

# Configuring Backup and Recovery Functions (4e)

Fundamentals of Information Systems Security, Fourth Edition - Lab 09

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Time on Task:

3 hours, 31 minutes

Progress:

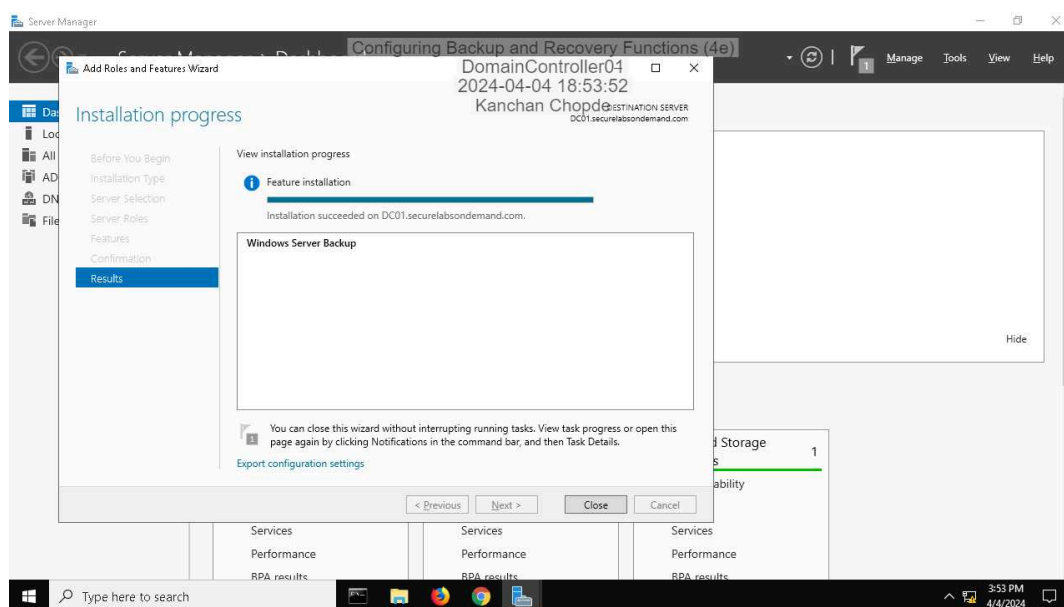
100%

Report Generated: Monday, April 15, 2024 at 9:02 AM

## Section 1: Hands-On Demonstration

### Part 1: Install Windows Server Backup

11. **Make a screen capture** showing the **completed Windows Server Backup** feature installation.

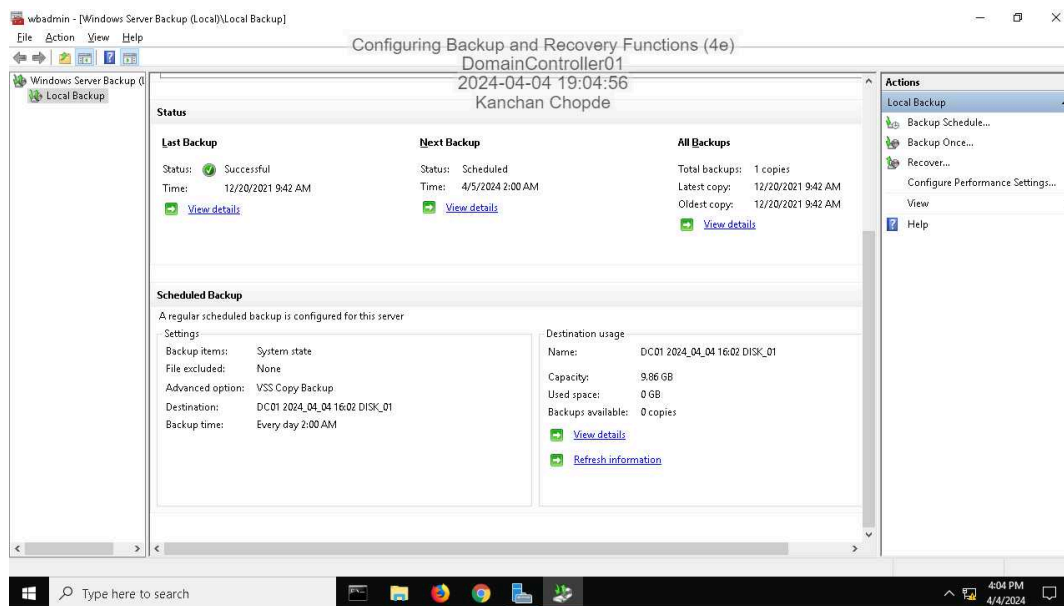


### Part 2: Configure a System State Backup

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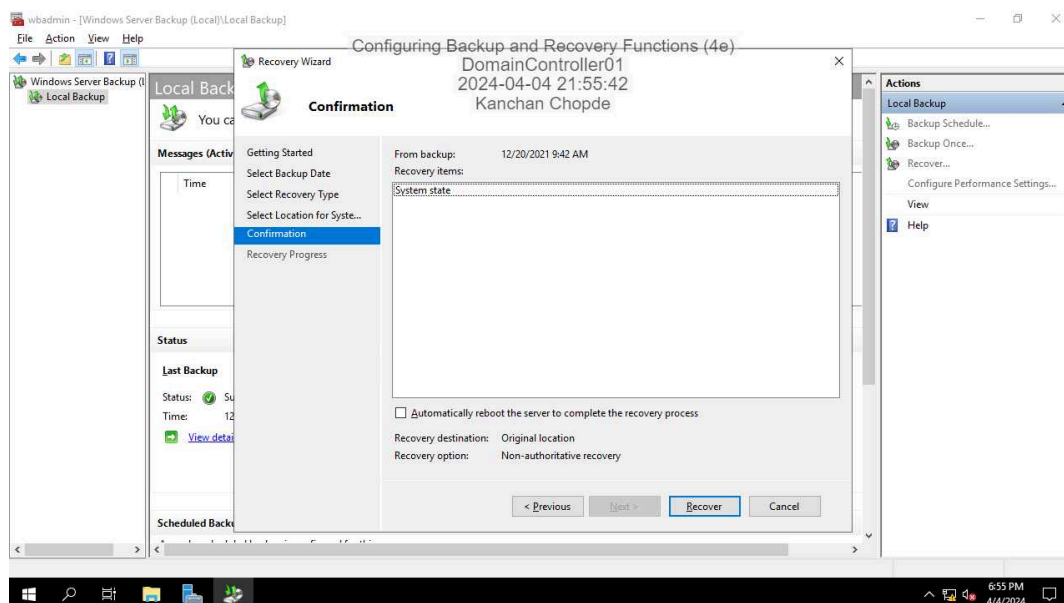
## Fundamentals of Information Systems Security, Fourth Edition - Lab 09

15. Make a screen capture showing the **Scheduled Backup** settings, including the destination and backup time.



### Part 3: Restore from a System State Backup

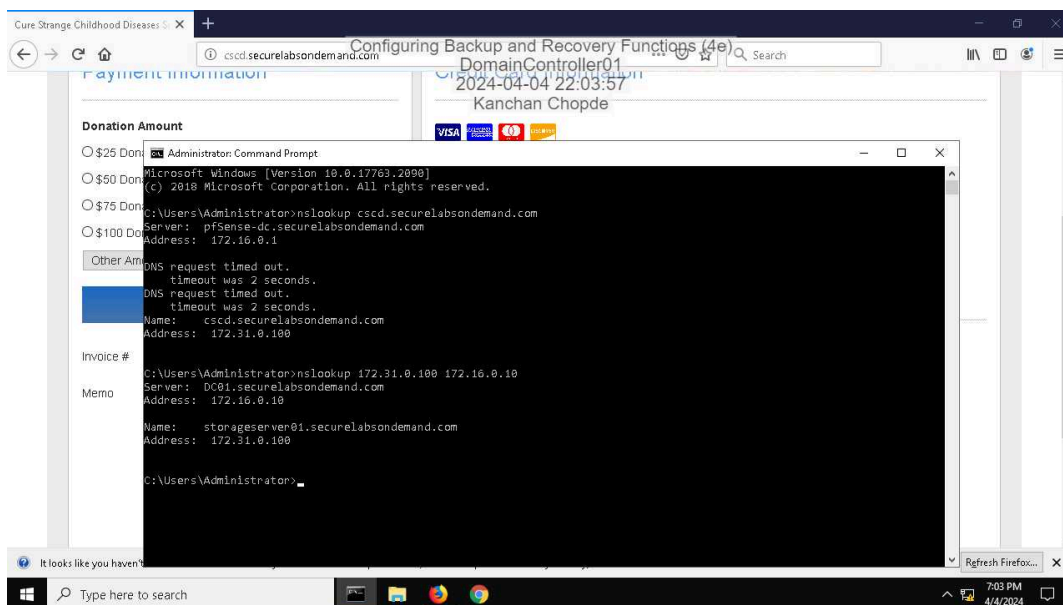
15. Make a screen capture showing the **Recovery Wizard Confirmation** page.



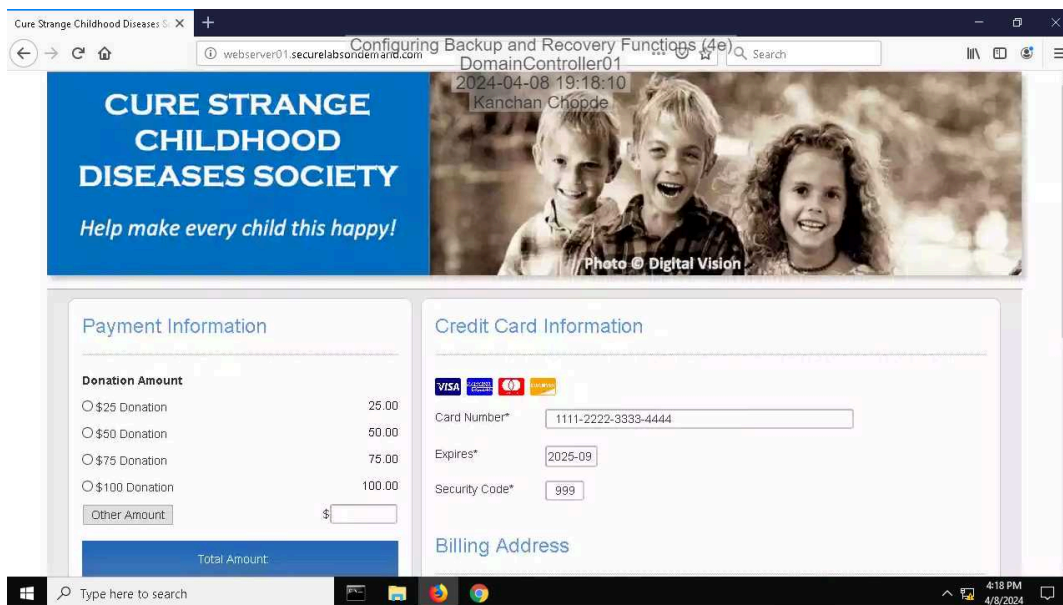
## Section 2: Applied Learning

### Part 1: Configure an NFS Share

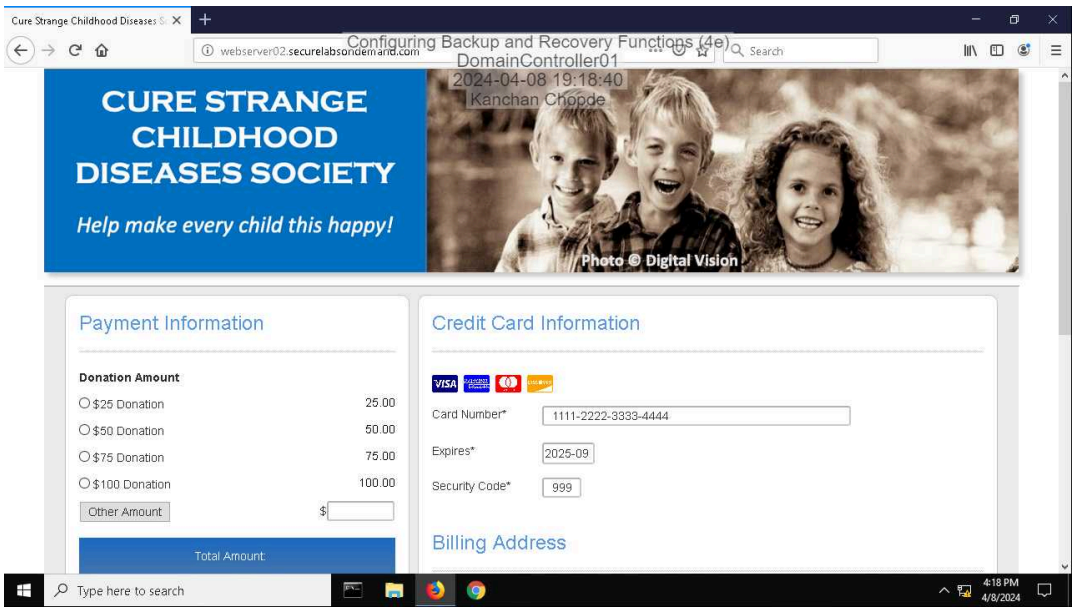
8. Make a screen capture showing the results of the reverse DNS query.



34. Make a screen capture showing the updated webserver01 home page.

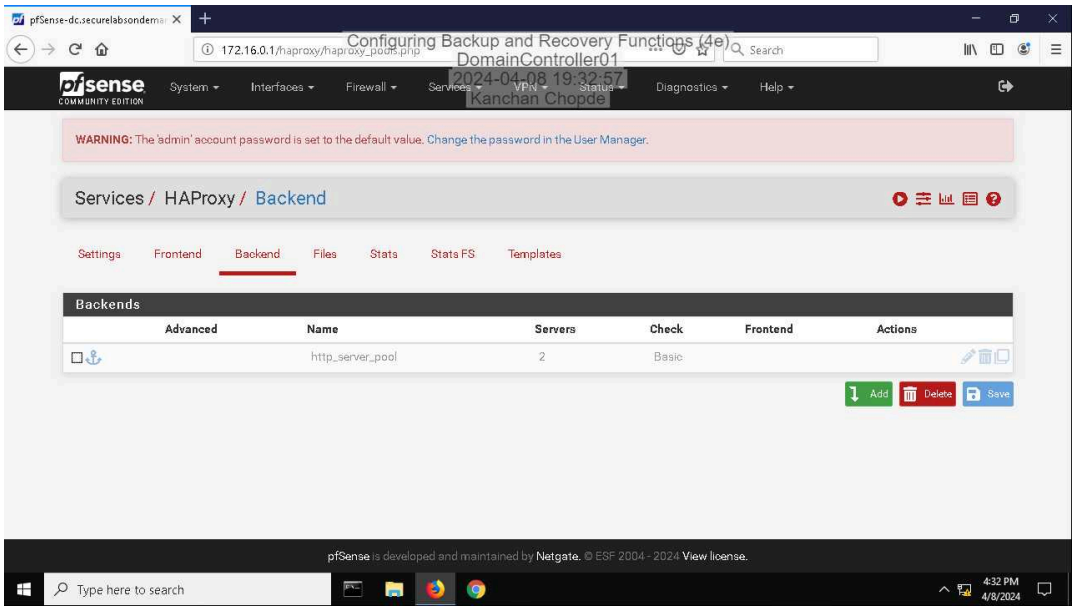


36. Make a screen capture showing the updated webserver02 home page.

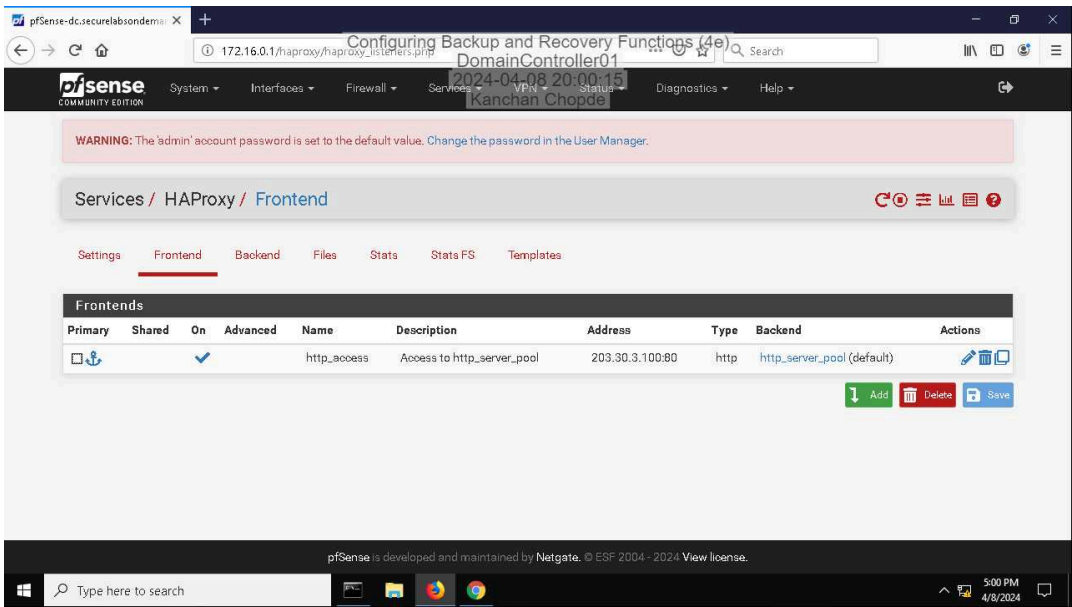


Part 2: Configure Load Balancing

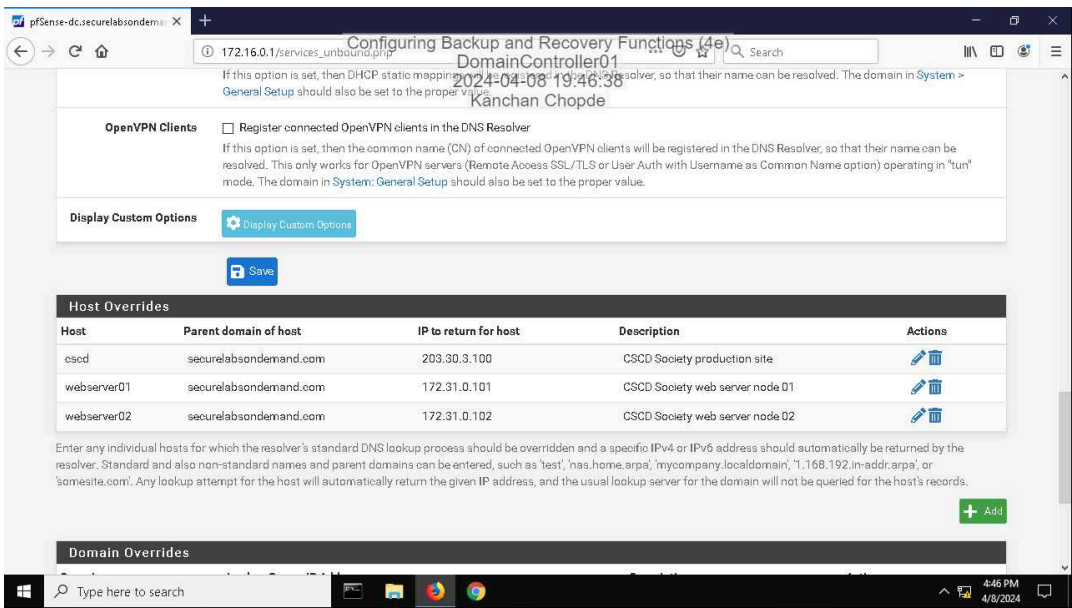
15. Make a screen capture showing the http\_server\_pool backend.



22. Make a screen capture showing the `http_access` frontend.



35. Make a screen capture showing the new Host Overrides entry for `cscd.securelabsondemand.com`.

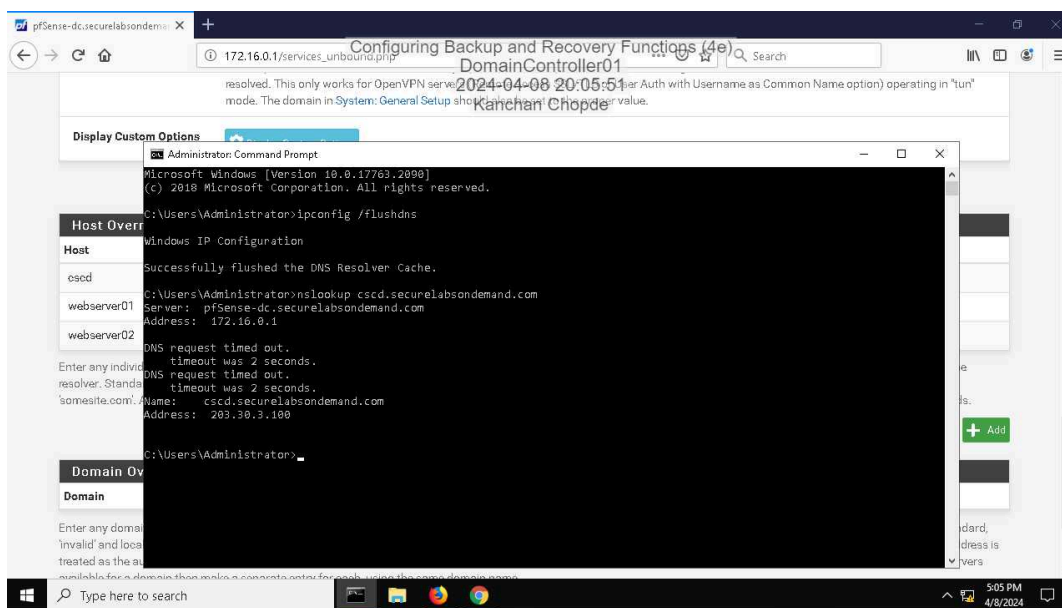


Part 3: Verify Load Balancing

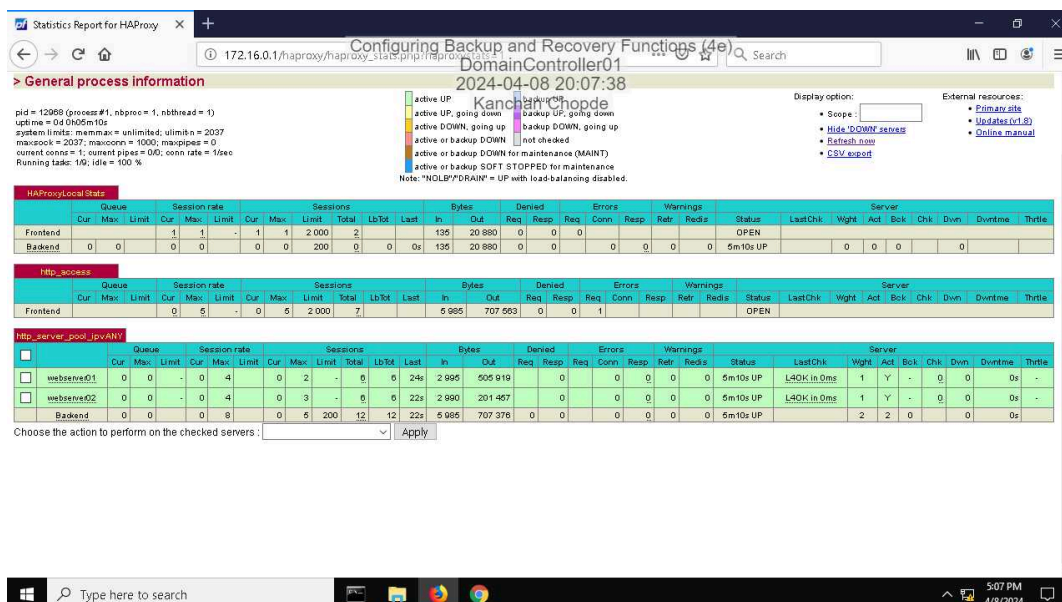
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4. Make a screen capture showing the result of your DNS query for **cscd.securelabsondemand.com**.



11. Make a screen capture showing the **Statistics Report** with a value of at least 1 in the **Sessions > Total** column of the **http\_server\_pool\_ipvANY** box, for both **webserver01** and **webserver02**.

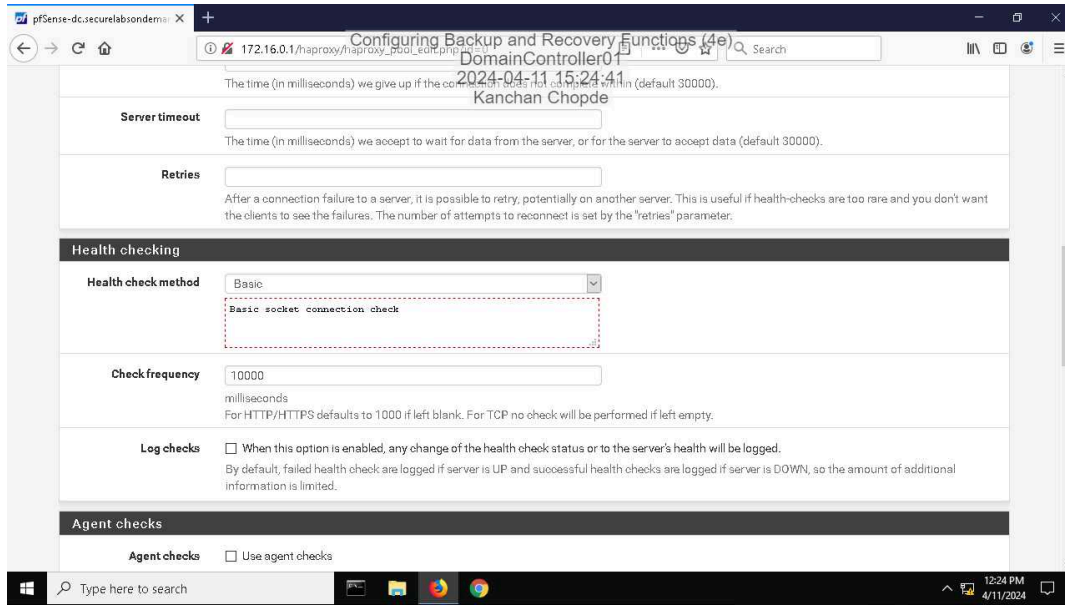




## Section 3: Challenge and Analysis

### Part 1: Add Failover Functionality

Make a screen capture showing the updated Check Frequency value in the Health checking module.



### Part 2: Validate Failover Functionality

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Make a screen capture showing the HAProxy Statistics Report with a host in a DOWN state, as well as the UP host having more total sessions (http\_server\_pool\_ipvANY, Sessions > Total) than the DOWN host.

Statistics Report for HAProxy

172.16.0.1/haproxy/haproxy\_stats.php?haproxystats=1#HAProxyLocalStats/Frontend

2024-04-11 15:29:33

DomainController01

Kanchan Chopra

active UP  
active UP, going down  
active DOWN, going up  
active or backup DOWN  
active or backup DOWN for maintenance (MAINT)  
active or backup SOFT STOPPED for maintenance  
Note: "WOLFP" "RAVN" = UP with load-balancing disabled.

Display options:  
• Scope:  
• Hide "DOWN" servers  
• Refresh now  
• CSV export

External resources:  
• Primar site  
• Updates (v1.8)  
• Online manual

> General process information

pid = 2402 (process #1, nbproc = 1, nbthread = 1)  
uptime = 0d 0h 07m 50s  
system limits: memmax = unlimited; ulimits = 2037  
maxsock = 2037; maxconn = 1000; maxpipes = 0  
current conn = 1; current pipes = 0; conn rate = 1/sec  
Running task: 3/0, idle = 98 %

**HAProxyLocalStats**

|          | Queue |     |       | Session rate |     |       | Sessions |     |       |       | Bytes |      | Denied |        | Errors |      | Warnings |      | Status | Server |      |       |         |      |     |     |     |      |         |        |  |
|----------|-------|-----|-------|--------------|-----|-------|----------|-----|-------|-------|-------|------|--------|--------|--------|------|----------|------|--------|--------|------|-------|---------|------|-----|-----|-----|------|---------|--------|--|
|          | Cur   | Max | Limit | Cur          | Max | Limit | Cur      | Max | Limit | Total | LbTot | Last | In     | Out    | Req    | Resp | Req      | Conn |        | Resp   | Refr | Redis | LastChk | Wght | Act | Bck | Chk | Dvsn | Dvntime | Thrtie |  |
| Frontend | 1     | 1   | -     | 1            | 1   | -     | 2        | 000 | 3     |       |       |      | 270    | 41 958 | 0      | 0    | 0        | 0    | 0      | 0      | 0    | 0     | 7m50s   | UP   |     | 0   | 0   | 0    | 0       |        |  |
| Backend  | 0     | 0   | -     | 0            | 0   | -     | 0        | 0   | 200   | 0     | 0     | 0s   | 270    | 41 958 | 0      | 0    | 0        | 0    | 0      | 0      | 0    | 0     |         |      |     |     |     |      |         |        |  |

**Http\_access**

|          | Queue |     |       | Session rate |     |       | Sessions |     |       |       | Bytes |      | Denied |       | Errors |      | Warnings |      | Status | Server |      |       |         |      |     |     |     |      |         |        |  |
|----------|-------|-----|-------|--------------|-----|-------|----------|-----|-------|-------|-------|------|--------|-------|--------|------|----------|------|--------|--------|------|-------|---------|------|-----|-----|-----|------|---------|--------|--|
|          | Cur   | Max | Limit | Cur          | Max | Limit | Cur      | Max | Limit | Total | LbTot | Last | In     | Out   | Req    | Resp | Req      | Conn |        | Resp   | Refr | Redis | LastChk | Wght | Act | Bck | Chk | Dvsn | Dvntime | Thrtie |  |
| Frontend | 0     | 2   | -     | 0            | 2   | -     | 0        | 2   | 2 000 | 6     |       |      | 7 228  | 3 218 | 0      | 0    | 4        | 0    | 0      | 0      | 0    | 0     | OPEN    |      |     |     |     |      |         |        |  |

**http\_server\_pool\_ipvANY**

|                                     | Queue |     |       | Session rate |     |       | Sessions |     |       |       | Bytes |      | Denied |       | Errors |      | Warnings |      | Status | Server |      |       |         |      |     |              |     |      |         |        |    |      |   |
|-------------------------------------|-------|-----|-------|--------------|-----|-------|----------|-----|-------|-------|-------|------|--------|-------|--------|------|----------|------|--------|--------|------|-------|---------|------|-----|--------------|-----|------|---------|--------|----|------|---|
|                                     | Cur   | Max | Limit | Cur          | Max | Limit | Cur      | Max | Limit | Total | LbTot | Last | In     | Out   | Req    | Resp | Req      | Conn |        | Resp   | Refr | Redis | LastChk | Wght | Act | Bck          | Chk | Dvsn | Dvntime | Thrtie |    |      |   |
| <input type="checkbox"/> webserve01 | 0     | 0   | -     | 0            | 0   | -     | 0        | 0   | -     | 0     | 0     | ?    | 0      | 0     | 0      | 0    | 0        | 0    | 0      | 0      | 0    | 0     | 3m5s    | DOWN | *   | L4CON in 0ms | 1   | Y    | -       | 3      | 1  | 3m5s | - |
| <input type="checkbox"/> webserve02 | 0     | 0   | -     | 0            | 5   | -     | 0        | 1   | -     | 13    | 13    | 14s  | 7 228  | 2 470 | 0      | 0    | 0        | 0    | 0      | 0      | 0    | 0     | 7m50s   | UP   | *   | L4OK in 0ms  | 1   | Y    | -       | 0      | 0  | 0s   | - |
| Backend                             | 0     | 0   | -     | 0            | 5   | -     | 0        | 1   | 200   | 13    | 13    | 14s  | 7 228  | 2 470 | 0      | 0    | 0        | 0    | 0      | 0      | 0    | 0     | 7m50s   | UP   |     |              | 1   | 1    | 0       | 0      | 0s |      |   |

Choose the action to perform on the checked servers:  Apply

172.16.0.1/haproxy/haproxy\_stats.php?haproxystats=1#HAProxyLocalStats/Frontend

Type here to search

12:29 PM  
4/11/2024