

Command Injection

Impossible Command Injection Source

```
<?php

if( isset( $_POST[ 'Submit' ] ) ) {
    // Check Anti-CSRF token
    checkToken( $_REQUEST[ 'user_token' ], $_SESSION[ 'session_token' ], 'index.php' );

    // Get input
    $target = $_REQUEST[ 'ip' ];
    $target = stripslashes( $target );

    // Split the IP into 4 octets
    $octet = explode( ".", $target );

    // Check IF each octet is an integer
    if( ( is_numeric( $octet[0] ) ) && ( is_numeric( $octet[1] ) ) && ( is_numeric( $octet[2] ) ) && ( is_numeric( $octet[3] ) ) && ( sizeof( $octet ) == 4 ) ) {
        // If all 4 octets are int's put the IP back together.
        $target = $octet[0] . '.' . $octet[1] . '.' . $octet[2] . '.' . $octet[3];

        // Determine OS and execute the ping command.
        if( striistr( php_uname( 's' ), 'Windows NT' ) ) {
            // Windows
            $cmd = shell_exec( 'ping ' . $target );
        }
        else {
            // *nix
            $cmd = shell_exec( 'ping -c 4 ' . $target );
        }

        // Feedback for the end user
        echo "<pre>{$cmd}</pre>";
    }
    else {
        // Ops. Let the user know theres a mistake
        echo "<pre>ERROR: You have entered an invalid IP.</pre>";
    }
}

// Generate Anti-CSRF token
generateSessionToken();

?>
```

High Command Injection Source

```
<?php

if( isset( $_POST[ 'Submit' ] ) ) {
    // Get input
    $target = trim( $_REQUEST[ 'ip' ] );

    // Set blacklist
    $substitutions = array(
        '&' => '',
        ';' => '',
        '|' => '',
        '_' => '',
        '$' => '',
        '(' => '',
        ')' => '',
        '~' => '',
        '||' => '',
    );

    // Remove any of the characters in the array (blacklist).
    $target = str_replace( array_keys( $substitutions ), $substitutions, $target );

    // Determine OS and execute the ping command.
    if( striistr( php_uname( 's' ), 'Windows NT' ) ) {
        // Windows
        $cmd = shell_exec( 'ping ' . $target );
    }
    else {
        // *nix
        $cmd = shell_exec( 'ping -c 4 ' . $target );
    }

    // Feedback for the end user
    echo "<pre>{$cmd}</pre>";
}

?>
```

Medium Command Injection Source

```
<?php

if( isset( $_POST[ 'Submit' ] ) ) {
    // Get input
    $target = $_REQUEST[ 'ip' ];

    // Set blacklist
    $substitutions = array(
```

```
        '&&' => '' ,
        ';'  => '' ,
    );

    // Remove any of the characters in the array (blacklist).
    $target = str_replace( array_keys( $substitutions ), $substitutions, $target );

    // Determine OS and execute the ping command.
    if( striistr( php_uname( 's' ), 'Windows NT' ) ) {
        // Windows
        $cmd = shell_exec( 'ping ' . $target );
    }
    else {
        // *nix
        $cmd = shell_exec( 'ping -c 4 ' . $target );
    }

    // Feedback for the end user
    echo "<pre>{$cmd}</pre>";
}

?>
```

Low Command Injection Source

```
<?php

if( isset( $_POST[ 'Submit' ] ) ) {
    // Get input
    $target = $_REQUEST[ 'ip' ];

    // Determine OS and execute the ping command.
    if( striistr( php_uname( 's' ), 'Windows NT' ) ) {
        // Windows
        $cmd = shell_exec( 'ping ' . $target );
    }
    else {
        // *nix
        $cmd = shell_exec( 'ping -c 4 ' . $target );
    }

    // Feedback for the end user
    echo "<pre>{$cmd}</pre>";
}

?>
```

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