

TNE30024 - Laboratory 5C - HTTPS: chained.tne30024

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Date: 20250429_0155

Last 5 Logons:

student	pts/2	10.1.26.193	Tue Apr 29 00:28	still logged in
student	pts/0	10.1.55.48	Mon Apr 28 23:43	still logged in
student	pts/2	10.1.26.193	Mon Apr 28 19:23 - 23:13	(03:49)
student	pts/2	10.1.26.193	Mon Apr 28 19:12 - 19:23	(00:10)
student	pts/4	10.1.26.193	Sun Apr 20 10:19 - 12:34	(02:14)

RULE host Socket information

www	httpd	77137	3	tcp4	136.186.230.110:80	*:*
www	httpd	77137	4	tcp4	136.186.230.110:443	*:*
www	httpd	77136	3	tcp4	136.186.230.110:80	*:*
www	httpd	77136	4	tcp4	136.186.230.110:443	*:*
www	httpd	77135	3	tcp4	136.186.230.110:80	*:*
www	httpd	77135	4	tcp4	136.186.230.110:443	*:*
www	httpd	77134	3	tcp4	136.186.230.110:80	*:*
www	httpd	77134	4	tcp4	136.186.230.110:443	*:*
www	httpd	77133	3	tcp4	136.186.230.110:80	*:*
www	httpd	77133	4	tcp4	136.186.230.110:443	*:*
root	httpd	77132	3	tcp4	136.186.230.110:80	*:*
root	httpd	77132	4	tcp4	136.186.230.110:443	*:*
bind	named	61645	25	udp4	136.186.230.110:53	*:*
bind	named	61645	26	udp4	136.186.230.110:53	*:*
bind	named	61645	28	tcp4	136.186.230.110:53	*:*
bind	named	61645	29	tcp4	136.186.230.110:953	*:*
jbut	sshd	55172	3	tcp4	136.186.230.110:22	10.1.26.193:58661
root	sshd	55169	3	tcp4	136.186.230.110:22	10.1.26.193:58661
jbut	sshd	32232	3	tcp4	136.186.230.110:22	10.1.55.48:57495
root	sshd	32229	3	tcp4	136.186.230.110:22	10.1.55.48:57495
root	sshd	43417	3	tcp4	136.186.230.110:22	*:*

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

CHECKING DNS CONFIGURATION

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Querying for (chained.tne30024) using DNS server (136.186.230.110) - Correct answer (136.186.230.110)

Using domain server:

Name: 136.186.230.110

Address: 136.186.230.110#53

Aliases:

chained.tne30024 is an alias for rule110.tne30024.

rule110.tne30024 has address 136.186.230.110

Test Result: PASSED

ADDING DNS SERVER 136.186.230.110 TO SYSTEM RESOLV.CONF

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DOWNLOAD PAGE NOT TRUSTING SELF-SIGNED CERTIFICATES

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HTTP QUERY https://chained.tne30024

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--2025-04-29 01:55:50-- https://chained.tne30024/

Resolving chained.tne30024 (chained.tne30024)... 136.186.230.110

Connecting to chained.tne30024 (chained.tne30024)|136.186.230.110|:443... connected.

ERROR: cannot verify chained.tne30024's certificate, issued by 'CN=chained.rule110.caia.swin.edu.au,O=Internet Widgits Pty Ltd,ST=Some-State,C=AU':

Unable to locally verify the issuer's authority.

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

DOWNLOAD PAGE USING PROVIDED ROOT CERTIFICATE

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HTTP QUERY https://chained.tne30024

- Extra web download parameters (--ca-certificate=/rule/markings/tne30024_root.crt)

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```
--2025-04-29 01:55:50-- https://chained.tne30024/
Resolving chained.tne30024 (chained.tne30024)... 136.186.230.110
Connecting to chained.tne30024 (chained.tne30024)|136.186.230.110|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 6020 (5.9K) [text/html]
Saving to: '/tmp/wget_save.5ZjU9V3l'
```

OK

100% 227M=0s

2025-04-29 01:55:50 (227 MB/s) - '/tmp/wget_save.5ZjU9V3l' saved [6020/6020]

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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 3</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">Chained Certificate</span>
            </div>
          </div>
        </div>
      </div>
    </div>
  </body>
</html>
```

```

        <h1 class="d-block mb-4" data-aos="fade-up" data-aos-delay="100">Lab 3</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">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. The main difference with Lab
2 is that this lab should have a certificate signed by a certificate signed by the 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>

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

</body>
</html>
=====
```

Checking Downloaded page contents

Downloaded page: PASS
Page contents correct: PASS

REMOVING DNS SERVER 136.186.230.110 FROM SYSTEM RESOLV.CONF
=====

LAB RESULT: PASSED