



Confluence Arbitrary File Write via Path Traversal (CVE-2019-3398)

Recently a new critical vulnerability in Atlassian Confluence was discovered. Exploiting the vulnerability may allow attackers to write files into arbitrary locations in the server file system.

The vulnerability root cause located in the download all attachments functionality of Confluence, which allows the user to download a zip file containing all the files attached to the Confluence document. During the creation of the zip file, the application iterates through all the attachments and writes them to a temporary directory and then zips them.

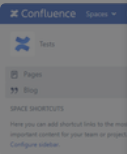


Figure 1: Document with attachments

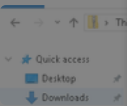


Figure 2: Download all attachments

When the user clicks on the "Download all attachments" button, the application triggers the download all attachments function. In order to download the attachments, the application creates a temporary directory and writes all the attachments to it. When the download all attachments function is triggered, Confluence will write the attached files outside of the designated temporary folder, which allows the attacker to write files anywhere in the file system of the server. This could also lead to remote code execution by writing the uploaded file inside a web accessible directory.

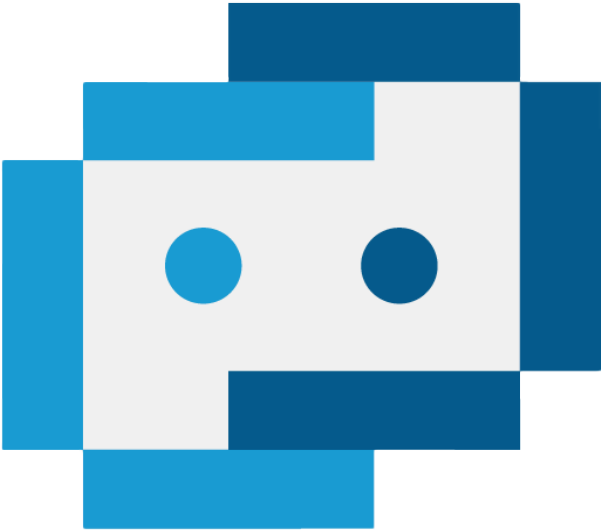


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Figure 6: Exploit blocked with attack signature 2000007016

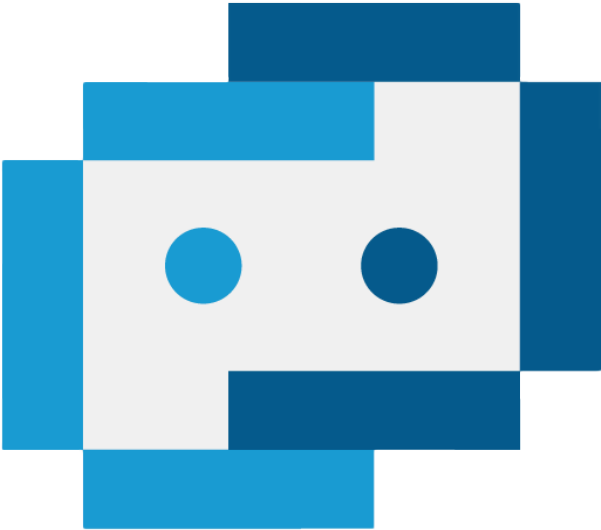
Detected Keyword	filename=../../../../Confluence/confluence/pages/shell.jsp
Attack Signature	ID 200000190 Name Directory Traversal attempt (parameter)
Context	Parameter (detected in Query String)
Parameter Level	Global
Actual Parameter Name	filename
Wildcard Parameter Name	*
Parameter Value	../../../../Confluence/confluence/pages/shell.jsp
Applied Blocking Settings	<div>BlockAlarmLearn</div>

Figure 7: Exploit blocked with attack signature 200000190

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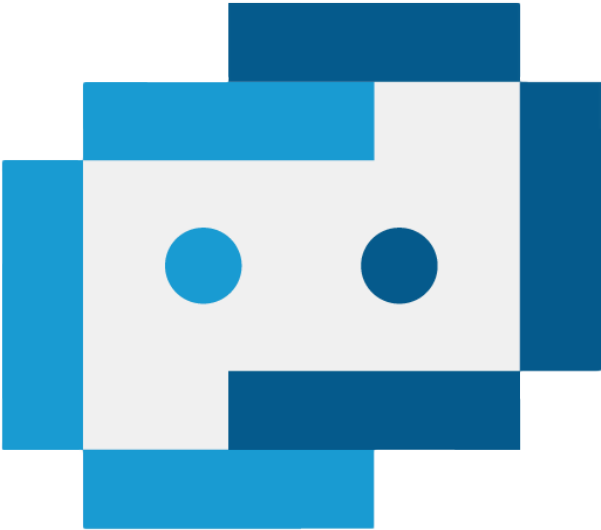
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