IPAM –monitor and manage DHCP AND DNS servers

## Infrastructure monitoring and management

The following procedure demonstrates how DHCP and DNS servers can be monitored from the IPAM server.

To monitor and manage DHCP and DNS servers

1. In the IPAM navigation pane, under **MONITOR AND MANAGE**, click **DNS and DHCP Servers**.
2. Next to **Server Type**, note that you can choose **DNS**, **DHCP**, or **DNS and DHCP**. The server availability, duration in current state, server name, server role, domain name, and IP address is displayed.
3. Click dhcp1.contoso.com, and then under **Details View** review the information provided on the **Server Properties**, **Options**, and **Event Catalog** tabs.
4. Right-click the DHCP server and note that you can directly configure the DHCP server from the IPAM console.

5. Next to **Server Type** choose **DHCP** and then next to **View** choose **Scope properties**.
6. Right-click the **Contoso-scope1** DHCP scope and then click **Duplicate DHCP Scope**.
7. In the **Duplicate DHCP Scope** dialog box, change the **Scope name** to **Contoso-scope2**.
8. Type the following values under **General Properties**:
    o **Start IP address**: **10.0.1.1**

    o **End IP address**: **10.0.1.254**

   o **Subnet mask**: **255.255.255.0**
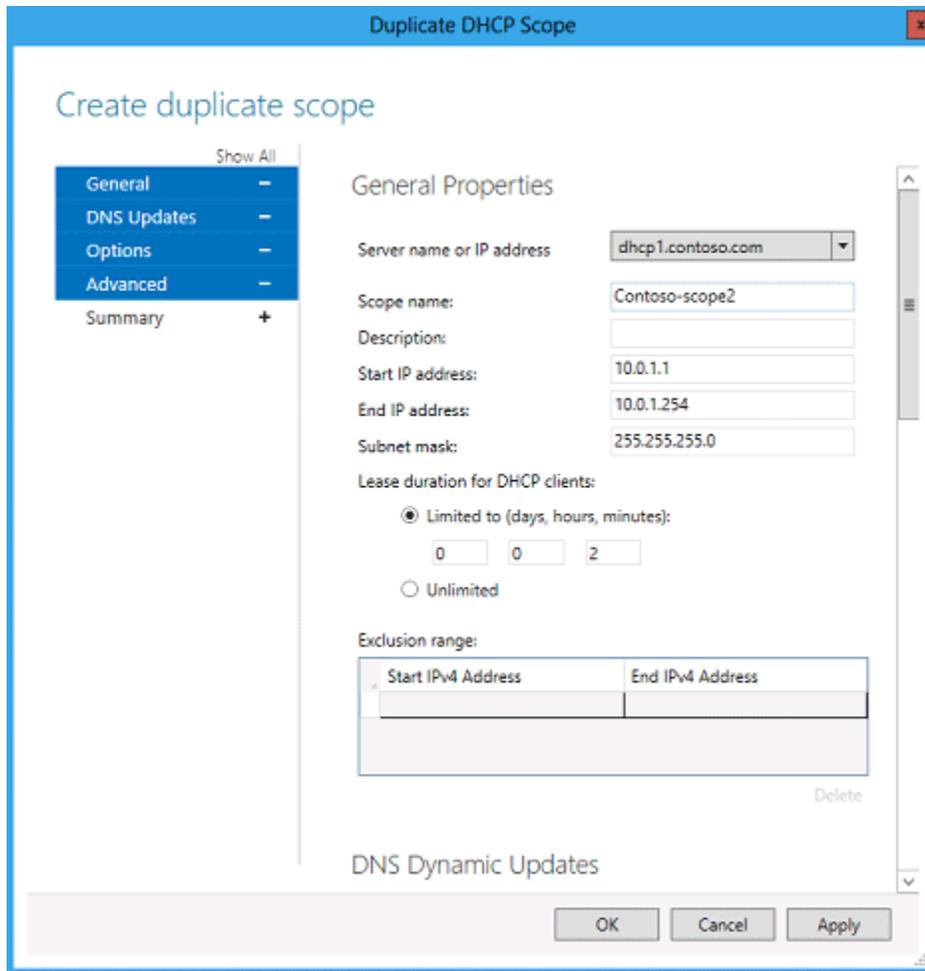
9. In the left pane, click **DNS Updates**, click **Options**, and click **Advanced**. Note that all the scope properties have already been configured identically to the Contoso-scope1 DHCP scope. You can also edit these values if desired.
10. Click **OK** and verify that a new DHCP scope is displayed in the list with the **Scope NameContoso-scope2**.
11. Refresh the DHCP console on DHCP1 and verify that the Contoso-scope2 DHCP scope is configured and activated.
12. On IPAM1, select both DHCP scopes using SHIFT, right-click the scopes and then click **Edit DHCP Scope**.
13. In the left pane, click Options.
14. Next to **Configuration action**, choose **Add**, and next to **Option** choose **003 Router**.
15. Under IP Address, click **0.0.0.0** and click **Delete**.
16. Under **IP Address**, type **10.0.0.10**, press ENTER, and then click **Add to list**.
17. Click **OK** and verify that a new 003 Router option has been added to both DHCP scopes. The next time that Client1 renews a DHCP lease it will receive this configuration option.

🔎**Tip**

You can use this method to bulk-edit options on multiple DHCP scopes at once. In the

previous example, the **Add** function was used. You can also choose **Overwrite**, **Find and replace**, or **Delete**.

18. Next to **Server Type**, choose **DNS**.
19. Under **Details View**, review the information provided on the **Server Properties**, **DNS Zones**, and **Event Catalog** tabs.
20. Right-click **DC1.contosol.com** and then click **Launch MMC**. Note that you can directly configure zones on DC1.
21. In the IPAM navigation pane, click **DHCP Scopes** and review the information under **Details View** on the **Scope properties** and **Options** tabs.
22. In the IPAM navigation pane, click **DNS Zone Monitoring** and review the information on the **Zone Properties** and **Authoritative Servers** tabs.
23. In the IPAM navigation pane, click **Server Groups**.
24. Right-click **IPv4** and note that the same logical group functionality that is available for IP address ranges is also available for managed servers. Custom fields are available by editing server properties and selecting the Custom Configuration menu item. This provides a highly customizable managed server display.
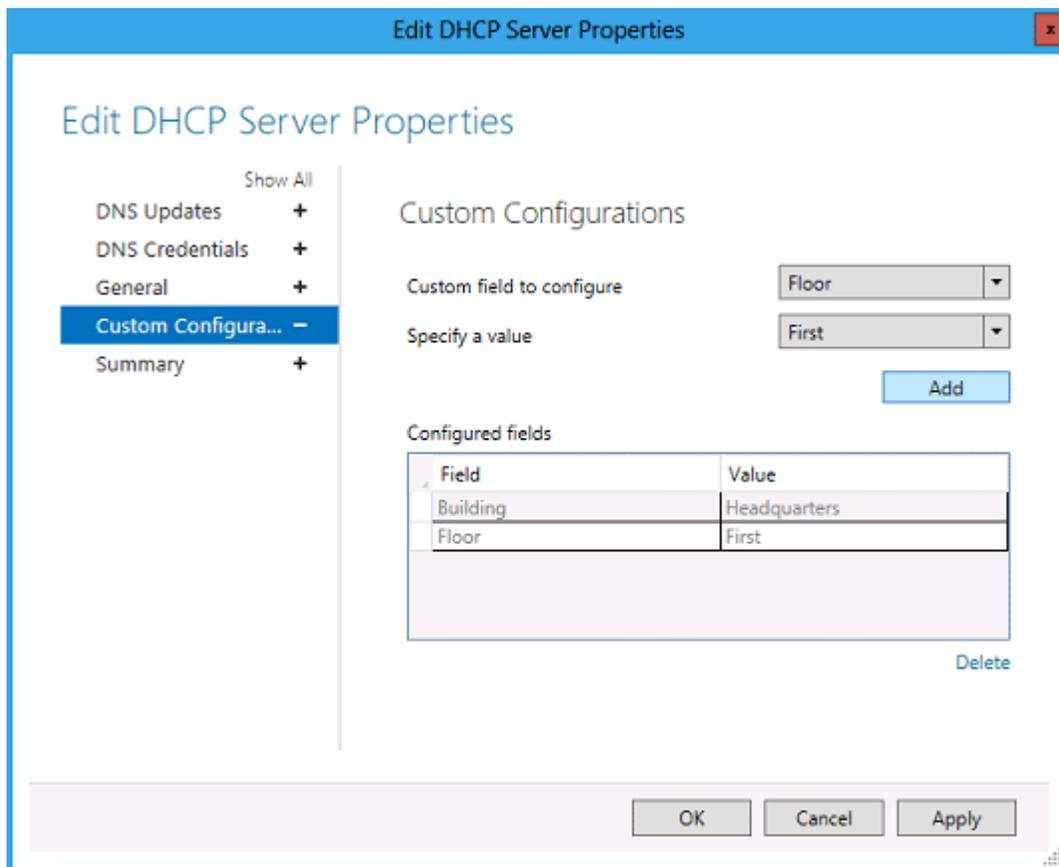

Review audit logs and events

IPAM also allows you to track several types of events on DNS and DHCP servers, including both client and server data.

To review audit logs and events

1. In the IPAM navigation menu, click **EVENT CATALOG**.
2. By default, **IPAM Configuration Events** is selected in the lower navigation pane. Review the events that are displayed.
3. Click **DHCP Configuration Events** in the lower navigation pane and review the DHCP events that are displayed.
4. Under **IP Address Tracking**, click **By Host Name**.
5. Type **Client1** in the search box, and then type dates in the two text boxes next to **and DHCP lease events between these dates** in the format of month/day/year. Enter a range of dates that includes today, and then click **Search**.
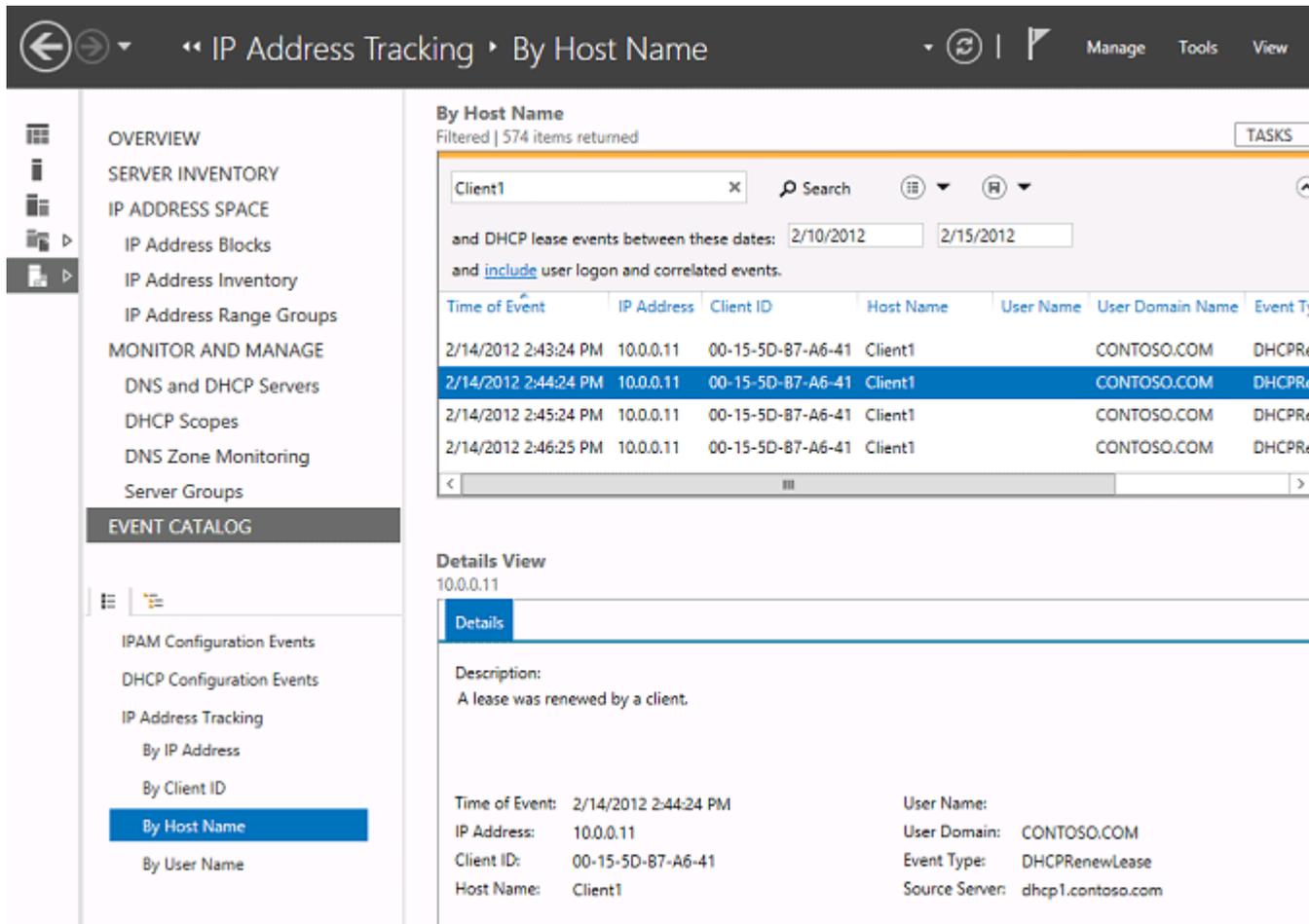
6. Click **TASKS** and then click **Export**.
7. In the **Save As** dialog box, type **client1-events** next to **File name** and then click **Save**.
8. Open the client1-events.csv file in notepad or Excel to view the list of events.