

<https://github.com/dthomsen116/SEC-335/wiki/Assignment-3.1---PowerShell-and-DNS>

Deliverable 1. Provide a screenshot similar to the one below showing the program run against the foster subnet. The simplistic run shown here, just increments the octet in the 192.168.3.0/24 from 1 to 254.

The screenshot shows a Windows PowerShell console window with the title "Windows PowerShell ISE". The menu bar includes File, Edit, View, Tools, Debug, Add-ons, and Help. The toolbar contains icons for file operations and execution. The console window has a tab titled "dns-resolver.ps1" and a command prompt showing the execution of a PowerShell script.

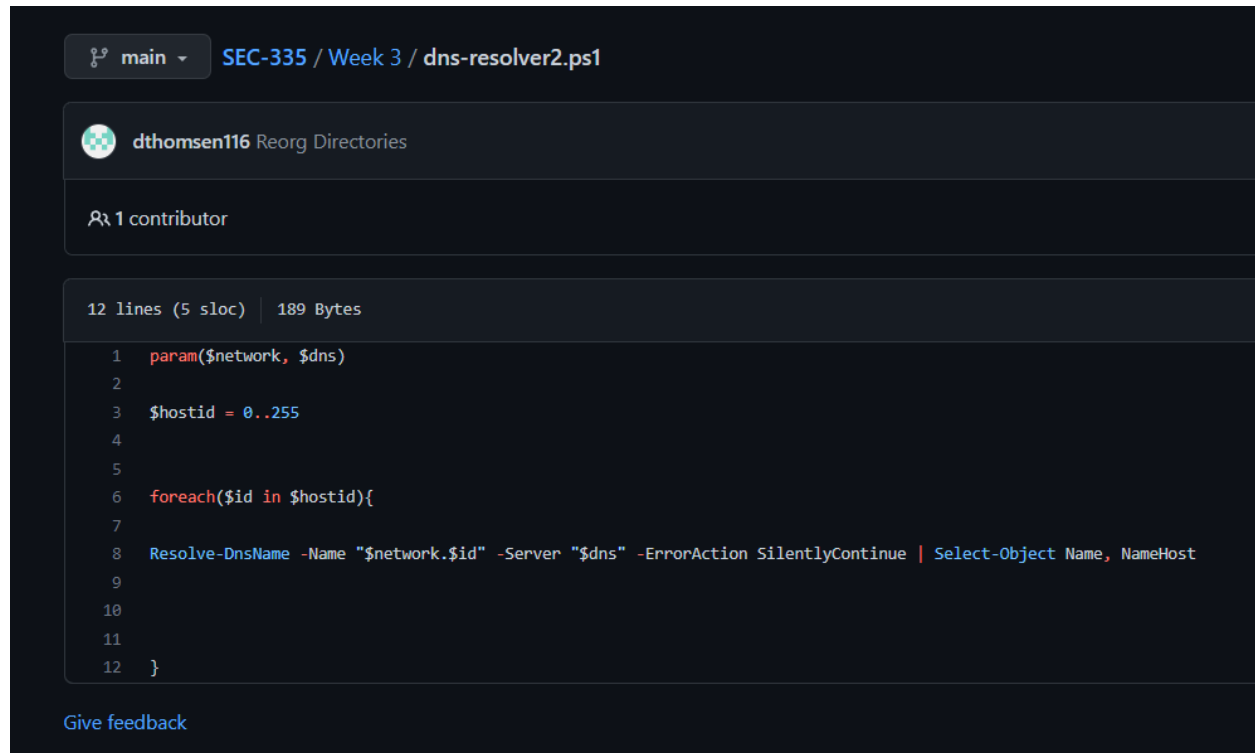
```
1 param($network, $dns)
2
3 $Hostid = 0..255
4
5
6 foreach($id in $Hostid){
7
8     Resolve-DnsName -Name "$network.$id" -Server "$dns" -ErrorAction SilentlyContinue | Select-Object Name, NameHost
9
10
11
12 }
```

The output of the script is displayed below the command prompt, showing a list of DNS records for the IP address 192.168.3.192. The output is formatted as a table with columns: Name, Type, TTL, Section, and NameHost.

```
PS C:\Users\david-admin\.\Desktop\dns-resolver2.ps1 192.168.3 192.168.4.5
```

Name	Type	TTL	Section	NameHost
100.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-00.cyber.local
101.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-01.cyber.local
102.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-02.cyber.local
103.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-03.cyber.local
104.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-04.cyber.local
105.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-05.cyber.local
106.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-06.cyber.local
107.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-07.cyber.local
108.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-08.cyber.local
109.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-09.cyber.local
110.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-10.cyber.local
111.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-11.cyber.local
112.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-12.cyber.local
113.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-13.cyber.local
114.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-14.cyber.local
115.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-15.cyber.local
116.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-16.cyber.local
117.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-17.cyber.local
118.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-18.cyber.local
119.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-19.cyber.local
120.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-20.cyber.local
121.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-21.cyber.local
122.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-22.cyber.local
123.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-23.cyber.local
124.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-24.cyber.local
125.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-25.cyber.local
126.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-26.cyber.local
127.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-27.cyber.local
128.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-28.cyber.local
129.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-29.cyber.local
130.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-30.cyber.local
131.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-31.cyber.local
132.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-32.cyber.local
133.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-33.cyber.local
134.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-34.cyber.local
135.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-35.cyber.local
136.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-36.cyber.local
137.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-37.cyber.local
138.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-38.cyber.local
139.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-39.cyber.local
140.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-40.cyber.local
141.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-41.cyber.local
142.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-42.cyber.local
143.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-43.cyber.local
144.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-44.cyber.local
145.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-45.cyber.local
146.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-46.cyber.local
147.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-47.cyber.local
148.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-48.cyber.local
149.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-49.cyber.local
150.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-50.cyber.local
151.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-51.cyber.local
152.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-52.cyber.local
153.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-53.cyber.local
154.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-54.cyber.local
155.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-55.cyber.local
156.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-56.cyber.local
157.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-57.cyber.local
158.3.168.192.in-addr.arpa	PTR	900	Answer	FOSTER202-58.cyber.local
159.3.168.192.in-addr				

Deliverable 2. Provide a screenshot similar to the one below that shows your directory structure and the source code of your powershell dns resolver. Alternatively, you can provide a link to your one liner in your github documentation.



The screenshot shows a GitHub repository page for the file `SEC-335 / Week 3 / dns-resolver2.ps1`. The repository is owned by `dthomsen116` and is titled `Reorg Directories`. It has 1 contributor. The file is 12 lines long (5 SLOC) and 189 bytes. The code is a PowerShell script that defines a function `param($network, $dns)` and a variable `$hostid = 0..255`. It then uses a `foreach` loop to iterate over `$hostid` and calls `Resolve-DnsName` with the following command: `Resolve-DnsName -Name "$network.$id" -Server "$dns" -ErrorAction SilentlyContinue | Select-Object Name, NameHost`. The script ends with a closing brace `}`. A `Give feedback` link is visible at the bottom.

```
1 param($network, $dns)
2
3 $hostid = 0..255
4
5
6 foreach($id in $hostid){
7
8   Resolve-DnsName -Name "$network.$id" -Server "$dns" -ErrorAction SilentlyContinue | Select-Object Name, NameHost
9
10
11
12 }
```

[Give feedback](#)