

TNE30024 - Laboratory - HTTPS: chained.tne30024

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Date: 20240905_1348

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	22238	3	tcp4	136.186.230.103:80	*:*
www	httpd	22238	4	tcp4	136.186.230.103:443	*:*
www	httpd	22237	3	tcp4	136.186.230.103:80	*:*
www	httpd	22237	4	tcp4	136.186.230.103:443	*:*
www	httpd	22236	3	tcp4	136.186.230.103:80	*:*
www	httpd	22236	4	tcp4	136.186.230.103:443	*:*
www	httpd	22235	3	tcp4	136.186.230.103:80	*:*
www	httpd	22235	4	tcp4	136.186.230.103:443	*:*
www	httpd	22232	3	tcp4	136.186.230.103:80	*:*
www	httpd	22232	4	tcp4	136.186.230.103:443	*:*
www	httpd	22230	3	tcp4	136.186.230.103:80	*:*
www	httpd	22230	4	tcp4	136.186.230.103:443	*:*
www	httpd	22229	3	tcp4	136.186.230.103:80	*:*
www	httpd	22229	4	tcp4	136.186.230.103:443	*:*
www	httpd	22228	3	tcp4	136.186.230.103:80	*:*
www	httpd	22228	4	tcp4	136.186.230.103:443	*:*
www	httpd	22227	3	tcp4	136.186.230.103:80	*:*
www	httpd	22227	4	tcp4	136.186.230.103:443	*:*
www	httpd	22226	3	tcp4	136.186.230.103:80	*:*
www	httpd	22226	4	tcp4	136.186.230.103:443	*:*
root	httpd	22225	3	tcp4	136.186.230.103:80	*:*
root	httpd	22225	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	*:*
?	?	?	?	tcp4	136.186.230.103:443	10.1.37.27:54803
?	?	?	?	tcp4	136.186.230.103:443	10.1.37.27:54804
?	?	?	?	tcp4	136.186.230.103:443	10.1.37.27:54808
?	?	?	?	tcp4	136.186.230.103:443	10.1.37.27:54810
?	?	?	?	tcp4	136.186.230.103:443	10.1.37.27:54811
?	?	?	?	tcp4	136.186.230.103:443	10.1.37.27:54812
?	?	?	?	tcp4	136.186.230.103:443	10.1.37.27:54814
?	?	?	?	tcp4	136.186.230.103:443	10.1.37.27:54816
?	?	?	?	tcp4	136.186.230.103:443	10.1.37.27:54818
?	?	?	?	tcp4	136.186.230.103:443	10.1.37.27:54826
?	?	?	?	tcp4	136.186.230.103:19438	136.186.230.103:80
?	?	?	?	tcp4	136.186.230.103:19439	136.186.230.103:80

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 (136.186.230.103) - Correct answer (136.186.230.103)

Using domain server:

Name: 136.186.230.103

Address: 136.186.230.103#53

Aliases:

chained.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://chained.tne30024

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--2024-09-05 13:48:47-- https://chained.tne30024/

Resolving chained.tne30024 (chained.tne30024)... 136.186.230.103

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

ERROR: cannot verify chained.tne30024's certificate, issued by 'CN=intermediate.tne30024,OU=IT Department,O=Your Organization,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/marking/tne30024_root.crt)

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--2024-09-05 13:48:47-- https://chained.tne30024/

Resolving chained.tne30024 (chained.tne30024)... 136.186.230.103

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

HTTP request sent, awaiting response... 200 OK

Length: 6020 (5.9K) [text/html]

Saving to: '/tmp/wget_save.8wUEYQfp'

OK

100% 152M=0s

2024-09-05 13:48:47 (152 MB/s) - '/tmp/wget_save.8wUEYQfp' saved [6020/6020]

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Downloaded Page contents

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<!DOCTYPE html>

<html lang="en">

<head>

<title>TNE30024 — 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">

</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">TNE30024.<span


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</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

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REMOVING DNS SERVER 136.186.230.103 FROM SYSTEM RESOLV.CONF
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LAB RESULT: PASSED