

Issues » Matrix URI parameters can expose private assets

Issue:	SI-63
Date:	Jun 14, 2022, 1:45:00 PM
Severity:	Moderate
Requires Admin Access:	No
Fix Version:	22.06, 22.03.2, 21.06.9, 5.3.8.12
Credit:	Fortinet (https://www.fortinet.com/)
Description:	<p>Some Java Application frameworks, including those used by Spring or Tomcat, allow the use of "matrix parameters" — URI parameters separated by semicolons. Through precise semicolon placement in a URI, it is possible to exploit this feature to avoid dotCMS's path-based XSS prevention/require login filters and access restricted resources.</p> <p>For example, the semicolon in the URL below would reveal to anyone a text file ordinarily only visible to signed-in users:</p> <p><code>https://demo.dotcms.com/html;/js/dojo/README-Building-dojo-for-dotCMS.txt</code></p> <p>The ability to circumvent these filters can be chained with other code to exploit dotCMS using XSS attacks.</p>



Mitigation:	<h2>Upgrade</h2> <p>dotCMS recommends upgrading to one of the versions of dotCMS patched against this vulnerability, which include the following, as well as subsequent versions:</p> <ul style="list-style-type: none"> • Agile: <ul style="list-style-type: none"> ◦ 22.06+ • LTS: <ul style="list-style-type: none"> ◦ 22.03.2+ ◦ 21.06.9+ ◦ 5.3.8.12+ <h2>WAF Rule</h2> <p>It is possible to create a WAF rule that disallows ; (semi-colons) specifically in the the URI portion of a request URL. This would effectively block any exploit of the vulnerability.</p> <h2>Hotfix Plugin</h2> <p>dotCMS 5.1.6+</p> <p>The following OSGi plugin, designed to work with versions dotCMS 5.1.6 and later, can be used to mitigate the issue in running dotCMS instances:</p> <ul style="list-style-type: none"> • https://github.com/dotCMS/patches-hotfixes/tree/master/com.dotcms.security.matrixparams <h2>dotCMS Cloud</h2> <p>dotCMS has already applied mitigations for this issue to all dotCMS Cloud customers; no action is needed.</p>
References	<ul style="list-style-type: none"> • GitHub Issue Link • MatrixParameter Security Interceptor hotfix plugin • CVE Reference CVE-2022-35740

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