

TNE30024 - Laboratory - HTTPS: trusted.tne30024

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Date: 20240905\_1320

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	17703	3	tcp4	136.186.230.103:80	*:*
www	httpd	17703	4	tcp4	136.186.230.103:443	*:*
www	httpd	17702	3	tcp4	136.186.230.103:80	*:*
www	httpd	17702	4	tcp4	136.186.230.103:443	*:*
www	httpd	17701	3	tcp4	136.186.230.103:80	*:*
www	httpd	17701	4	tcp4	136.186.230.103:443	*:*
www	httpd	17700	3	tcp4	136.186.230.103:80	*:*
www	httpd	17700	4	tcp4	136.186.230.103:443	*:*
www	httpd	17699	3	tcp4	136.186.230.103:80	*:*
www	httpd	17699	4	tcp4	136.186.230.103:443	*:*
root	httpd	17698	3	tcp4	136.186.230.103:80	*:*
root	httpd	17698	4	tcp4	136.186.230.103:443	*:*
jbut	sshd	14408	3	tcp4	136.186.230.103:22	10.1.37.27:54571
root	sshd	14405	3	tcp4	136.186.230.103:22	10.1.37.27:54571
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	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	*:*

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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 (136.186.230.103) - Correct answer (136.186.230.103)

Using domain server:

Name: 136.186.230.103

Address: 136.186.230.103#53

Aliases:

trusted.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://trusted.tne30024

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--2024-09-05 13:20:10-- https://trusted.tne30024/

Resolving trusted.tne30024 (trusted.tne30024)... 136.186.230.103

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

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

Self-signed certificate encountered.

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)



```
<h1 class="d-block mb-4" data-aos="fade-up" data-aos-delay="100">Lab 2</h1>
</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>
</footer>

</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>
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<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