

Technical Support Document

http://www.vicon-security.com US Support <u>support@vicon-security.com</u> 1-800-348-4266, ext. 5 EMEA Support <u>EMEAsupport@vicon-security.com</u> +44 (0)1489 566330

Connecting to an iSCSI RAID

This guide covers configuration of the iSCSI initiator within the Windows PC (Kollector/NVR) and an iSCSI RAID. It shows initially how to connect the two units together but may be equally helpful when reconnecting or fault finding. For best performance the iSCSI RAID should be connected via a dedicated network shown in Red below.



NOTE: IP Addresses shown are for guidance only. Please check the Network settings on each device before proceeding as they may be different.

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Go to Control Panel and start the iSCSI Initiator



Discover Target Portal X
Enter the IP address or DNS name and port number of the portal you
want to add.
To change the default settings of the discovery of the target portal, dick
the Advanced button.
IP address or DNS name: Port: (Default is 3260.)
Advanced...
OK Cancel

Click on Discovery, Discover Portal.

And then Advanced.



| dvanced S | ettings | | ? | × |
|---|---|---|------------------------|---|
| General I | Psec | | | |
| Connect | using | | | |
| Local ada | apter: | Microsoft iSCSI Initiator | ~ | |
| Initiator I | IP: | 1.0.0.1 | ~ | |
| Target po | ortal IP: | | \sim | |
| - CPC / Ck | ackeum | This is the SAN IP address of the Kollector | /NVR | |
| Data | digest | Header digest | | |
| CHAP L | e CHAP log o og on inform lps ensure c or. | on mation connection security by providing authentication between a target - | and | |
| Enable CHAP L CHAP hel an initiator To use, s initiator. specified | e CHAP log a og on inform lps ensure c or. specify the s The name v | on mation connection security by providing authentication between a target. same name and CHAP secret that was configured on the target fo will default to the Initiator Name of the system unless another nam [rgn.1991-05.com.microsoft:viconpc009.viconuk.local | and r this ne is | |
| Enable CHAP L CHAP hel an initiato To use, s initiator. specified Name: Target se | e CHAP log o og on inform lps ensure c or. specify the s The name v - | on mation connection security by providing authentication between a target to same name and CHAP secret that was configured on the target fo will default to the Initiator Name of the system unless another nam ign. 1991-05.com.microsoft:viconpc009.viconuk.local | and r this ne is | |

Change the Local Adapter to Microsoft iSCSI Initiator. Enter the Initiator IP Address. This is the IP address of the Kollector/NVR iSCSI SAN port.

Click OK

| argets | Discovery | Favorite Targets | Volumes and Devices | RADIUS | Configuration | |
|------------------------|---|--|------------------------------|--------|-------------------|--|
| Targe The s | t portals system will lo | ok for Targets on fo | llowing portals: | | Refresh | |
| Addr | ess | Port | Adapter | 1 | P address | |
| 10.0 | .0.10 | 3260 | Microsoft iSCSI Initia | tor 1 | .0.0.0.1 | |
| To ac To re then | dd a target p move a targ dick Remove | ortal, click Discover et portal, select the e. | Portal. address above and | Disco | over Portal | |
| iSNS s The s | ervers system is reg | istered on the follow | wing iSNS servers: | | Refresh | |
| | | | | | | |
| To ac | dd an iSNS se move an iSN | erver, dick Add Serv S server, select the | ver. server above and | Ad | d Server | |
| then | dick Remove | | | | Shell Chill & See | |
| | | | | | | |

Your settings should now appear like this.

| Connect To Target | | × |
|---|---|----|
| Target name: | | |
| My-RAID-Example | | |
| Add this connection to the list | of Eavorite Targets | |
| This will make the system auto connection every time this co | omatically attempt to restore t mputer restarts. | he |
| This will make the system auto connection every time this con Enable multi-path | omatically attempt to restore to mputer restarts. | he |

Next enter the IP Address of the Target port. This is the CH0 port of the iSCSI RAID

| Discover Target Portal | | > |
|---|----------------------------|---------------|
| Enter the IP address or DNS name want to add. | and port number of the po | ortal you |
| To change the default settings of t the Advanced button. | he discovery of the target | portal, click |
| | | |
| This is the CHO IP Ad | dress of the RAI | D |
| This is the CHO IP Ad IP address or DNS name: | dress of the RAI | D 3260.) |
| This is the CHO IP Ad IP address or DNS name: | Port: (Default is 3260 | D 3260.) |

Click on OK

| argets Discovery | Favorite Targets | Volumes and Devices | RADIUS | Configuration |
|--|--|--|------------|--|
| Quick Connect | | | | |
| To discover and lo DNS name of the t | g on to a target usir target and then click | ng a basic connection, t Quick Connect. | ype the IP | address or |
| Target: | | | Q | uick Connect |
| Discovered targets | 5 | | | |
| | | | | Refresh |
| Name | | | Status | |
| My-RAID-Example | e | | Inactive | |
| | | | | |
| To connect using a click Connect. | advanced options, se | elect a target and then | | Connect |
| To connect using a dick Connect. To completely disc then click Disconne | advanced options, se connect a target, sele cct. | elect a target and then | | Connect Disconnect |
| To connect using a dick Connect. To completely disc then dick Disconne For target propert select the target a | advanced options, su onnect a target, sel ect. ites, including config and dick Properties. | elect a target and then ect the target and uration of sessions, | | Connect Disconnect Properties |
| To connect using a click Connect. To completely disc then click Disconne For target propert select the target a For configuration of the target and the | advanced options, su onnect a target, sel ct. ides, including configu and click Properties. of devices associate on click Devices. | elect a target and then ect the target and uration of sessions, d with a target, select | | Connect Disconnect Properties Devices |

Click on Targets and highlight the discovered RAID Click on Connect.

Click on Advanced.

| | L | iscsi muator Properties | |
|---|---|---|--|
| eral IPsec | | Targets Discovery Favorite Targets Volumes an | nd Devices RADIUS Configuration |
| Connect using | | Quick Connect | |
| ocal adapter: | Microsoft iSCSI Initiator | To discover and log on to a target using a basic co DNS name of the target and then click Quick Conne | nnection, type the IP address or ect. |
| nitiator IP: | 1.0.0.1 ~ | | |
| arget portal IP | 1.0.0.10/3260 | Target: | Quick Connect. |
| arget portai IP. | | Discovered targets | |
| RC / Checksum | Use Drop down to select | | Refresh |
| Data digest | Header digest | Name | Status |
| | | My-RAID-Example | Connected |
| use, specify the sa ator. The name w cified. | ame name and CHAP secret that was configured on the target for this will default to the Initiator Name of the system unless another name is | | |
| use, specify the sa iator. The name w ecified. me: | ame name and CHAP secret that was configured on the target for this will default to the Initiator Name of the system unless another name is ign. 1991-05, com.microsoft:viconpc009.viconuk.local | To connect using advanced options, select a targe | t and then Connect |
| use, specify the s. tiator. The name w ecified. me: rget secret: | ame name and CHAP secret that was configured on the target for this will default to the Initiator Name of the system unless another name is ign. 1991-05, com.microsoft:viconpc009.viconuk.local | To connect using advanced options, select a targe click Connect. | at and then Connect |
| o use, specify the s- tator. The name w ecified. ame: arget secret:]Perform mutual au | ame name and CHAP secret that was configured on the target for this will default to the Initiator Name of the system unless another name is ign: 1991-05,com.microsoft:viconpc009.viconuk.local uthentication | To connect using advanced options, select a targe click Connect. To completely disconnect a target, select the targe then click Disconnect. | et and then Connect et and Disconnect |
| use, specify the s tator. The name w ecified. ame: arget secret:] Perform mutual au o use mutual CHAP, aDIUS. | ame name and CHAP secret that was configured on the target for this will default to the Initiator Name of the system unless another name is [iqn: 1991-05.com.microsoft:viconpc009.viconuk.local [iqn: the specify an initiator secret on the Configuration page or use | To connect using advanced options, select a targe click Connect. To completely disconnect a target, select the targe then click Disconnect. For target properties, including configuration of se select the target and click Properties. | et and then Connect et and Disconnect essions, Properties |
| use, specify the s tator. The name v ecified. ame: irget secret: Perform mutual au use mutual CHAP, DIUS. Use RADIUS to ge | ame name and CHAP secret that was configured on the target for this will default to the Initiator Name of the system unless another name is [iqn: 1991-05.com.microsoft:viconpc009.viconuk.local [iqn: 1991-05.c | To connect using advanced options, select a targe click Connect. To completely disconnect a target, select the targe then click Disconnect. For target properties, including configuration of se select the target and click Properties. For configuration of devices associated with a targe | et and then Connect et and Disconnect essions, Properties get, select Devices |
| o use, specify the s itiator. The name v excified. ame: arget secret:]Perform mutual au use mutual CHAP, ADIUS.]Use RADIUS to ge]Use RADIUS to gu | ame name and CHAP secret that was configured on the target for this will default to the Initiator Name of the system unless another name is [iqn. 1991-05.com.microsoft:viconpc009.viconuk.local [uthentication .either specify an initiator secret on the Configuration page or use enerate user authentication credentials uthenticate target credentials | To connect using advanced options, select a targe click Connect. To completely disconnect a target, select the targe then click Disconnect. For target properties, including configuration of se select the target and click Properties. For configuration of devices associated with a targe the target and then click Devices. | et and then Connect et and Disconnect essions, Properties get, select Devices |

Use the Drop downs to select the Local adapter, Initiator IP and Target portal IP as shown.

Click OK x 2

The RAID should now show as Connected.

OK Cancel Apply

If this is a new installation the RAID should appear in Windows Disc Management as a New Drive with a message "Initialise Disc?" Once this has been completed the RAID will appear in Windows as one or more Drive letters depending on the configuration of the RAID. This is covered in another technical guide – Windows Hard Drive Initialisation.

For an existing installation, say following a repair of the RAID, then the iSCSI initiator should automatically pick up and connect if no settings have changed. However, if it is the NVR/Kollector that has been repaired then the above procedure will need to be followed if the settings have been lost.

If the RAID will not connect:

- Check the SAN Network settings of the NVR/Kollector and the RAID match that of the iSCSI Initiator.
- Check the Ethernet patch cables are OK and plugged in to the correct ports.
- Check the RAID management software to ensure that the RAID is configured and functioning correctly.
- If all else fails, please call Vicon Technical Support.