:80	*:*
www	httpd	99717	4	tcp4	136.186.230.116:443	*:*
www	httpd	99716	3	tcp4	136.186.230.116:80	*:*
www	httpd	99716	4	tcp4	136.186.230.116:443	*:*
www	httpd	99715	3	tcp4	136.186.230.116:80	*:*
www	httpd	99715	4	tcp4	136.186.230.116:443	*:*
www	httpd	99714	3	tcp4	136.186.230.116:80	*:*
www	httpd	99714	4	tcp4	136.186.230.116:443	*:*
www	httpd	99713	3	tcp4	136.186.230.116:80	*:*
www	httpd	99713	4	tcp4	136.186.230.116:443	*:*
root	httpd	99712	3	tcp4	136.186.230.116:80	*:*
root	httpd	99712	4	tcp4	136.186.230.116:443	*:*
root	sshd	92646	3	tcp4	136.186.230.116:22	10.1.28.41:63155
root	sshd	91823	3	tcp4	136.186.230.116:22	10.1.28.41:63120
bind	named	77721	25	udp4	136.186.230.116:53	*:*
bind	named	77721	26	udp4	136.186.230.116:53	*:*
bind	named	77721	28	tcp4	136.186.230.116:53	*:*
bind	named	77721	29	tcp4	136.186.230.116:953	*:*
root	sshd	34141	3	tcp4	136.186.230.116:22	*:*

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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://trusted.tne30024 should fail due to not recognising root certificate
- 3) Attempt to access https://trusted.tne30024 should succeed with provided root certificate
- 4) Download page should match expected HTML

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CHECKING DNS CONFIGURATION

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Querying for (trusted.tne30024) using DNS server (136.186.230.116) - Correct answer (136.186.230.116)

Using domain server:

Name: 136.186.230.116

Address: 136.186.230.116#53

Aliases:

trusted.tne30024 is an alias for rule116.tne30024.

rule116.tne30024 has address 136.186.230.116

Test Result: PASSED

ADDING DNS SERVER 136.186.230.116 TO SYSTEM RESOLV.CONF

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DOWNLOAD PAGE NOT TRUSTING SELF-SIGNED CERTIFICATES

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HTTP QUERY https://trusted.tne30024

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--2024-09-19 19:50:53-- https://trusted.tne30024/

Resolving trusted.tne30024 (trusted.tne30024)... 136.186.230.116

Connecting to trusted.tne30024 (trusted.tne30024)|136.186.230.116|:443... connected.

ERROR: cannot verify trusted.tne30024's certificate, issued by 'CN=TNE30024 Root Authority,O=TNE30024 Authority,L=Hawthorn,ST=Vic,C=AU':

Unable to locally verify the issuer's authority.

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

DOWNLOAD PAGE USING PROVIDED ROOT CERTIFICATE

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HTTP QUERY https://trusted.tne30024

- Extra web download parameters (--ca-certificate=/rule/markings/tne30024\_root.crt)

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--2024-09-19 19:50:53-- https://trusted.tne30024/

Resolving trusted.tne30024 (trusted.tne30024)... 136.186.230.116  
Connecting to trusted.tne30024 (trusted.tne30024)|136.186.230.116|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 5888 (5.8K) [text/html]  
Saving to: '/tmp/wget\_save.FGNDunaq'

OK .....

100% 362M=0s

2024-09-19 19:50:53 (362 MB/s) - '/tmp/wget\_save.FGNDunaq' saved [5888/5888]

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Downloaded Page contents

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```
<!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 2</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>

      <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">Trusted Certificate</span>
              <h1 class="d-block mb-4" data-aos="fade-up" data-aos-delay="100">Lab 2</h1>
            </div>
          </div>
        </div>
      </div>
    </div>
  </body>
</html>
```

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    </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">Trusted 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 green IF you installed the certificate available from the main page
(<a href="http://rule201.tne30024">http://rule201.tne30024</a>) as a trusted certificate.</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>

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

```
</html>
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```

Checking Downloaded page contents

Downloaded page: PASS

Page contents correct: PASS

REMOVING DNS SERVER 136.186.230.116 FROM SYSTEM RESOLV.CONF

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LAB RESULT: PASSED