Browse... No file selected. Upload

The web application allows users to upload files. If we are able to identify which directory files are uploaded to, then upload a malicious script file to web app, we could achieve remote code execution on the server through that upload script file

Browse... No file selected.

Invalid File. Please try again

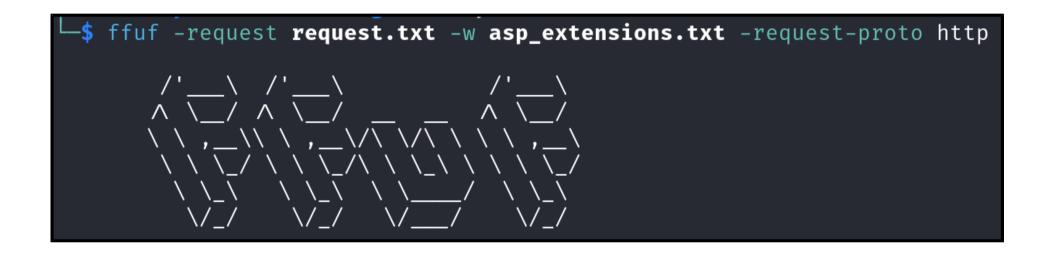
A complication in this case is the fact that we don't know which file extensions are permitted for upload by the web application, so we'll need to find a way to bypass the file upload filter

```
Request Response

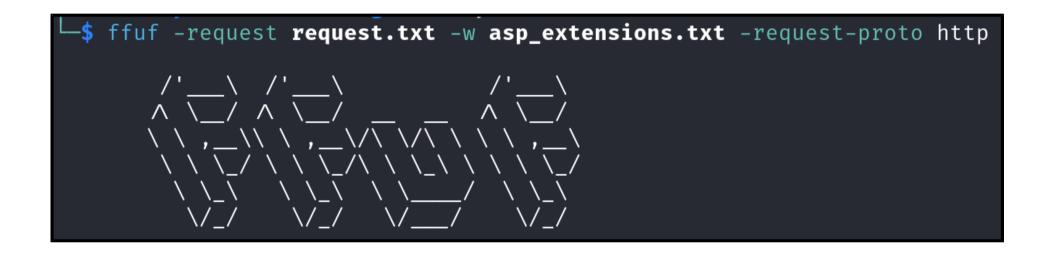
Pretty Raw Hex

1 POST /zoc.aspx HTTP/1.1
2 Host: 192.168.69.7
3 Content-Length: 683
```

One method of bypassing file extension filters is to record the request in BurpSuite, and then save the request to a file



Which is then used by the Ffuf program for fuzzing in an attempt to ID valid file extensions



Which is then used by the Ffuf program for fuzzing in an attempt to ID valid file extensions

```
vbhtml[Status: 200, Size: 1333,shtml[Status: 200, Size: 1333,config[Status: 200, Size: 1328,vbhtm[Status: 200, Size: 1333,
```

If we can identify a valid script file extension for upload, we can then attempt the file upload attack

Privilege Escalation Selmpersonate Privilege

Nombre de privilegio

SeAssignPrimaryTokenPrivilege
SeIncreaseQuotaPrivilege
SeAuditPrivilege
SeChangeNotifyPrivilege
SeImpersonatePrivilege
SeCreateGlobalPrivilege

The Selmpersonate privilege is a feature which allows a user to perform commands in the context of other users

Privilege Escalation Selmpersonate Privilege

```
c:\windows\system32\inetsrv>whoami
whoami
iis apppool\defaultapppool
```

This privilege is typically associated with service accounts, like IIS, SQL Server, and with Administrator accounts

Privilege Escalation Selmpersonate Privilege

Nombre de privilegio

SeAssignPrimaryTokenPrivilege
SeIncreaseQuotaPrivilege
SeAuditPrivilege
SeChangeNotifyPrivilege
SeImpersonatePrivilege
SeCreateGlobalPrivilege

Using Selmpersonate, attackers can elevate privileges to SYSTEM or Administrator level, either through Token Theft and / or Named Pipes

Selmpersonate – Potato Exploit

The Potato-familiy of Windows exploits all leverage the Selmpersonate privilege in different ways to achieve elevated access on Windows targets



Potato Exploit – JuicyPotato

Which Potato exploit to use on a target largely depends on the version of Windows being used. In this case, we'll be using the Juicy Potato variant

