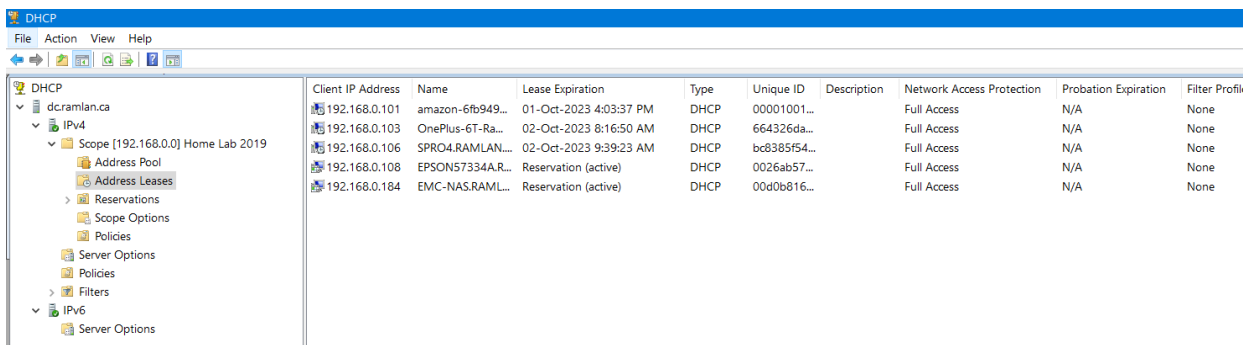
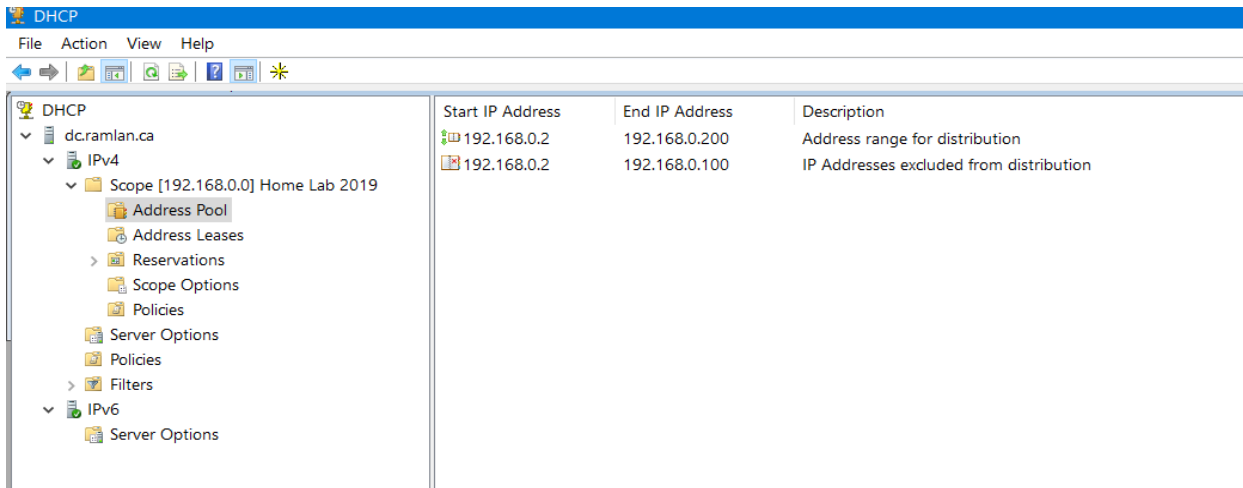
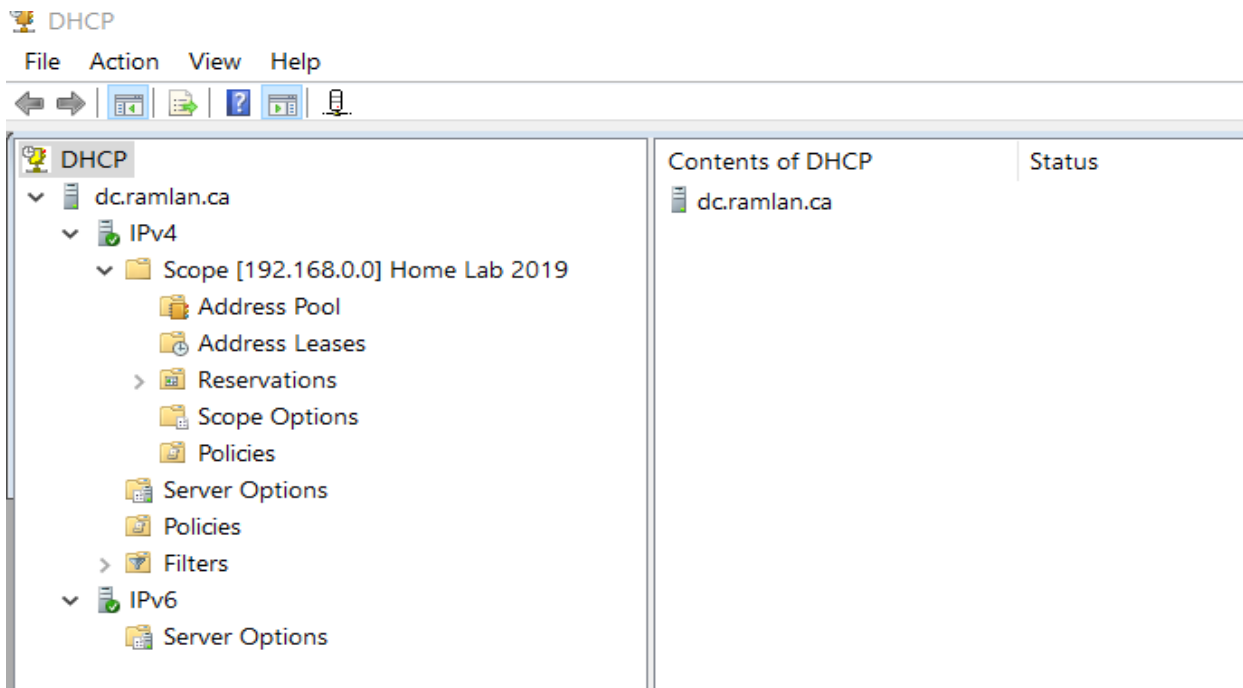


DHCP BACKUP WINDOWS SERVER 2019

I am going to backup DHCP server from Primary Domain Controller. The reason for the backup is hardware issue. I am going to demote Primary DC and use DC1 as the primary domain controller.

Below is screen shot from Primary DC. I took the screen shot for comparison after restore is done.



DHCP

File Action View Help

The screenshot shows the DHCP console interface. On the left, a tree view is expanded to show the 'Reservations' folder under the scope '[192.168.0.0] Home Lab 2019'. Two reservations are listed: [192.168.0.108] EPSON57334A.RAMLAN.CA and [192.168.0.184] EMC-NAS.RAMLAN.CA. On the right, the 'Reservations' pane displays these two entries in a list format.

DHCP

File Action View Help

The screenshot shows the DHCP console interface with the 'Scope Options' pane selected. The left tree view is expanded to the 'Scope Options' folder. The right pane displays a table of DHCP options:

| Option Name | Vendor | Value | Policy Name |
|---------------------|----------|---------------------------|-------------|
| 003 Router | Standard | 192.168.0.1 | None |
| 006 DNS Servers | Standard | 192.168.0.2, 192.168.0.22 | None |
| 015 DNS Domain Name | Standard | RAMLAN.CA | None |

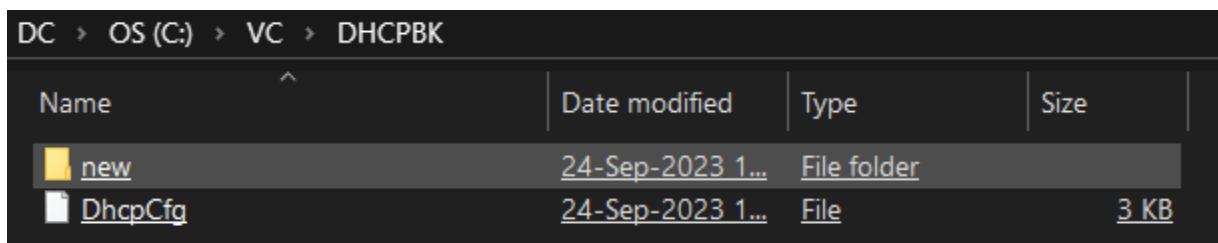
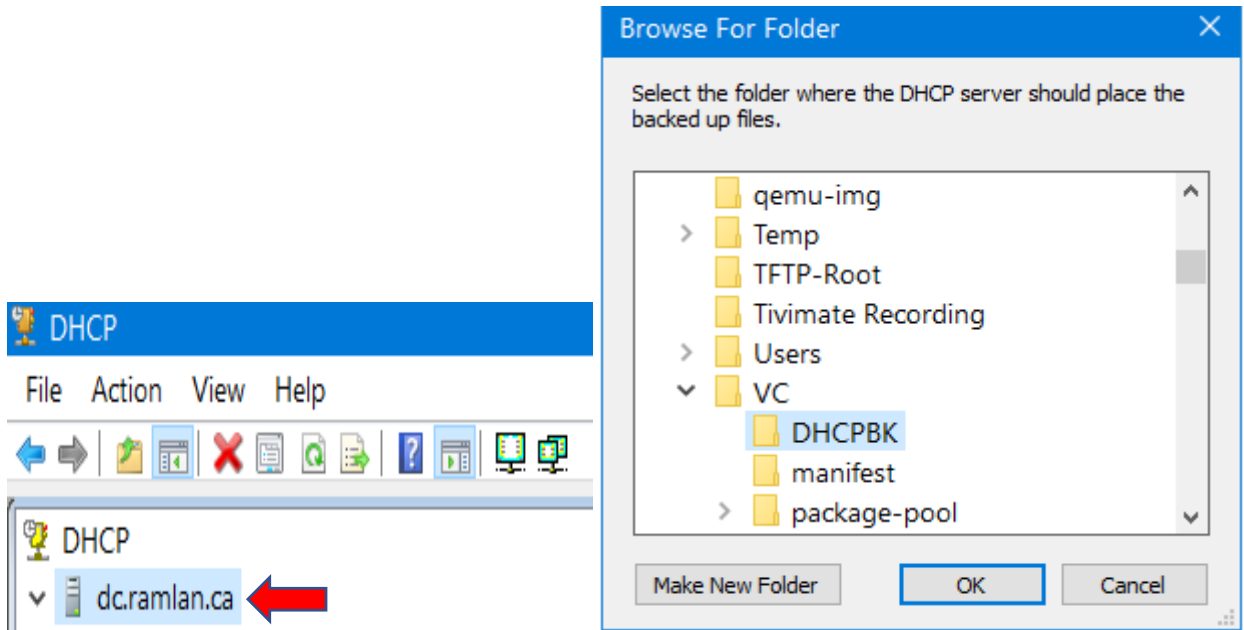
DHCP

File Action View Help

The screenshot shows the DHCP console interface with the 'Server Options' pane selected. The left tree view is expanded to the 'Server Options' folder. The right pane displays a table of DHCP options:

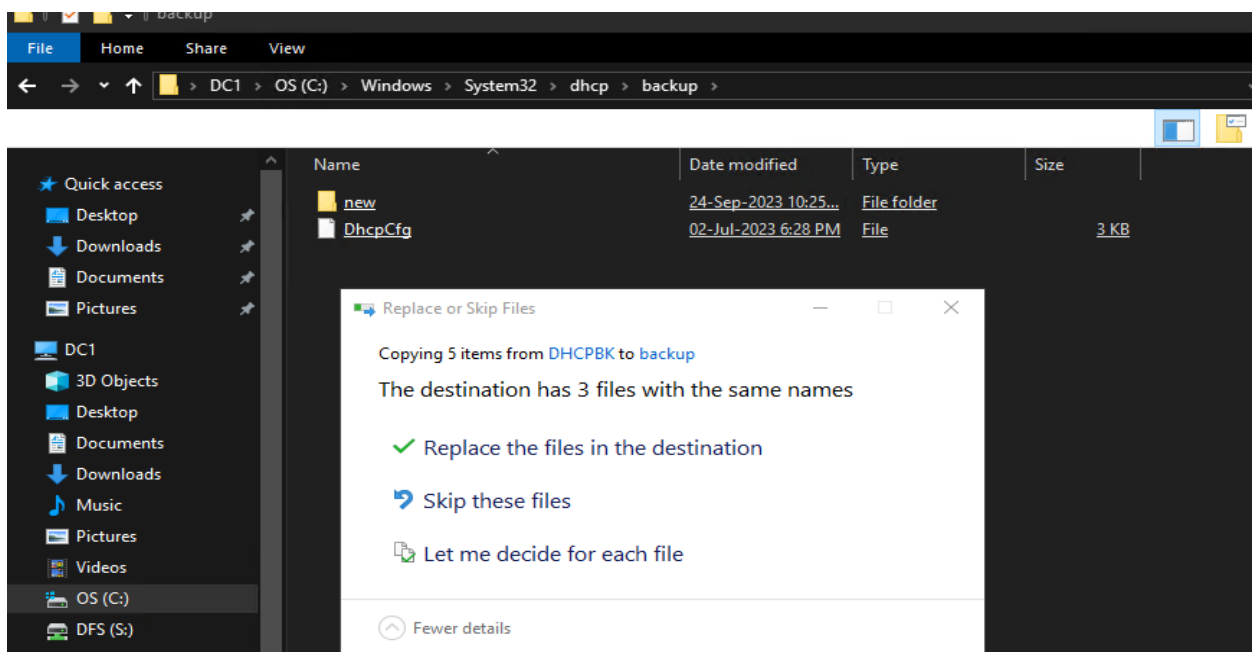
| Option Name | Vendor | Value | Policy Name |
|---------------------|----------|---------------------------|-------------|
| 003 Router | Standard | 192.168.0.1 | None |
| 006 DNS Servers | Standard | 192.168.0.2, 192.168.0.22 | None |
| 015 DNS Domain Name | Standard | RAMLAN.CA | None |

To start with create a folder and call it DHCPBK. Then open DHCP Console – Right Click Primary DC – Select Backup



You won't see backup successful message. That is OK!

We will copy backup to Secondary DC – The location is Windows\System32\DHCP\backup



Open DHCP Console and Restore the database. Make sure secondary DHCP server does not have any scope created. If you have any scope delete and close the console and then reopen – if not you will see error message like this below.

The screenshot shows the DHCP console interface. On the left, a tree view shows the hierarchy: DHCP > dc1.ramlan.ca > IPv4 > Scope [192.168.0.0] Home Lab 2019. A red line highlights this path. In the center, a 'Browse For Folder' dialog box is open, showing a file explorer view with a 'dhcp' folder containing a 'backup' subfolder. Below the dialog, two error messages are displayed in separate windows:

| Option Name | Vendor | Value | Policy Name |
|---------------------|----------|---------------------------|-------------|
| 003 Router | Standard | 192.168.0.1 | None |
| 006 DNS Servers | Standard | 192.168.0.22, 192.168.0.2 | None |
| 015 DNS Domain Name | Standard | RAMLAN.CA | None |

Message 1: In order for changes to take effect, the service must be stopped and restarted. Would you like to do this now? (Buttons: Yes, No)

Message 2: The database was not restored correctly. No changes were made. For more information, please see Event Viewer on the specified server. (Button: OK)

After I deleted existing scope, I was able to restore the database successfully.

The screenshot shows a DHCP console window with a success message:

Message: The database was restored successfully. (Button: OK)

Now we have the secondary DHCP running just like the Primary DHCP. All the settings transferred properly.

File Action View Help

Contents of DHCP

| Contents of DHCP | Status |
|------------------|--------|
| dc1.ramlan.ca | |

DHCP
 dc1.ramlan.ca
 IPv4
 Scope [192.168.0.0] Home Lab 2019
 Address Pool
 Address Leases
 Reservations
 [192.168.0.108] EPSON57334A.RAMLAN.
 [192.168.0.184] EMC-NAS.RAMLAN.CA
 Scope Options
 Policies
 Server Options
 Policies
 Filters
 Allow
 Deny
 IPv6
 Server Options

File Action View Help

| Start IP Address | End IP Address | Description |
|------------------|----------------|---|
| 192.168.0.2 | 192.168.0.200 | Address range for distribution |
| 192.168.0.2 | 192.168.0.100 | IP Addresses excluded from distribution |

DHCP
 dc1.ramlan.ca
 IPv4
 Scope [192.168.0.0] Home Lab 2019
 Address Pool
 Address Leases
 Reservations
 [192.168.0.108] EPSON57334A.RAMLAN.
 [192.168.0.184] EMC-NAS.RAMLAN.CA
 Scope Options
 Policies
 Server Options
 Policies
 Filters
 Allow
 Deny
 IPv6
 Server Options

File Action View Help

| Client IP Address | Name | Lease Expiration | Type | Unique ID | Description | Network Access Protection | Probation Expiration |
|-------------------|---------------------|------------------------|------|--------------|-------------|---------------------------|----------------------|
| 192.168.0.101 | amazon-6fb949d73... | 01-Oct-2023 4:03:37 PM | DHCP | 000010014... | | Full Access | N/A |
| 192.168.0.103 | OnePlus-6T-Ram.R... | 02-Oct-2023 8:16:50 AM | DHCP | 664326da5... | | Full Access | N/A |
| 192.168.0.106 | SPRO4.RAMLAN.CA | 02-Oct-2023 9:39:23 AM | DHCP | bc8389f54... | | Full Access | N/A |
| 192.168.0.108 | EPSON57334A.RAM... | Reservation (active) | DHCP | 0026ab573... | | Full Access | N/A |
| 192.168.0.184 | EMC-NAS.RAMLAN... | Reservation (active) | DHCP | 00d0b8163... | | Full Access | N/A |

DHCP
 dc1.ramlan.ca
 IPv4
 Scope [192.168.0.0] Home Lab 2019
 Address Pool
 Address Leases
 Reservations
 [192.168.0.108] EPSON57334A.RAMLAN.
 [192.168.0.184] EMC-NAS.RAMLAN.CA
 Scope Options
 Policies
 Server Options
 Policies
 Filters
 Allow
 Deny
 IPv6
 Server Options

DHCP

File Action View Help

Left pane (Tree View):

- DHCP
 - dc1.ramlan.ca
 - IPv4
 - Scope [192.168.0.0] Home Lab 2019
 - Address Pool
 - Address Leases
 - Reservations
 - [192.168.0.108] EPSON57334A.RAMLAN.CA
 - [192.168.0.184] EMC-NAS.RAMLAN.CA
 - Scope Options
 - Policies
 - Server Options
 - Policies
 - Filters
 - Allow
 - Deny
 - IPv6
 - Server Options

Right pane (Reservations):

- [192.168.0.108] EPSON57334A.RAMLAN.CA
- [192.168.0.184] EMC-NAS.RAMLAN.CA

DHCP

File Action View Help

Left pane (Tree View):

- DHCP
 - dc1.ramlan.ca
 - IPv4
 - Scope [192.168.0.0] Home Lab 2019
 - Address Pool
 - Address Leases
 - Reservations
 - [192.168.0.108] EPSON57334A.RAMLAN.CA
 - [192.168.0.184] EMC-NAS.RAMLAN.CA
 - Scope Options
 - Policies
 - Server Options
 - Policies
 - Filters
 - Allow
 - Deny
 - IPv6
 - Server Options

Right pane (Table):

| Option Name | Vendor | Value | Policy Name |
|---------------------|----------|---------------------------|-------------|
| 003 Router | Standard | 192.168.0.1 | None |
| 006 DNS Servers | Standard | 192.168.0.2, 192.168.0.22 | None |
| 015 DNS Domain Name | Standard | RAMLAN.CA | None |

DHCP

File Action View Help

Left pane (Tree View):

- DHCP
 - dc1.ramlan.ca
 - IPv4
 - Scope [192.168.0.0] Home Lab 2019
 - Address Pool
 - Address Leases
 - Reservations
 - [192.168.0.108] EPSON57334A.RAMLAN.CA
 - [192.168.0.184] EMC-NAS.RAMLAN.CA
 - Scope Options
 - Policies
 - Server Options
 - Policies
 - Filters
 - Allow
 - Deny
 - IPv6
 - Server Options

Right pane (Table):

| Option Name | Vendor | Value | Policy Name |
|---------------------|----------|---------------------------|-------------|
| 003 Router | Standard | 192.168.0.1 | None |
| 006 DNS Servers | Standard | 192.168.0.2, 192.168.0.22 | None |
| 015 DNS Domain Name | Standard | RAMLAN.CA | None |

Thanks

Ram
2nd Oct 2023