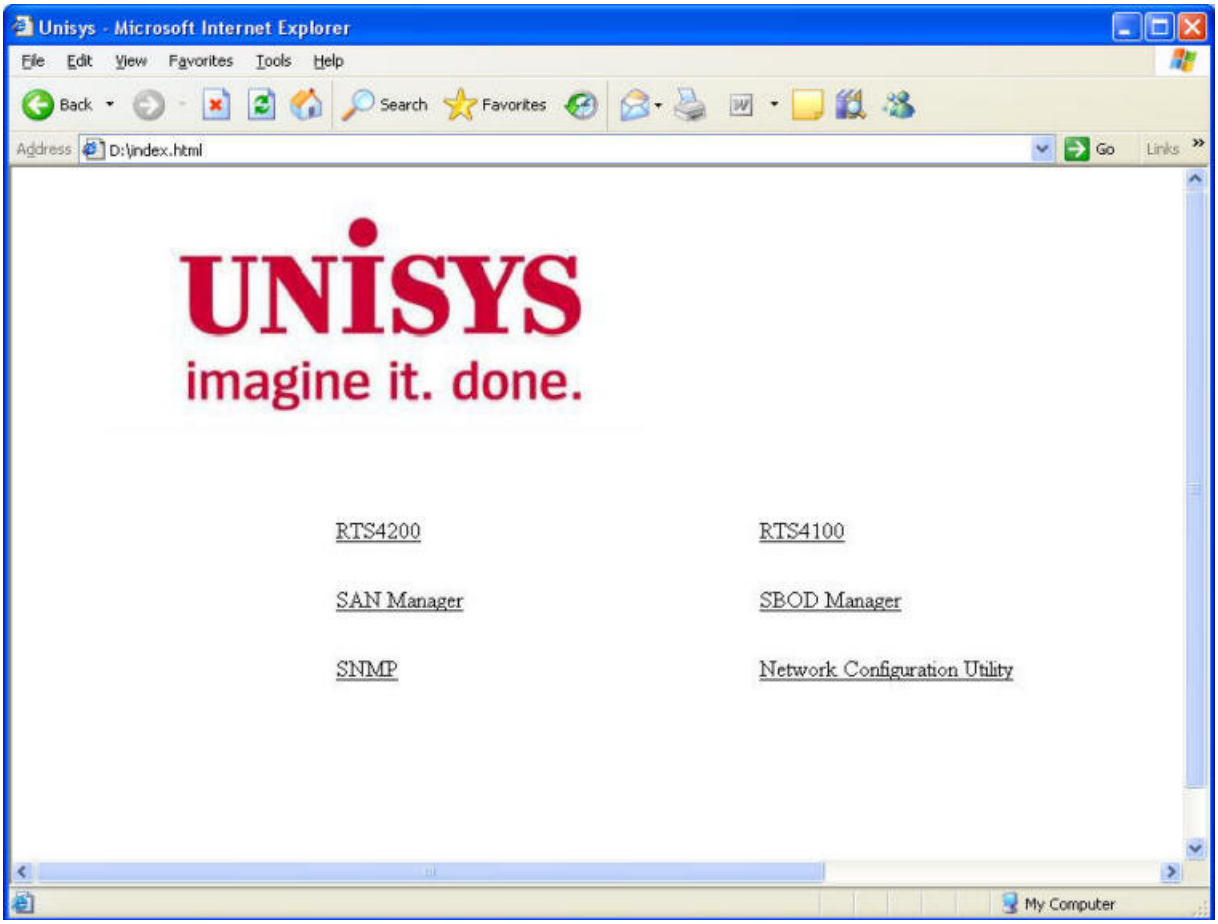
TPCE RAID subsystem configuration

Requirements:

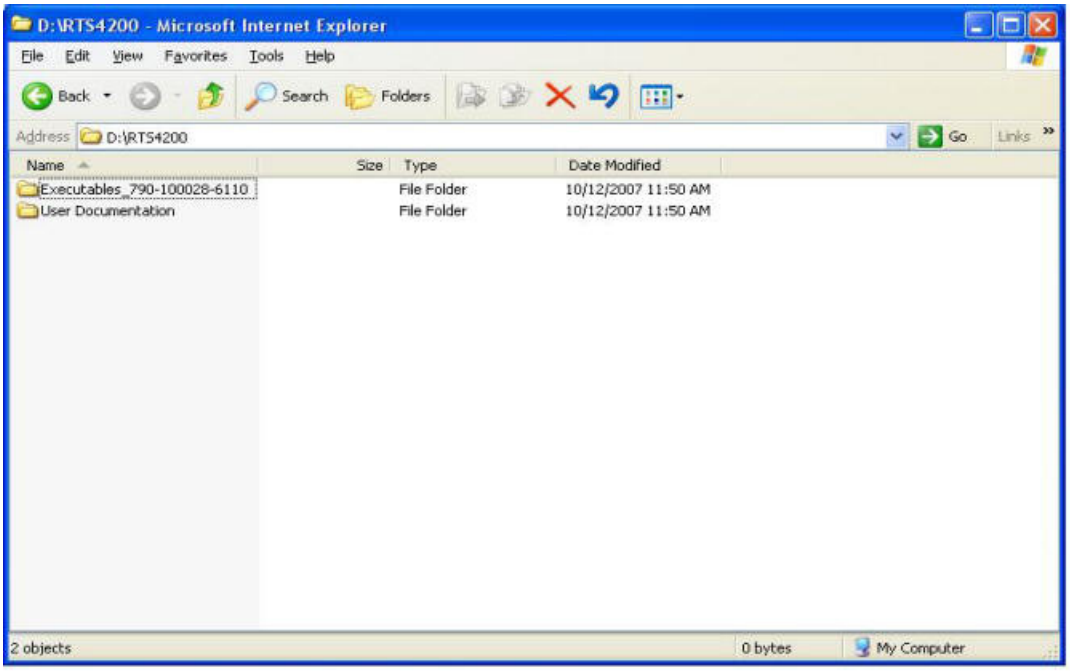
A system running Windows, with CD reader, and a network connection to each RAID Subsystem. We used one of the Client systems. Unisys CD provided with each subsystem.

Getting started:

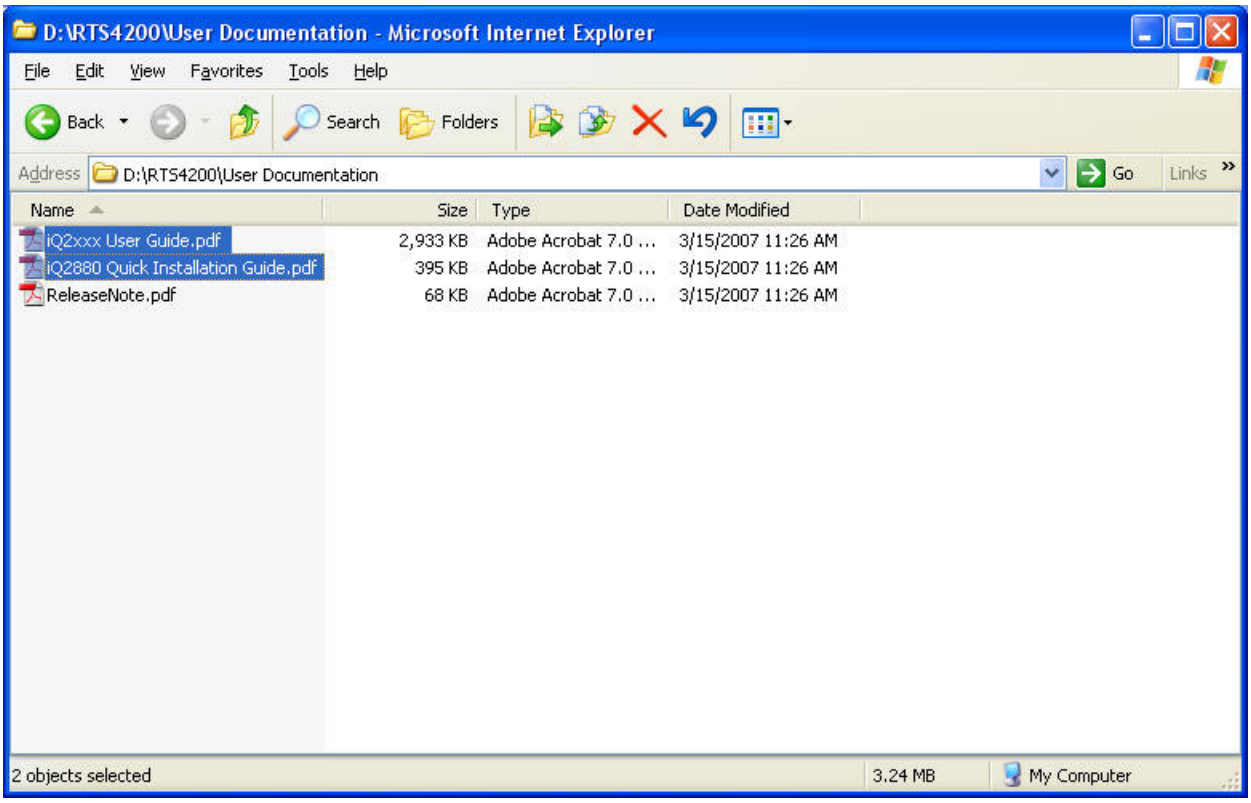
Put the Unisys provided CD in the CD reader and see the following.



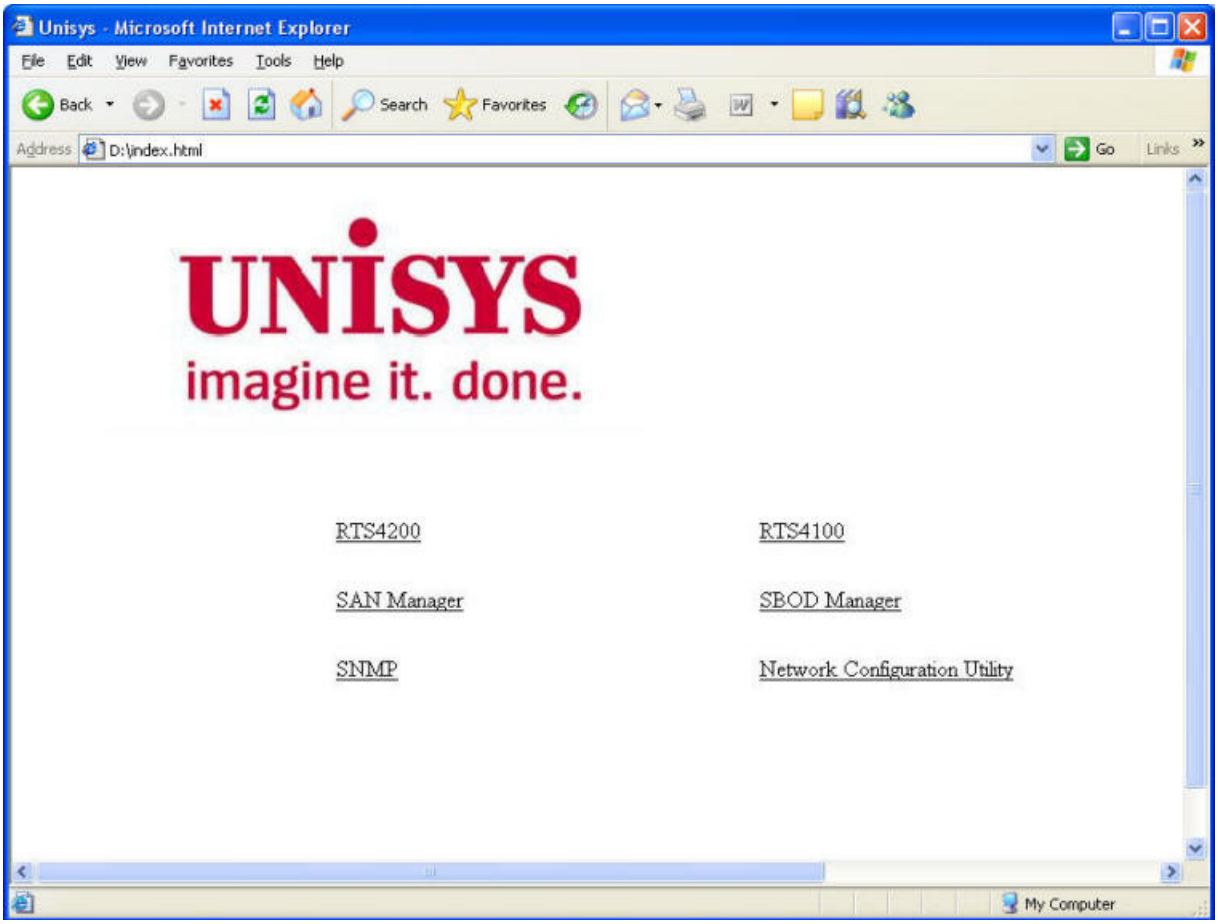
This popup will come up after you put in the CD. Open the RTS4200 link to get to the documentation on the RAID subsystem.



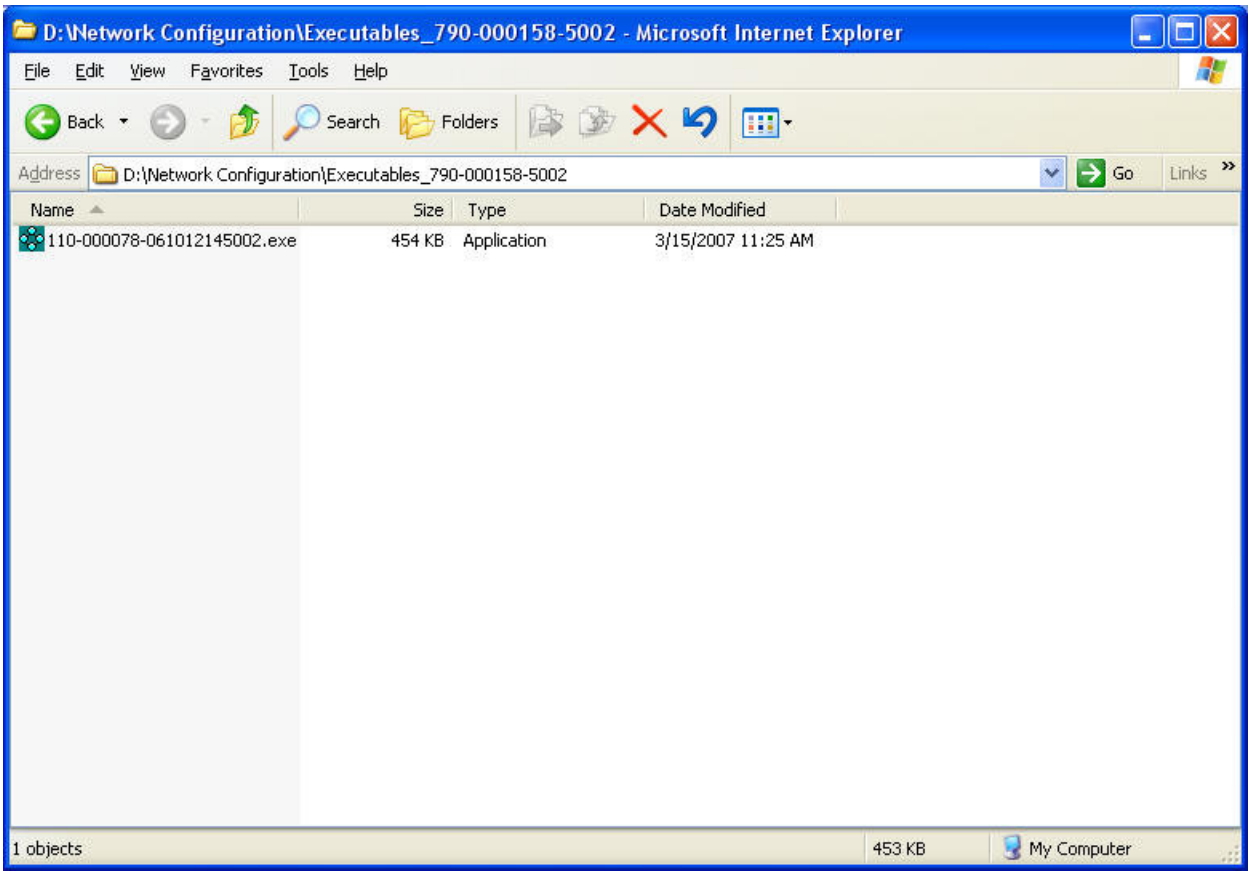
Open User Documentation.



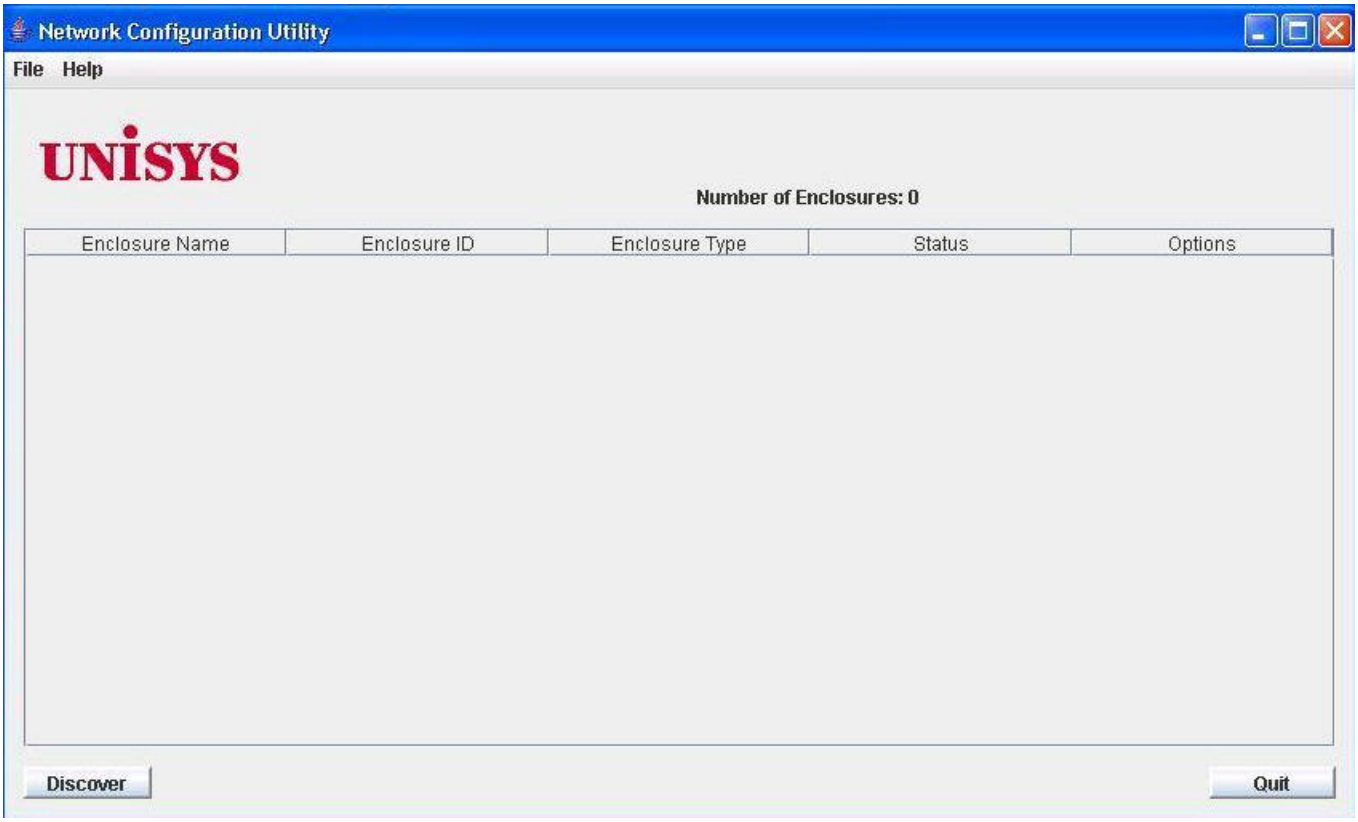
The iQxxx User Guide and iQ2880 Quick Installation Guide will provide you with all the information needed to install the hardware. They will also provide all information needed to configure every piece of the RAID subsystems.



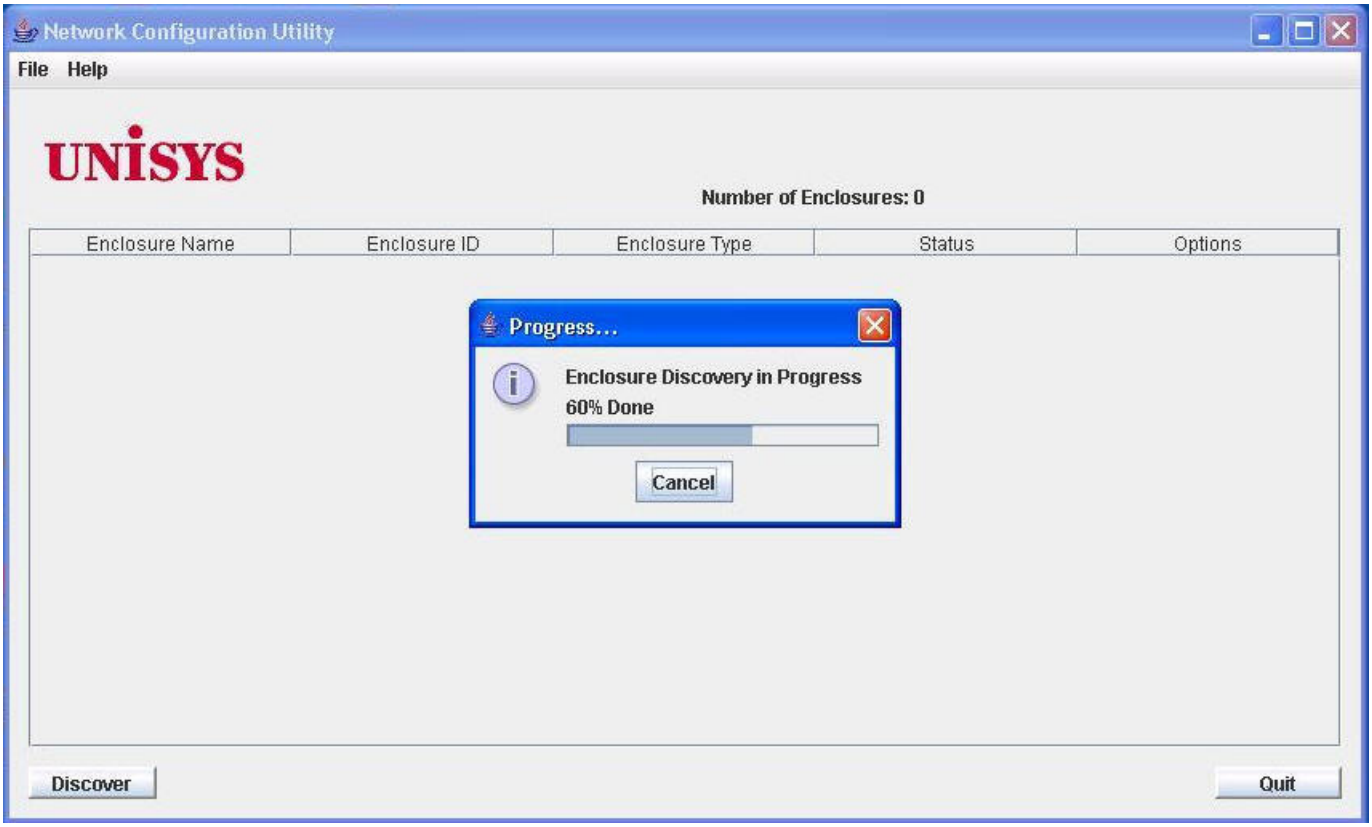
Next, open the Network Configuration Utility link.

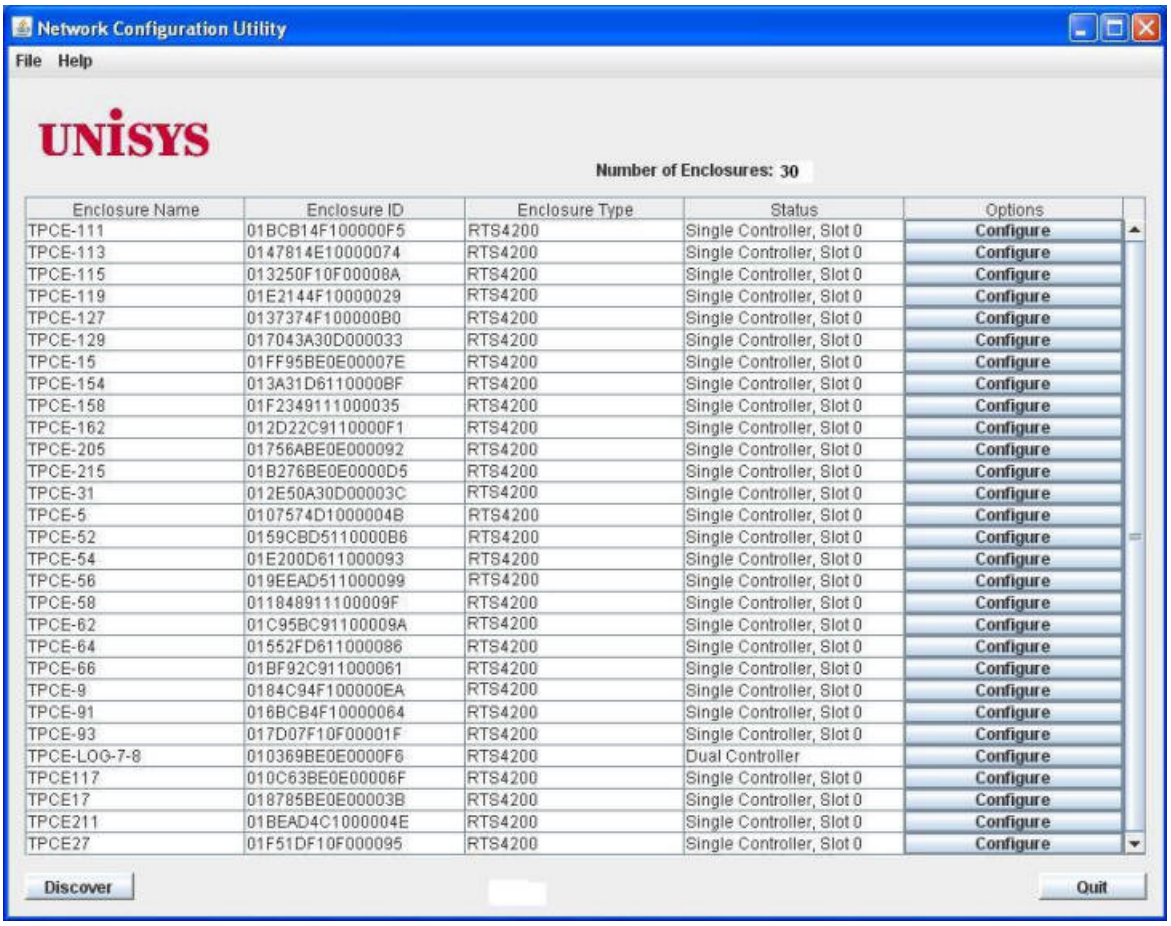


Open file **110-000078-061012145002.exe** This is the Network Configuration Utility. If you have read the previous Documentation you know that this utility will allow you to configure the RAID Subsystems Network, Enclosure Names, and start System Manager. The following will show the Screens used to configure a database subsystem and the log subsystem.



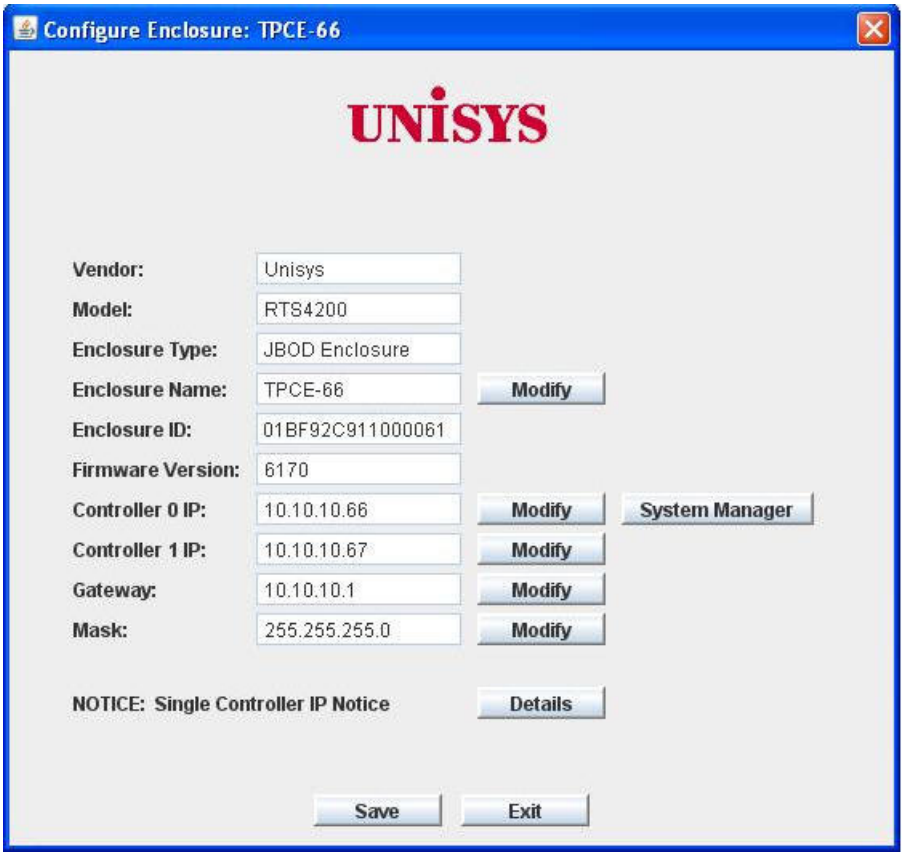
Click on Discover.





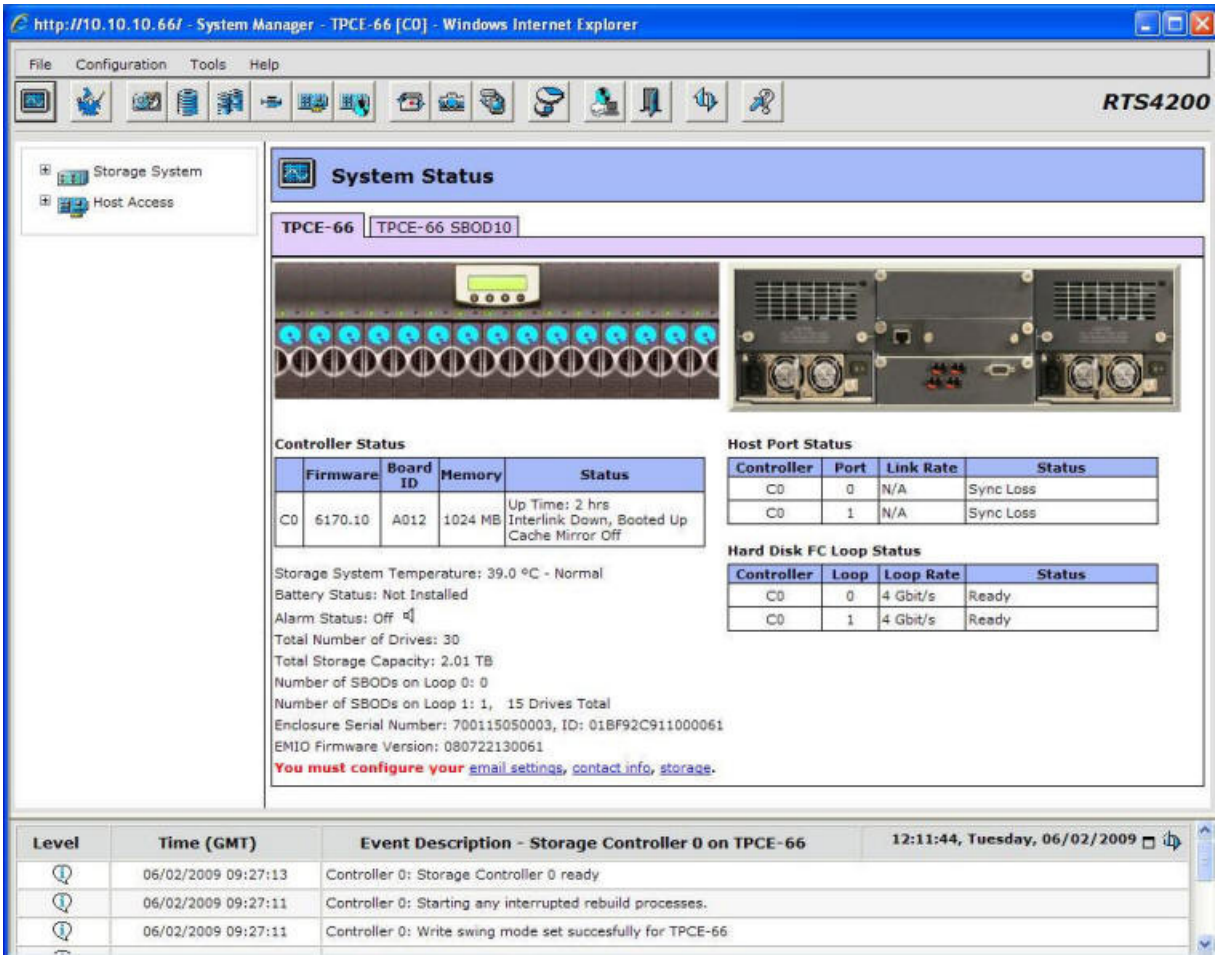
Enclosure Name	Enclosure ID	Enclosure Type	Status	Options
TPCE-111	01BCB14F100000F5	RTS4200	Single Controller, Slot 0	Configure
TPCE-113	0147814E10000074	RTS4200	Single Controller, Slot 0	Configure
TPCE-115	013250F10F00008A	RTS4200	Single Controller, Slot 0	Configure
TPCE-119	01E2144F10000029	RTS4200	Single Controller, Slot 0	Configure
TPCE-127	0137374F100000B0	RTS4200	Single Controller, Slot 0	Configure
TPCE-129	017043A30D000033	RTS4200	Single Controller, Slot 0	Configure
TPCE-15	01FF95BE0E00007E	RTS4200	Single Controller, Slot 0	Configure
TPCE-154	013A31D6110000BF	RTS4200	Single Controller, Slot 0	Configure
TPCE-158	01F2349111000035	RTS4200	Single Controller, Slot 0	Configure
TPCE-162	012D22C9110000F1	RTS4200	Single Controller, Slot 0	Configure
TPCE-205	01756ABE0E000092	RTS4200	Single Controller, Slot 0	Configure
TPCE-215	01B276BE0E0000D5	RTS4200	Single Controller, Slot 0	Configure
TPCE-31	012E50A30D00003C	RTS4200	Single Controller, Slot 0	Configure
TPCE-5	0107574D1000004B	RTS4200	Single Controller, Slot 0	Configure
TPCE-52	0159CBD5110000B6	RTS4200	Single Controller, Slot 0	Configure
TPCE-54	01E200D611000093	RTS4200	Single Controller, Slot 0	Configure
TPCE-56	019EEAD511000099	RTS4200	Single Controller, Slot 0	Configure
TPCE-58	011848911100009F	RTS4200	Single Controller, Slot 0	Configure
TPCE-62	01C95BC91100009A	RTS4200	Single Controller, Slot 0	Configure
TPCE-64	01552FD611000086	RTS4200	Single Controller, Slot 0	Configure
TPCE-66	01BF92C911000061	RTS4200	Single Controller, Slot 0	Configure
TPCE-9	0184C94F100000EA	RTS4200	Single Controller, Slot 0	Configure
TPCE-91	016BCB4F10000064	RTS4200	Single Controller, Slot 0	Configure
TPCE-93	017D07F10F00001F	RTS4200	Single Controller, Slot 0	Configure
TPCE-LOG-7-8	010369BE0E0000F6	RTS4200	Dual Controller	Configure
TPCE117	010C63BE0E00006F	RTS4200	Single Controller, Slot 0	Configure
TPCE17	018785BE0E00003B	RTS4200	Single Controller, Slot 0	Configure
TPCE211	01BEAD4C1000004E	RTS4200	Single Controller, Slot 0	Configure
TPCE27	01F51DF10F000095	RTS4200	Single Controller, Slot 0	Configure

Select an Enclosure and click on Configure.

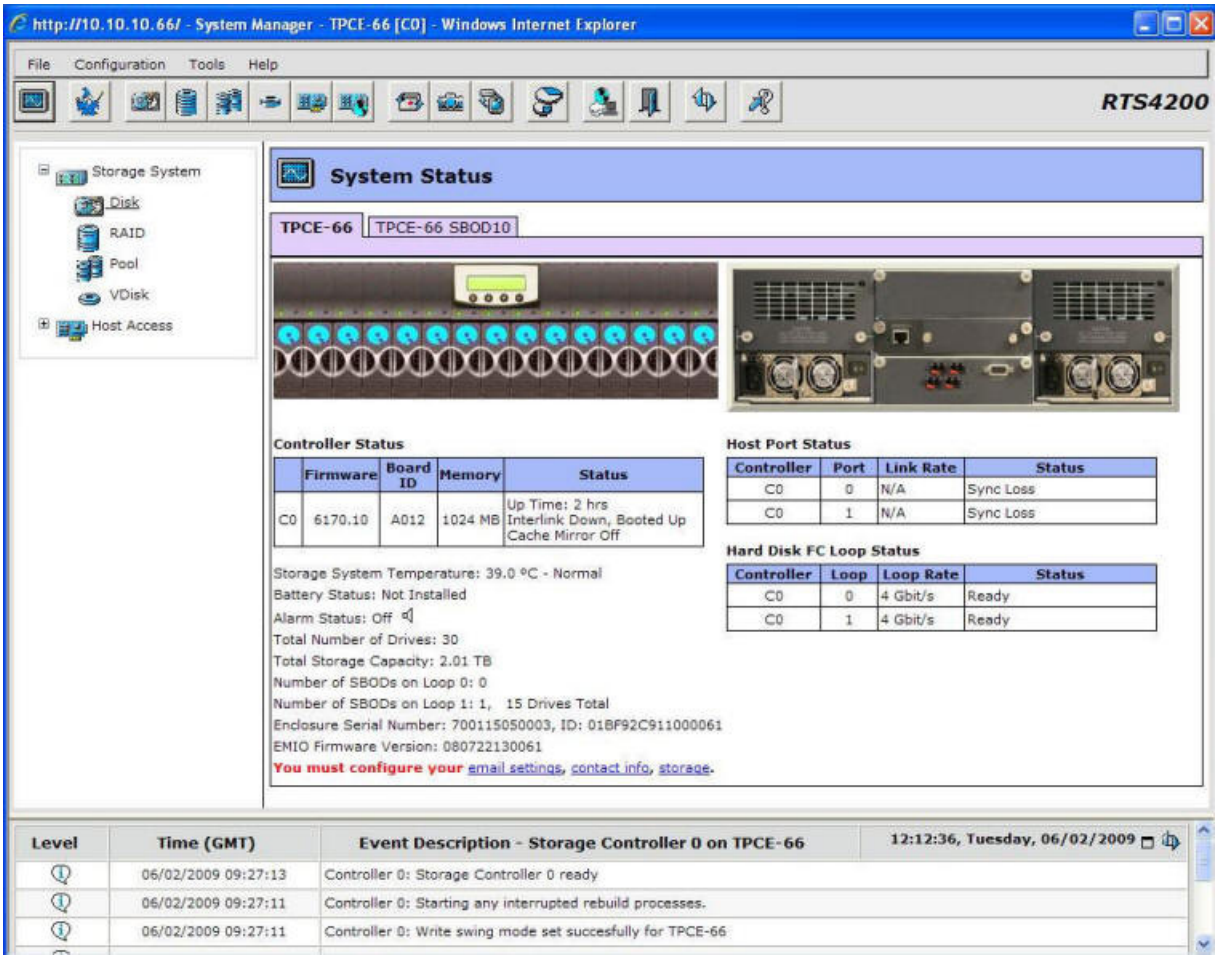


From here you can modify the RAID enclosure name, network configuration, and bring up the System Manager login browser. Click on System Manager.

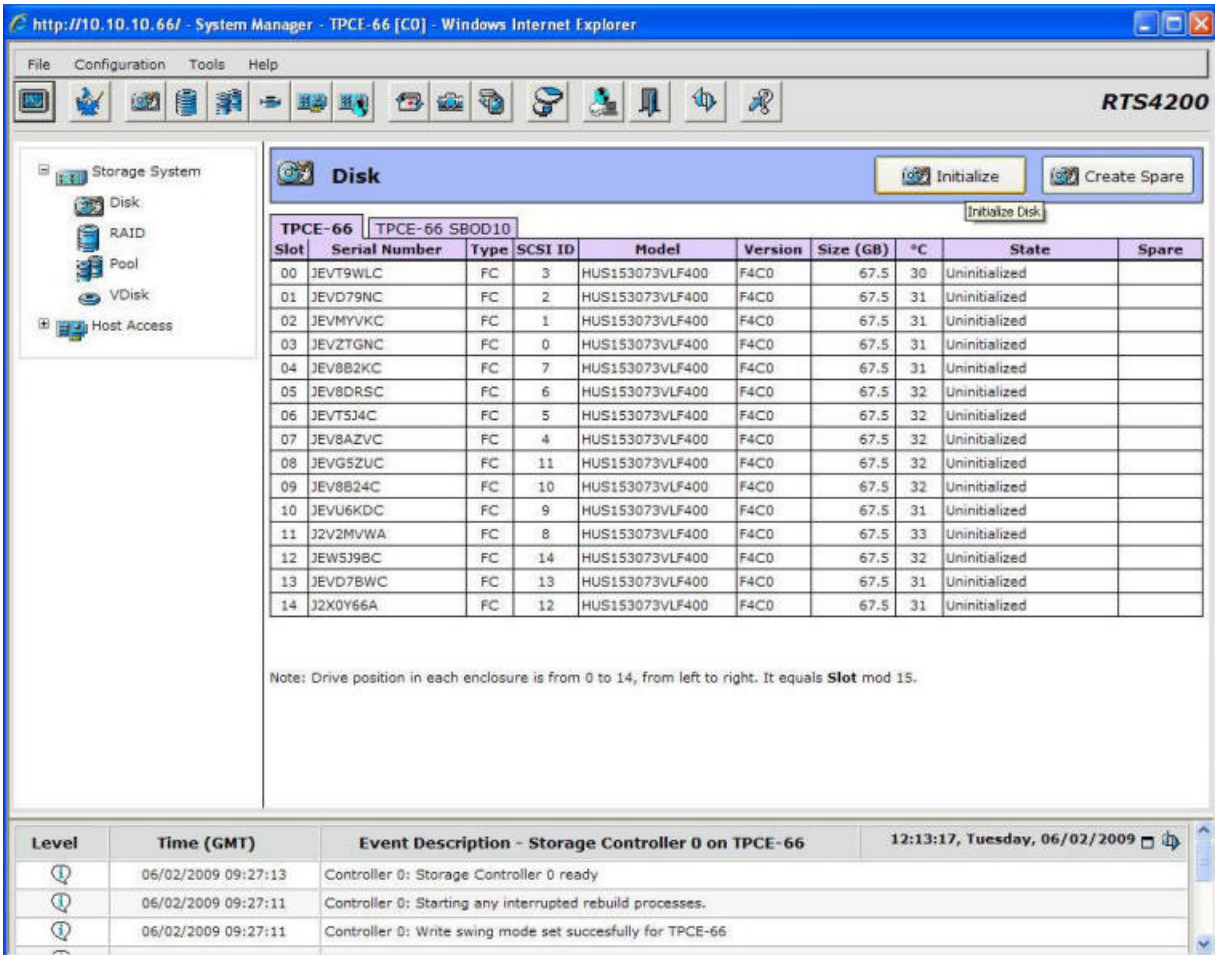
Enter your Username and Password. Then click on Submit.



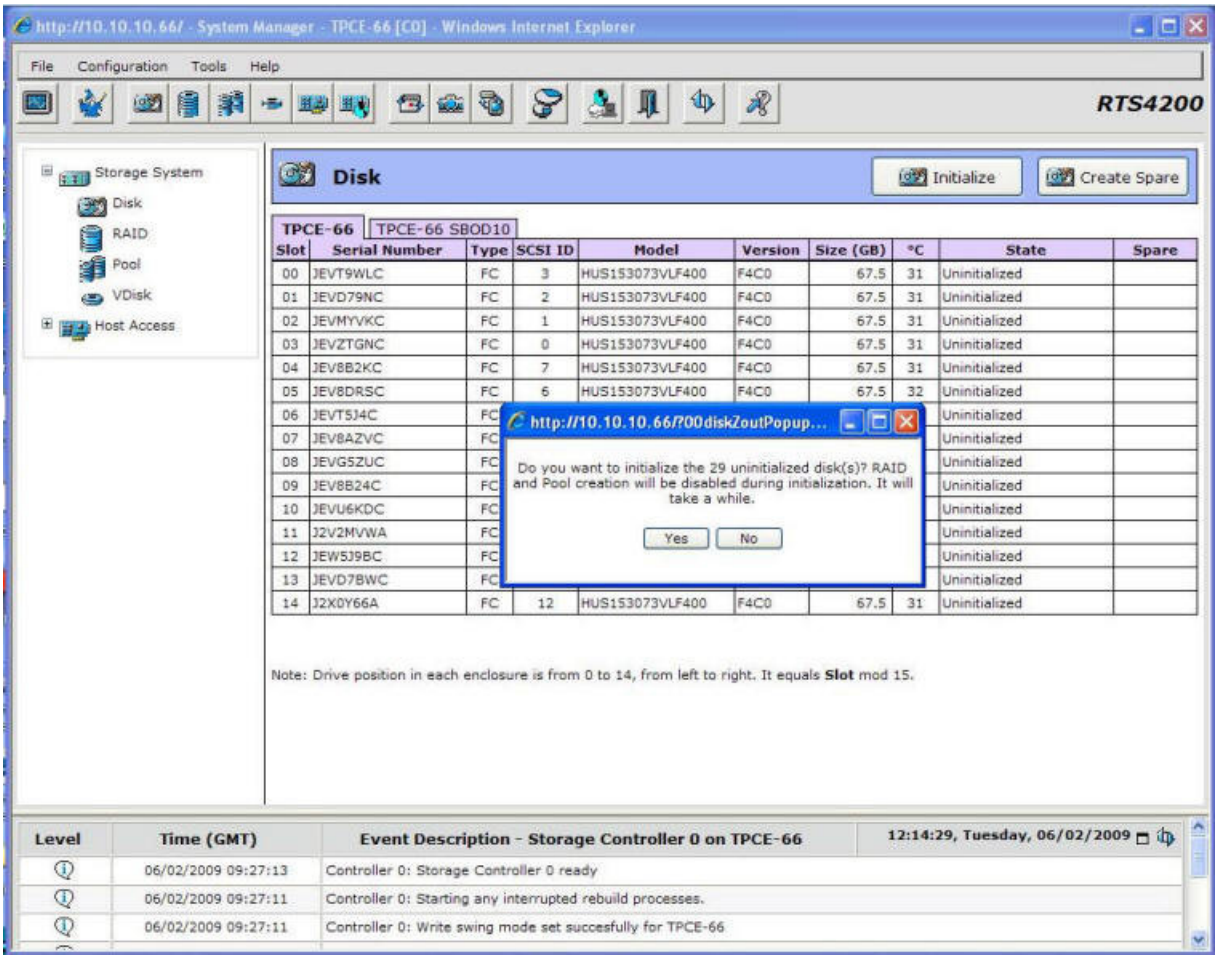
Click on the + box by Storage System to expand options.



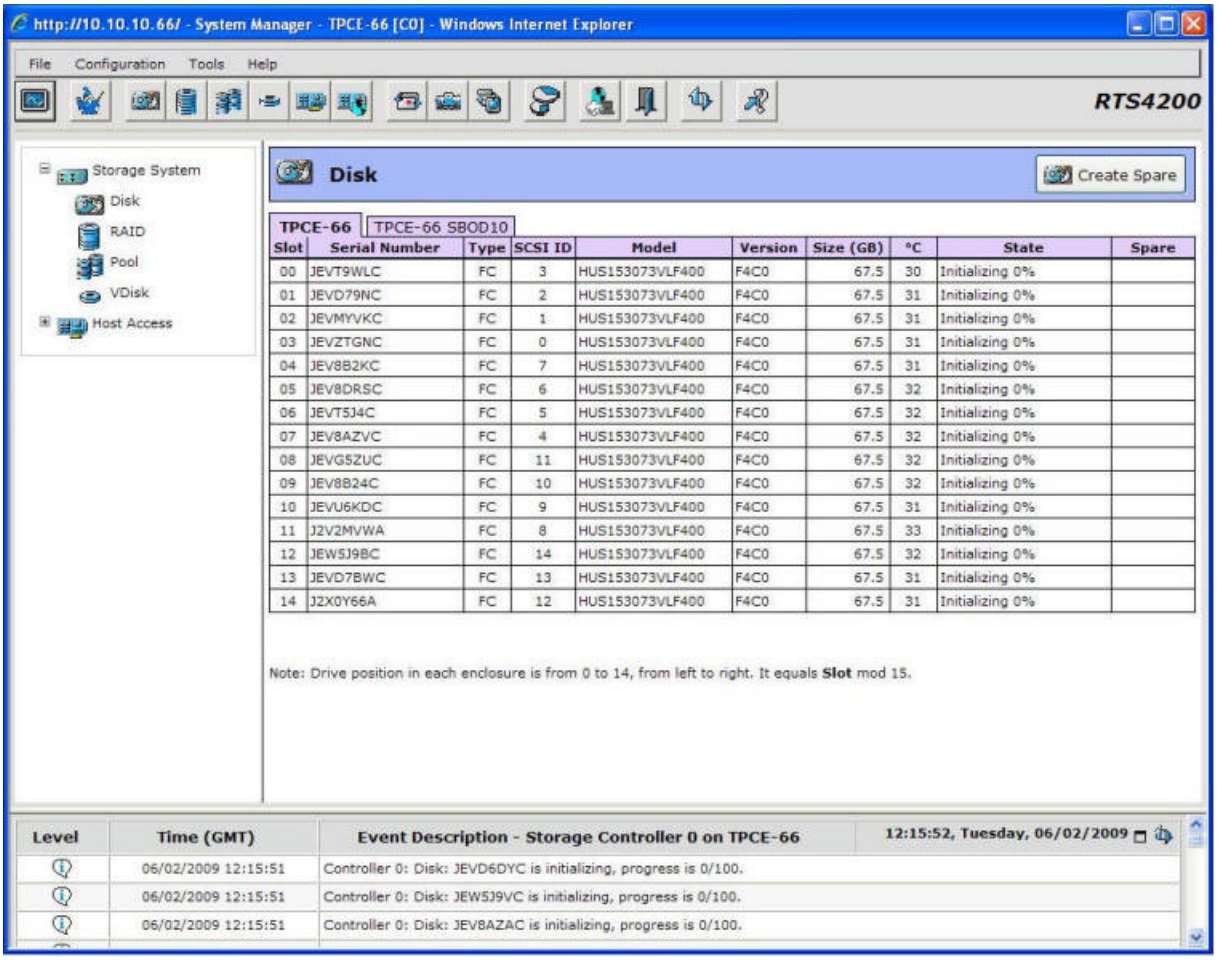
Click on Disk under Storage System.



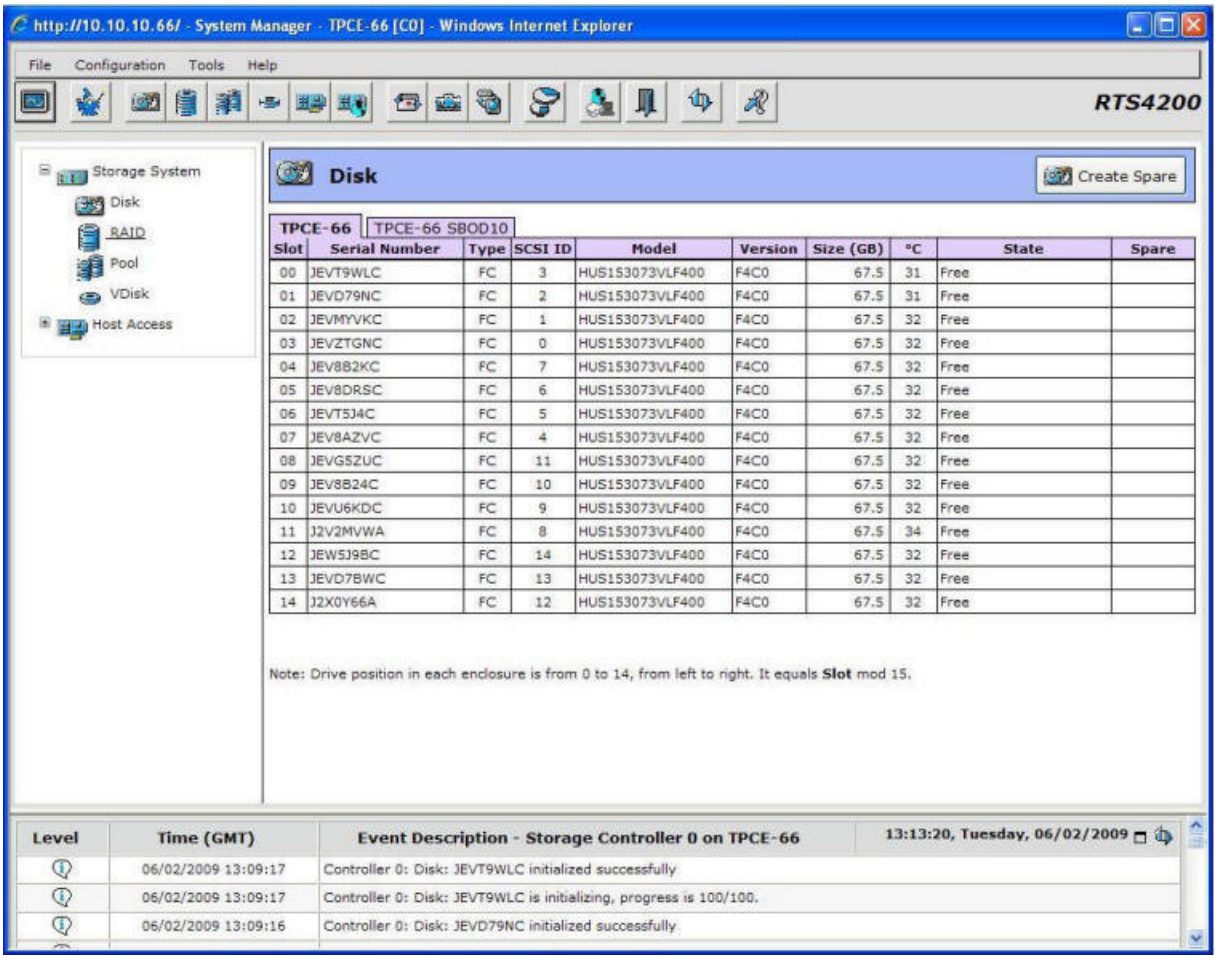
If there are uninitialized disks, click on Initialize.



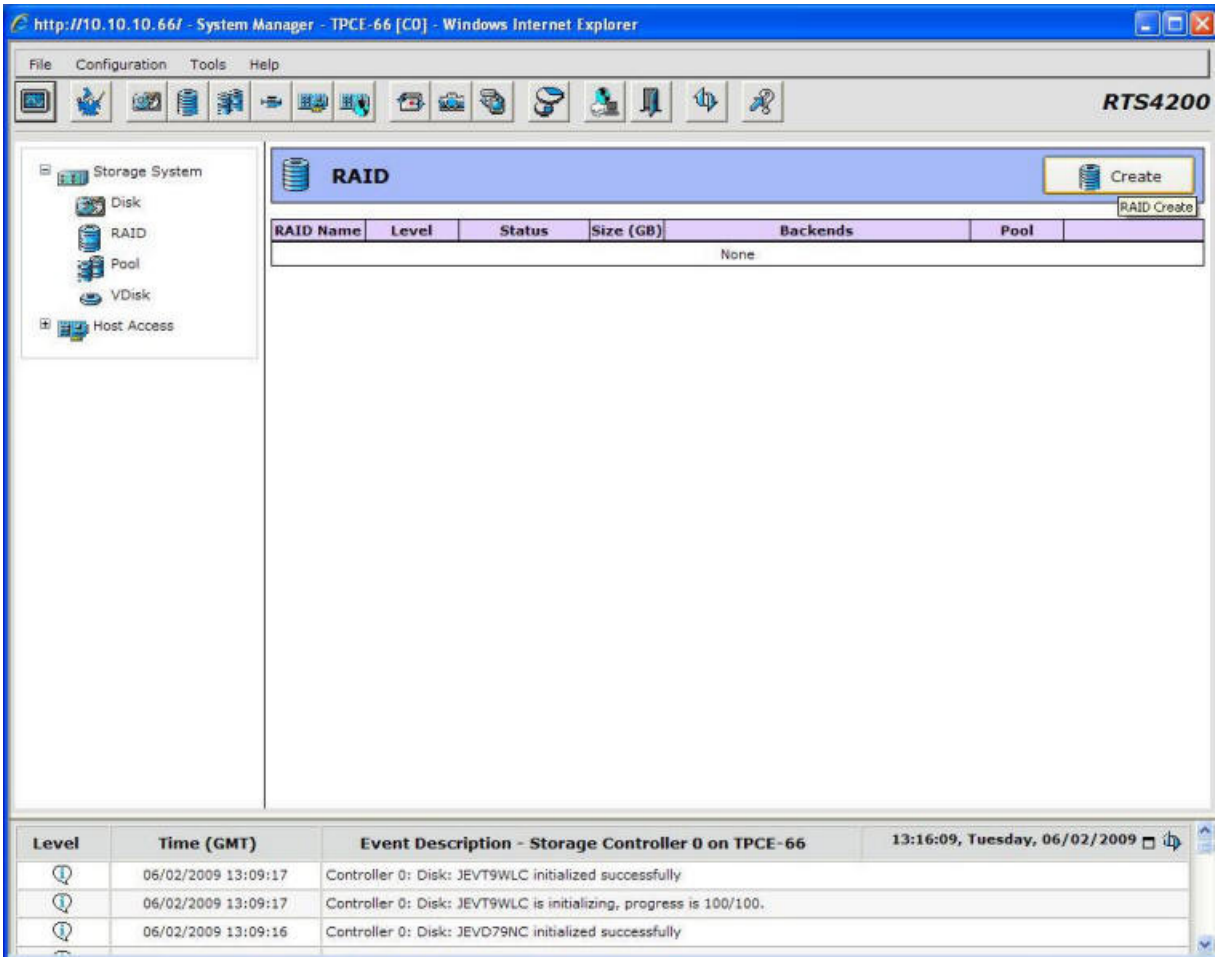
Click on Yes to start initializing disks.



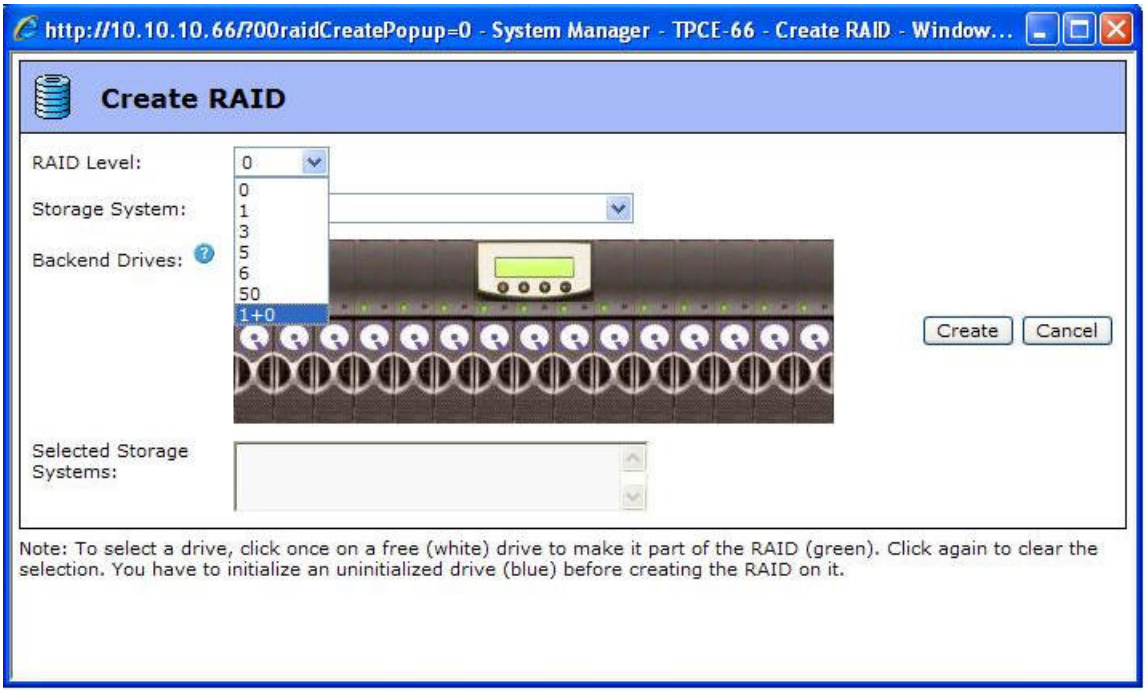
Wait for all disks to go free.



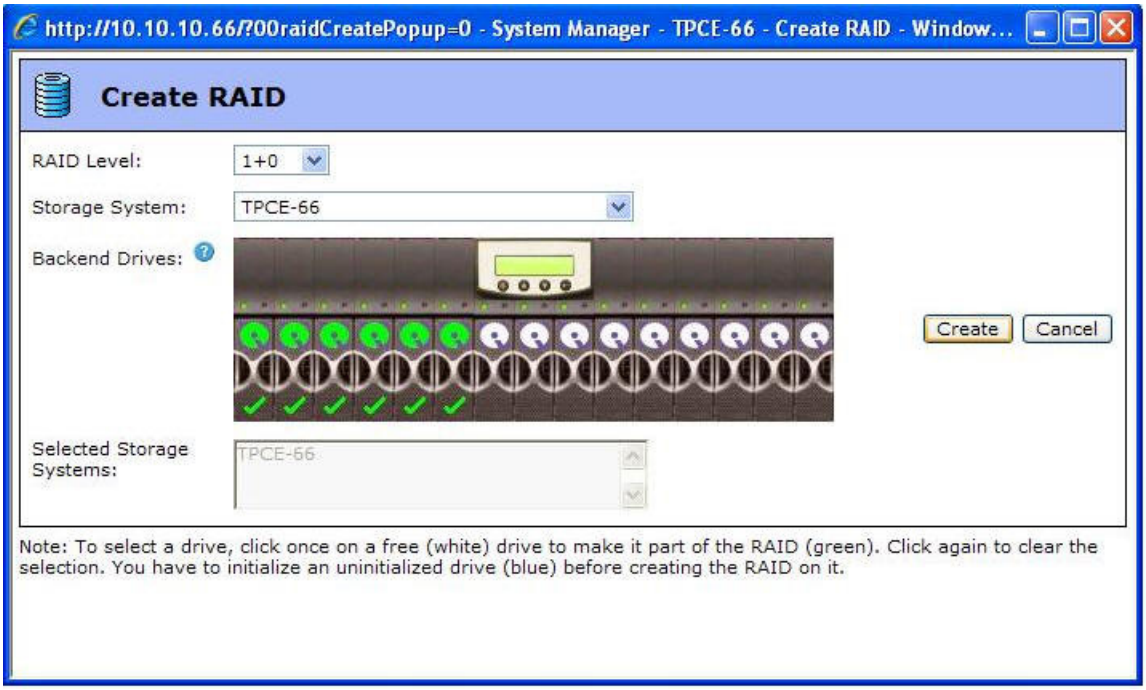
Disks are now free click on RAID.



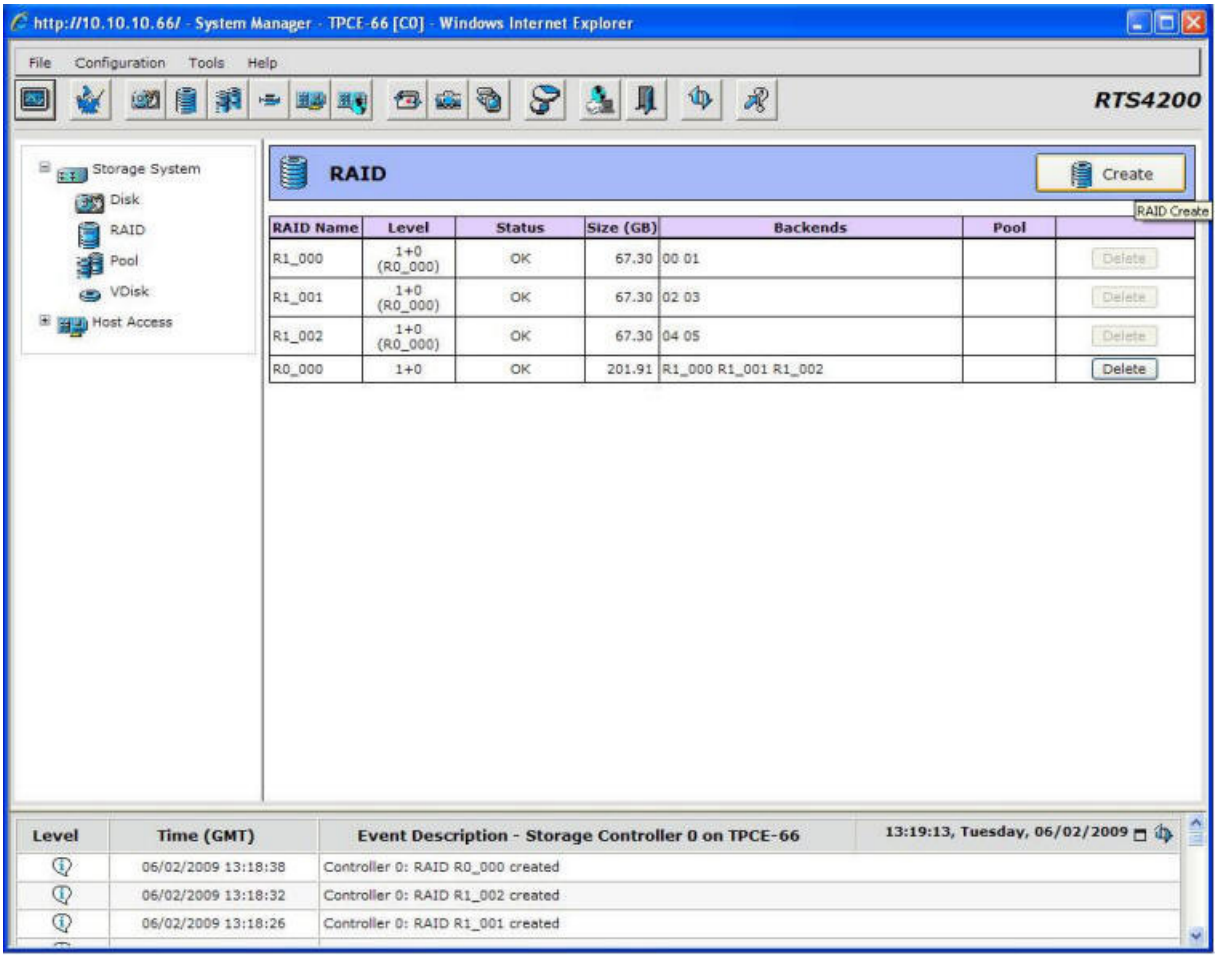
Click on Create.



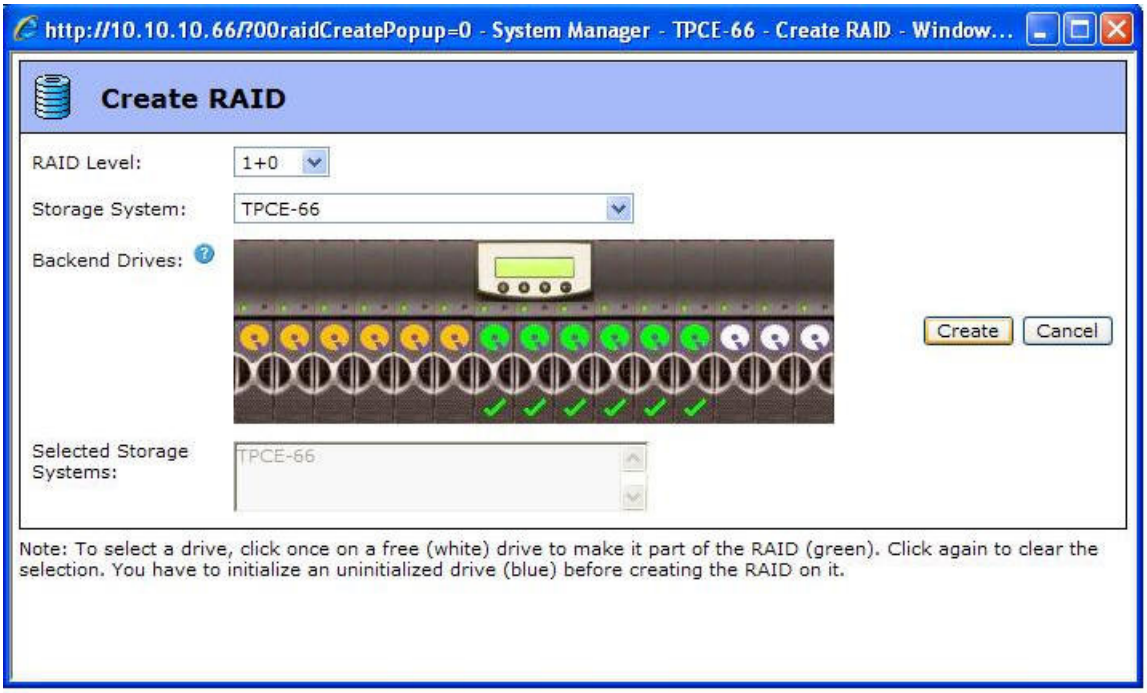
Select RAID Level 1+0 for RAID 10.



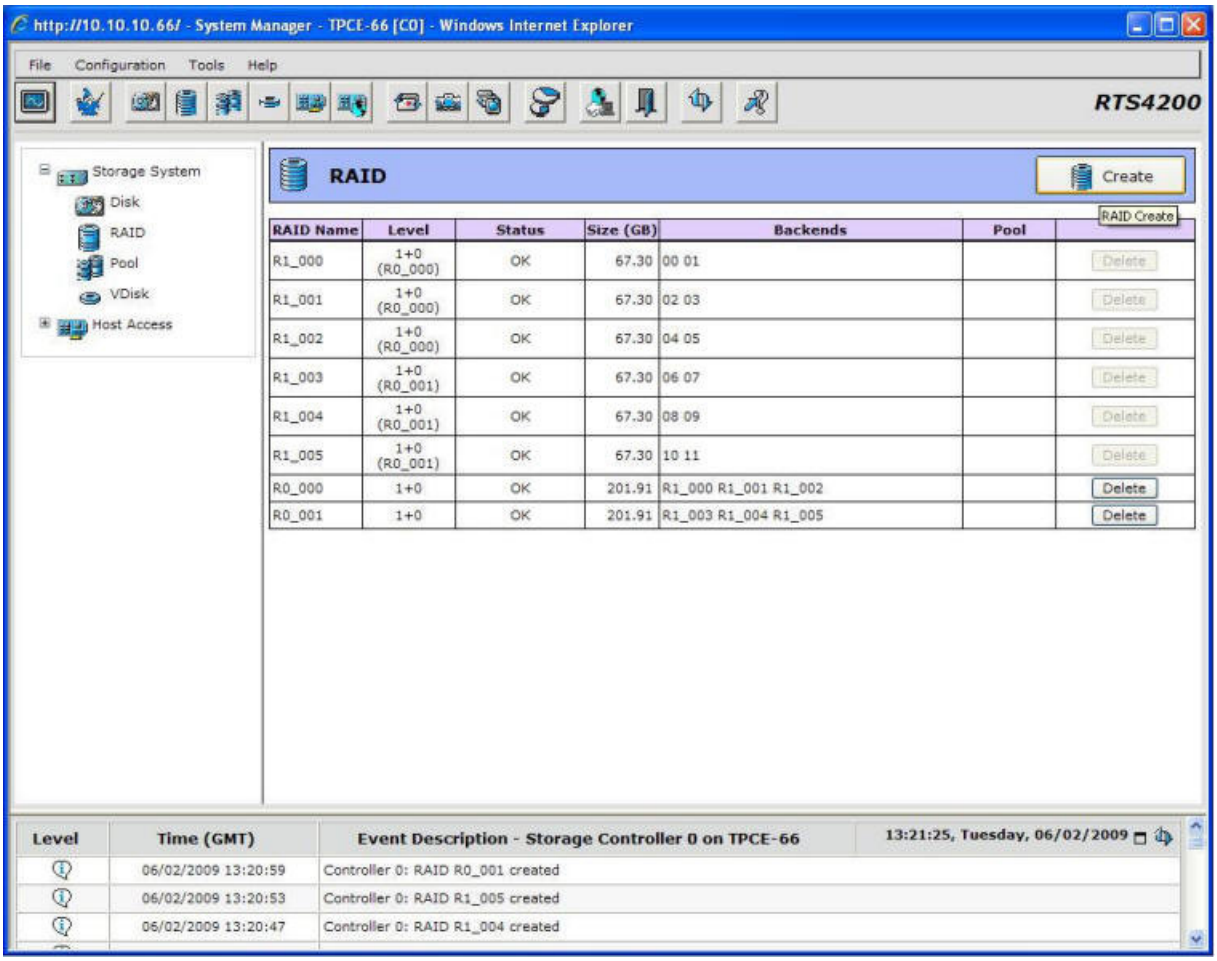
Click on the first 6 disks to select them and then click on Create.



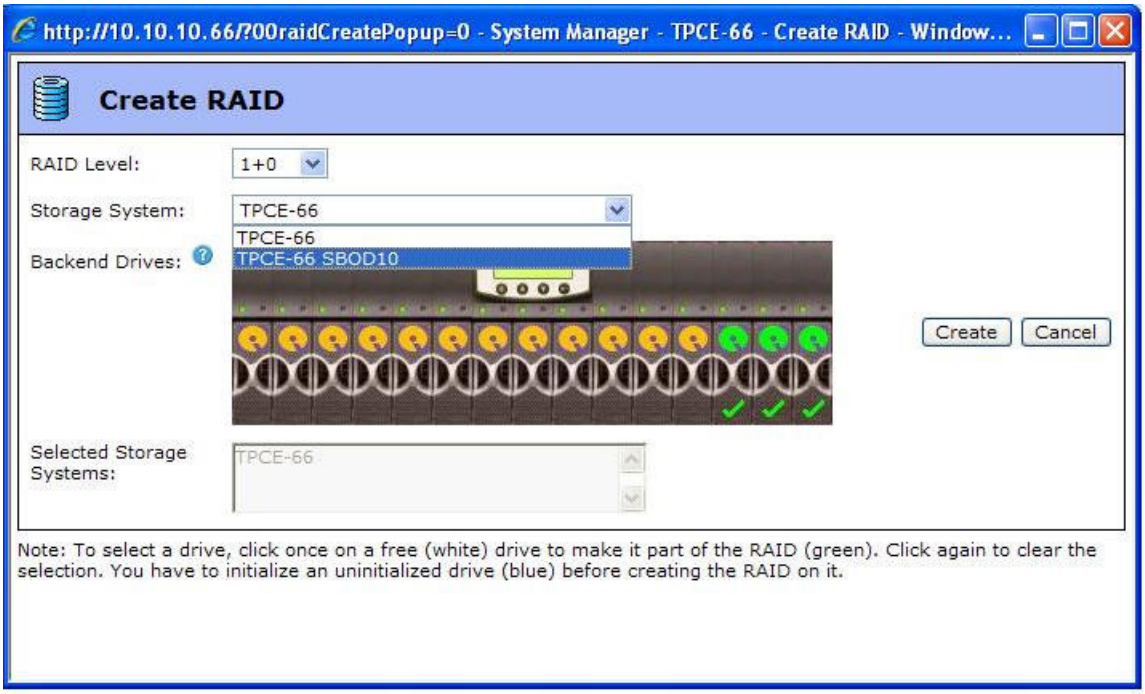
This is the first of five 6 drive RAID 10 arrays. Click on Create to start the next array.



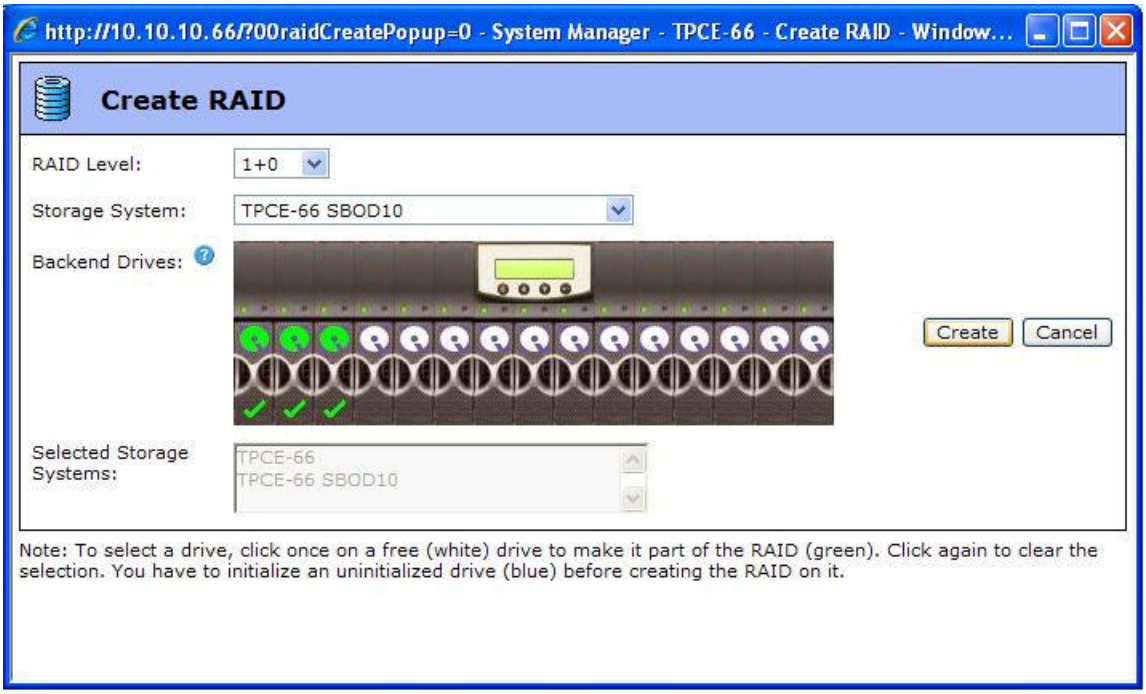
Select RAID Level 1+0. Select the next 6 drives and click Create.



Click on Create to start the next array.

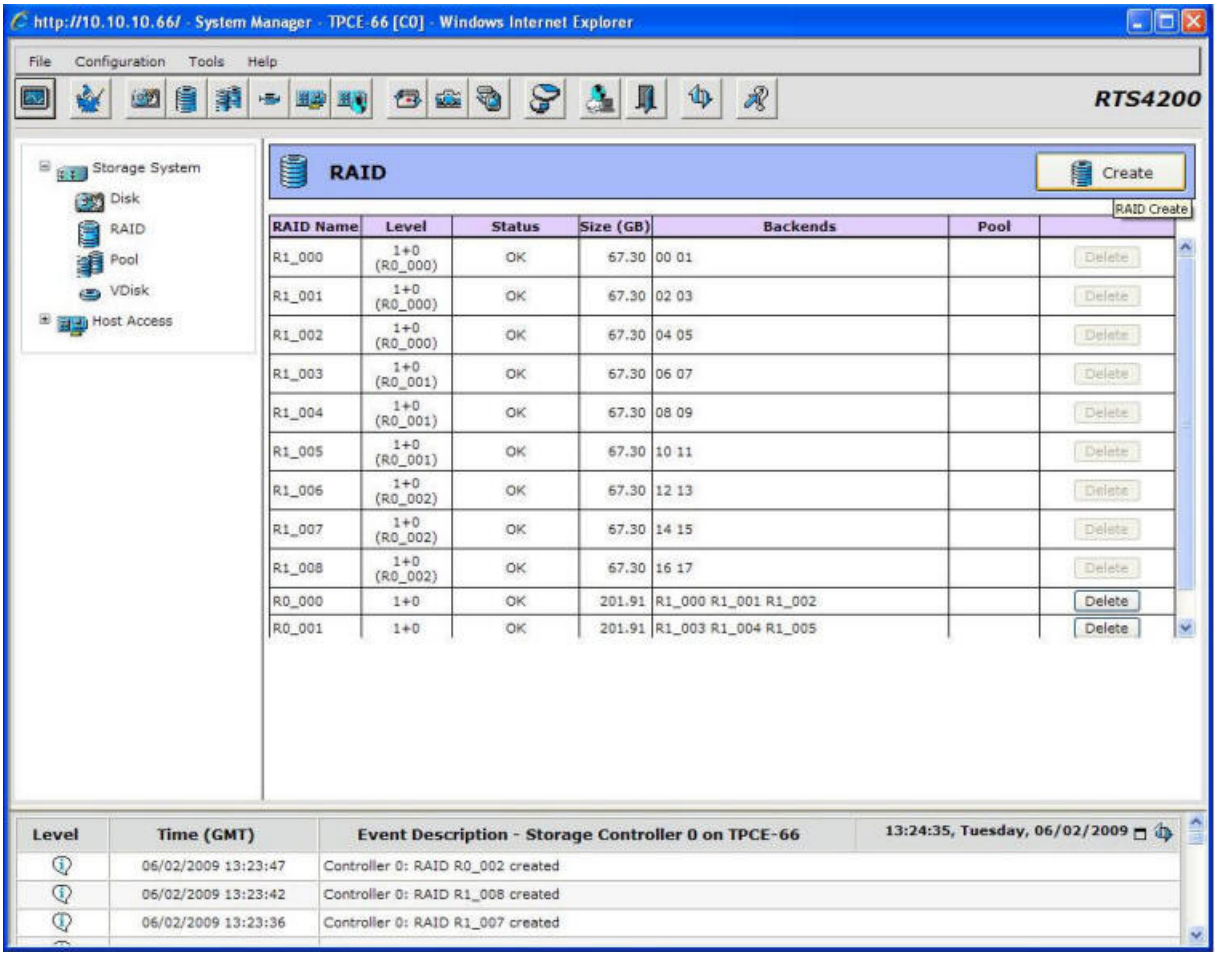


Select RAID Level 0+1.Click on the last 3 disks to select them. Then click on the Storage System drop down box and select the expansion SBOD rack.

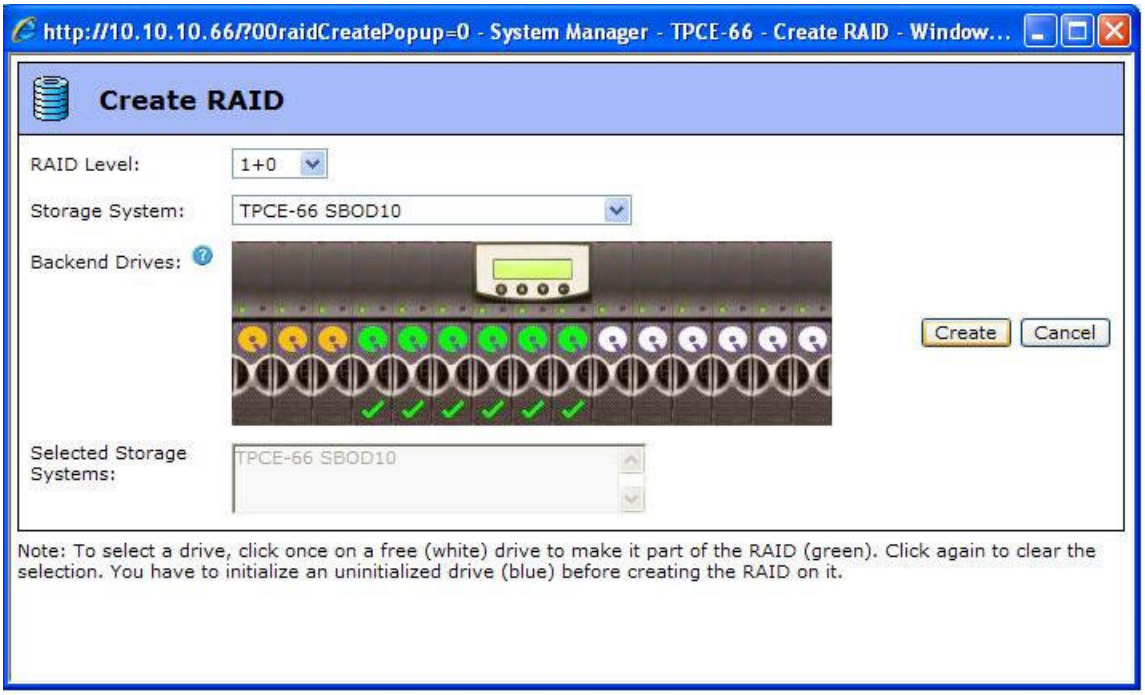


Select the first 3 disk by clicking on them to turn them green. Now click on Create to create the

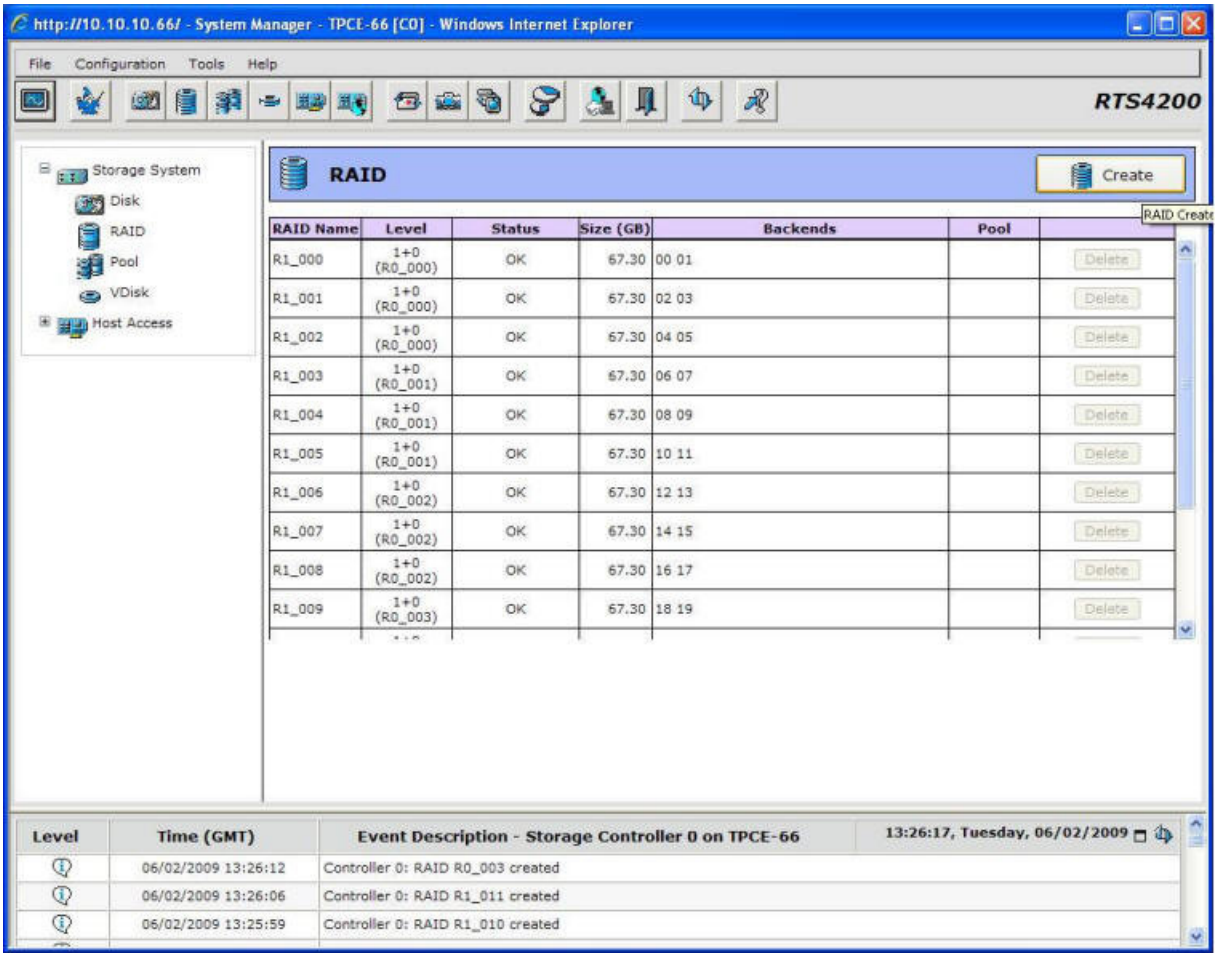
RAID 10 array.



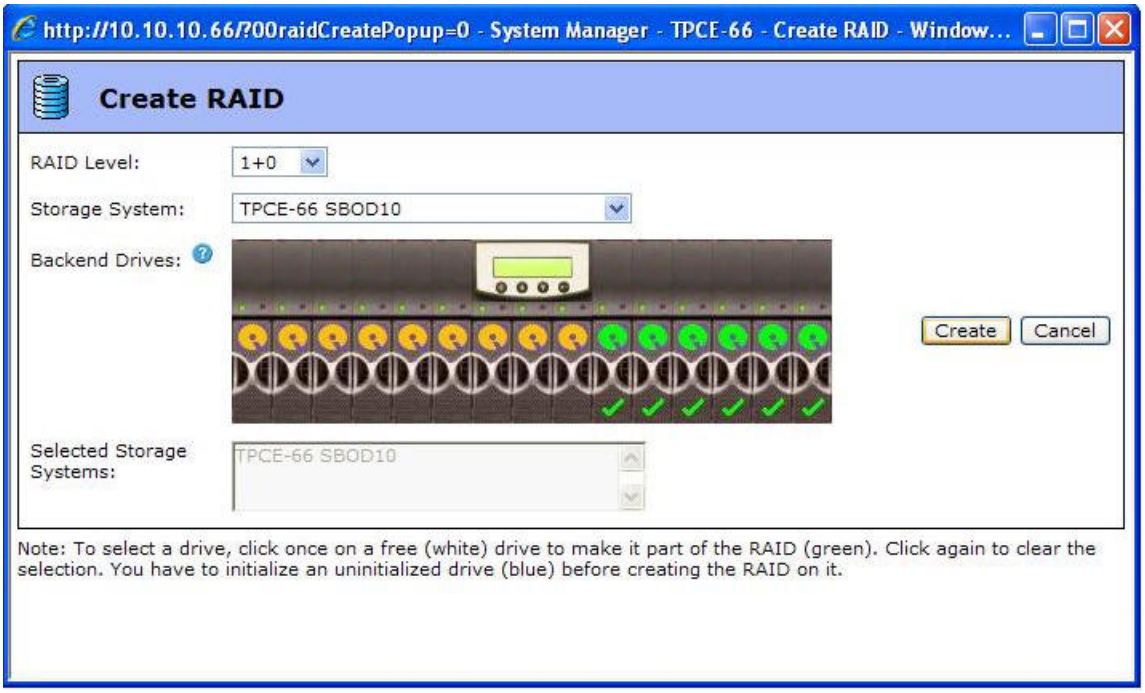
Click on Create to start the next array.



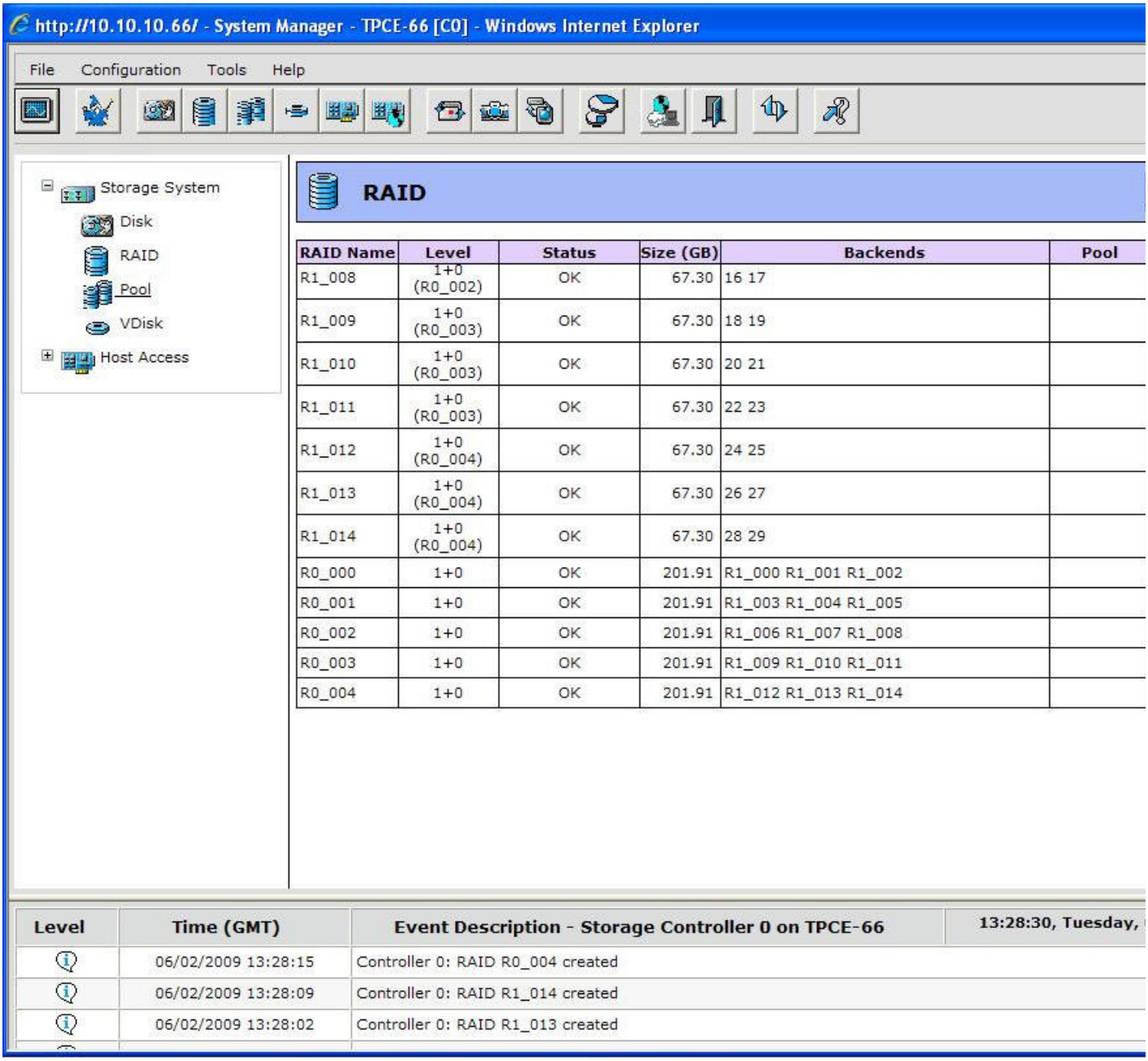
Select RAID 1+0 from the RAID Level drop down box. Then click on the Storage System drop down box and select the expansion SBOD rack. Select the next 6 disks and click on Create.



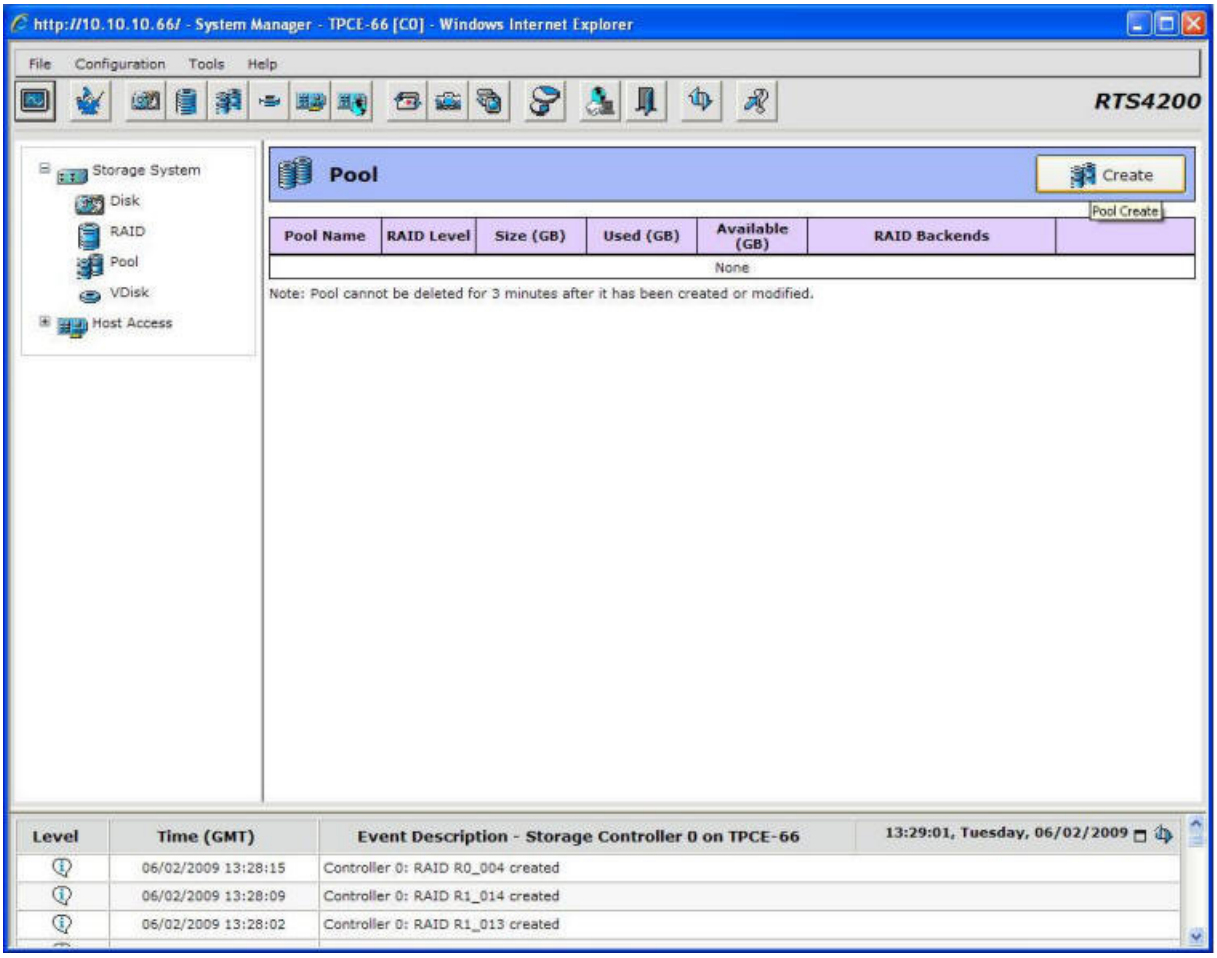
Click on Create to start the next array.



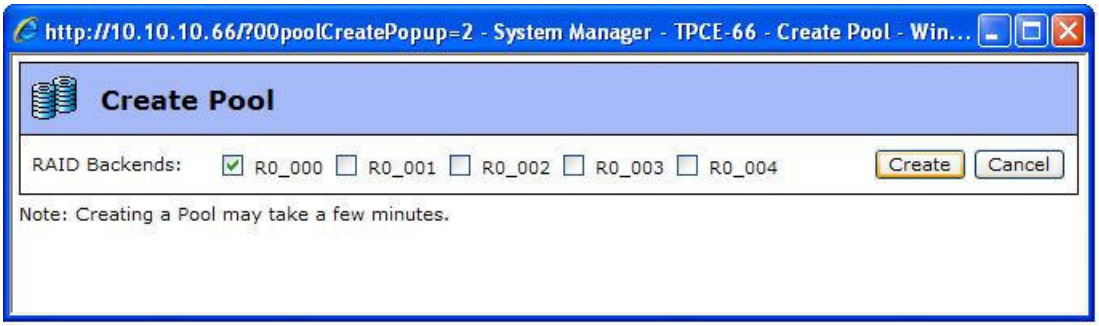
Select RAID 1+0 from the RAID Level drop down box. Then click on the Storage System drop down box and select the expansion SBOD rack. Select the next 6 disks and click on Create.



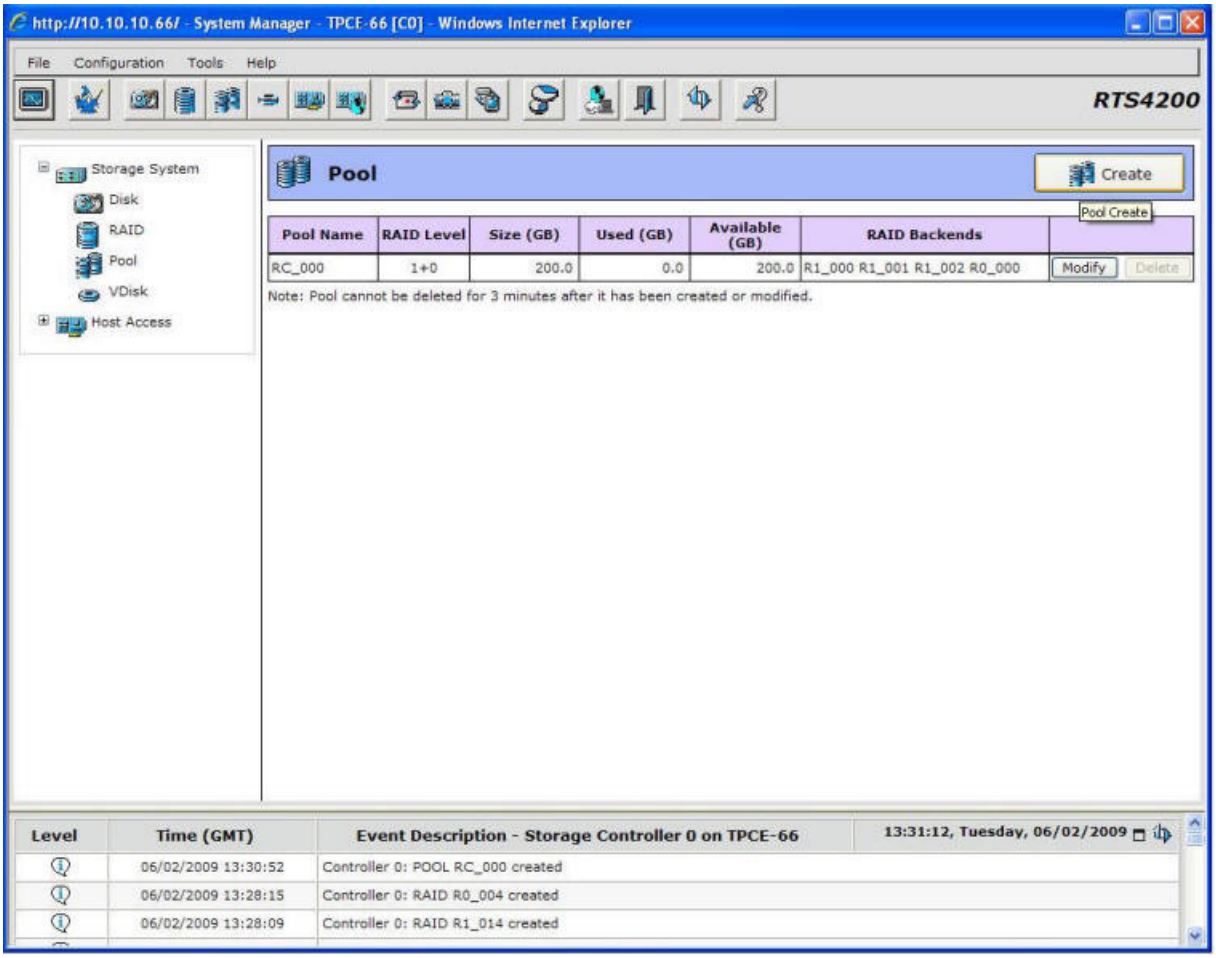
Five 6 drive RAID 10 arrays have been created. Pool's are next. Click on Pool.



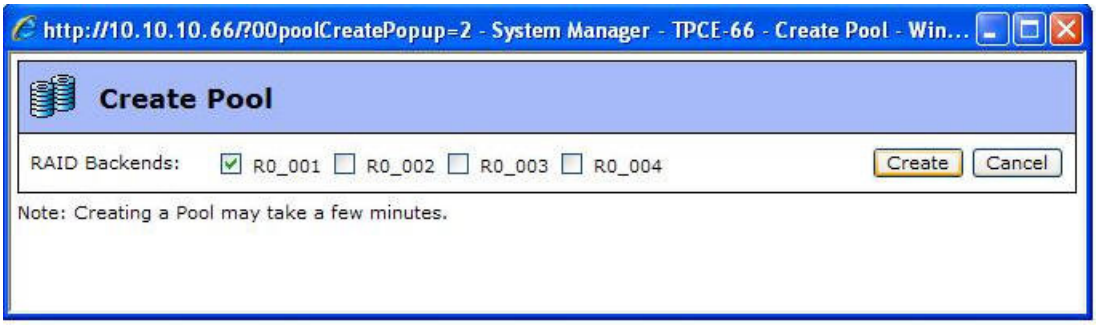
Click on Create to start creating Pools.



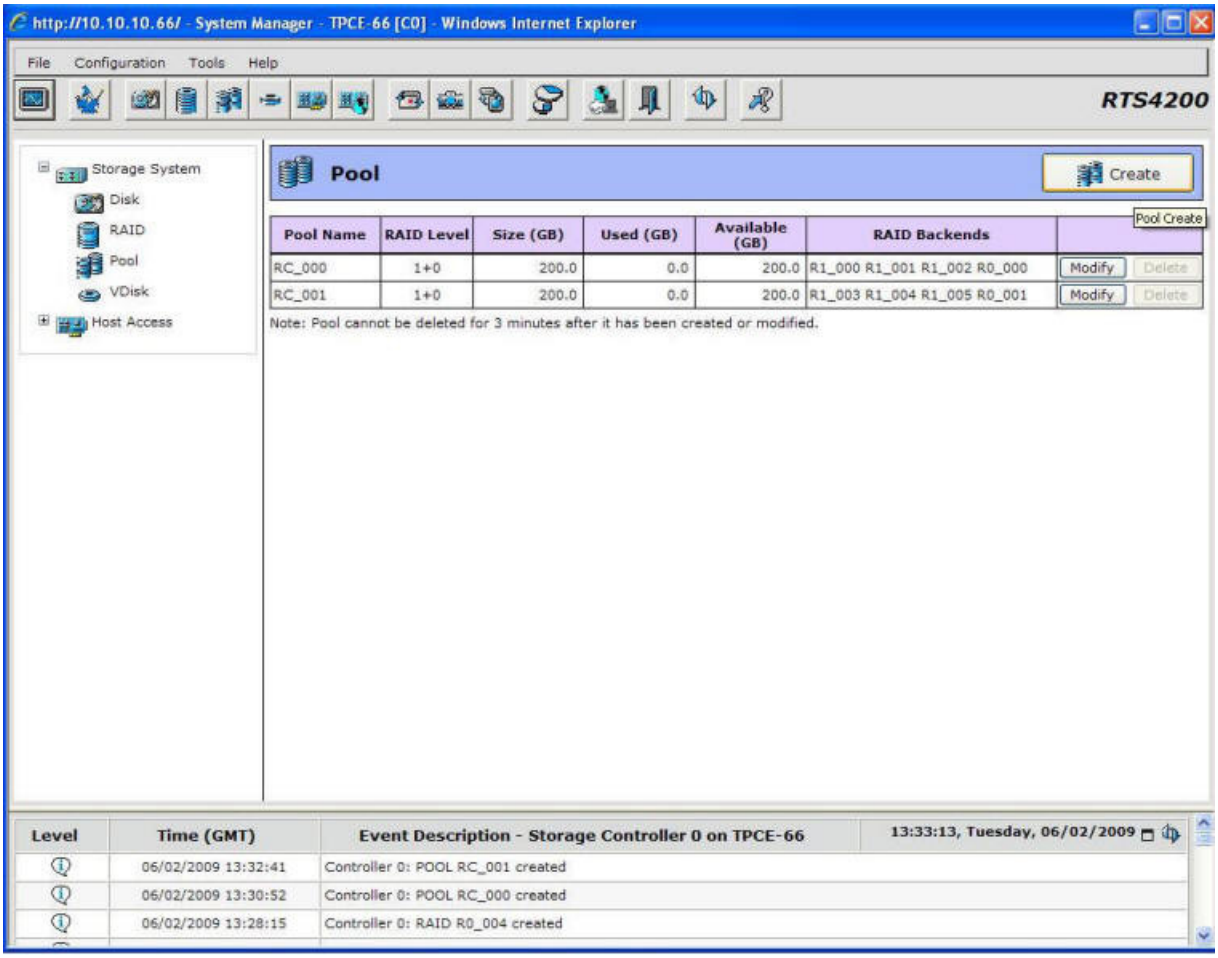
Click on the box in front of R0_000 and then click on Create.



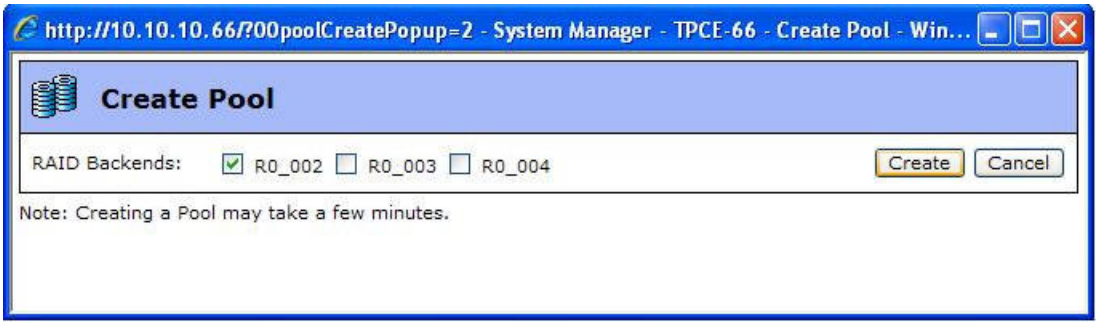
Click on Create to make the next Pool.



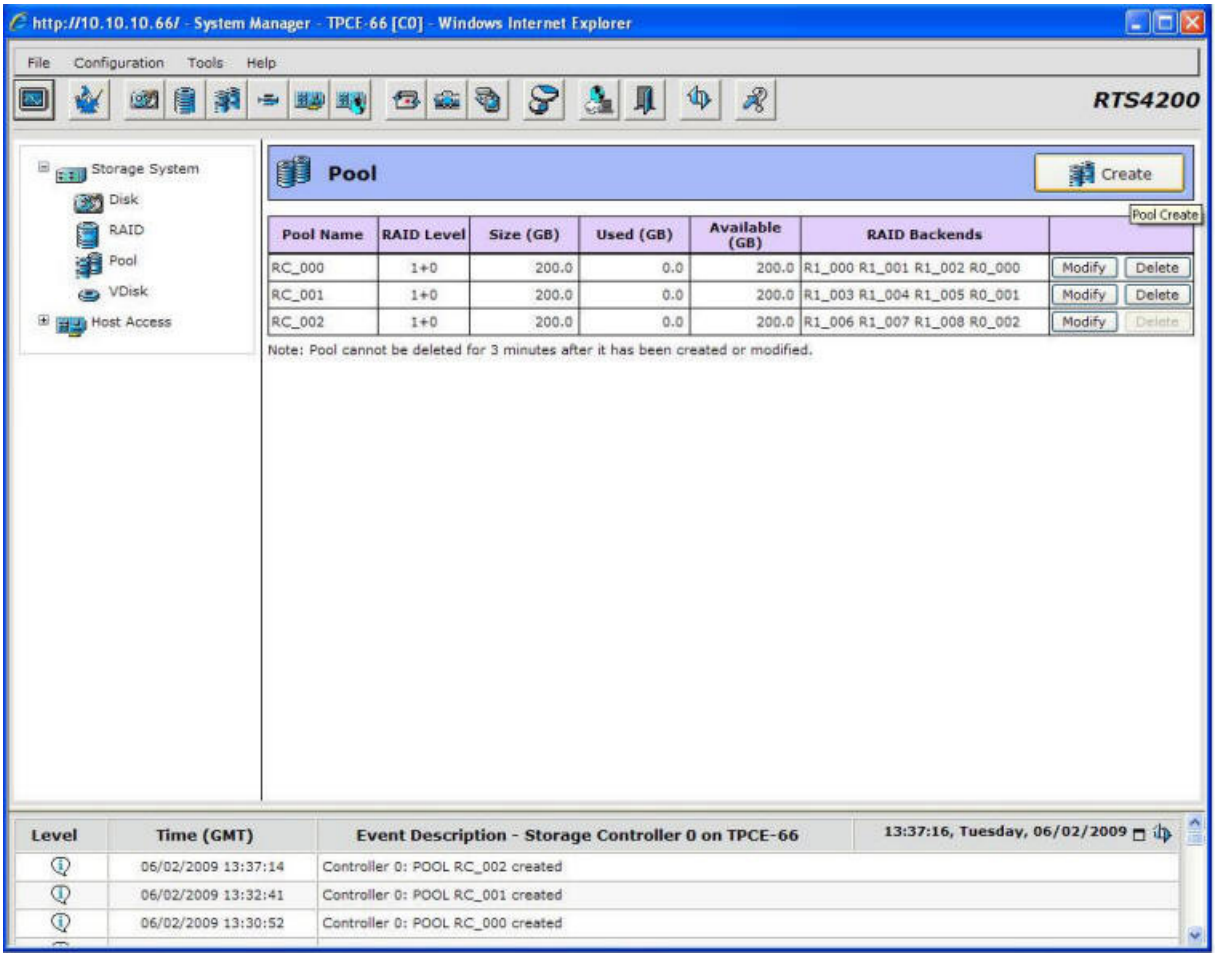
Click on the box in front of R0_001 and then click on Create.



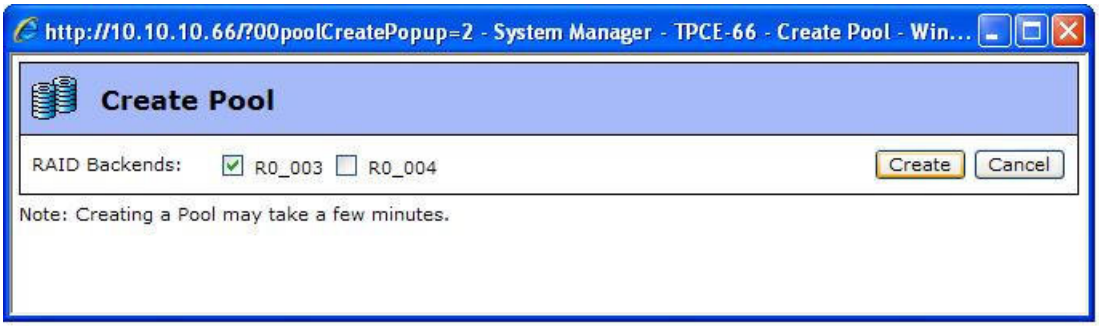
Click on Create to make the next Pool.



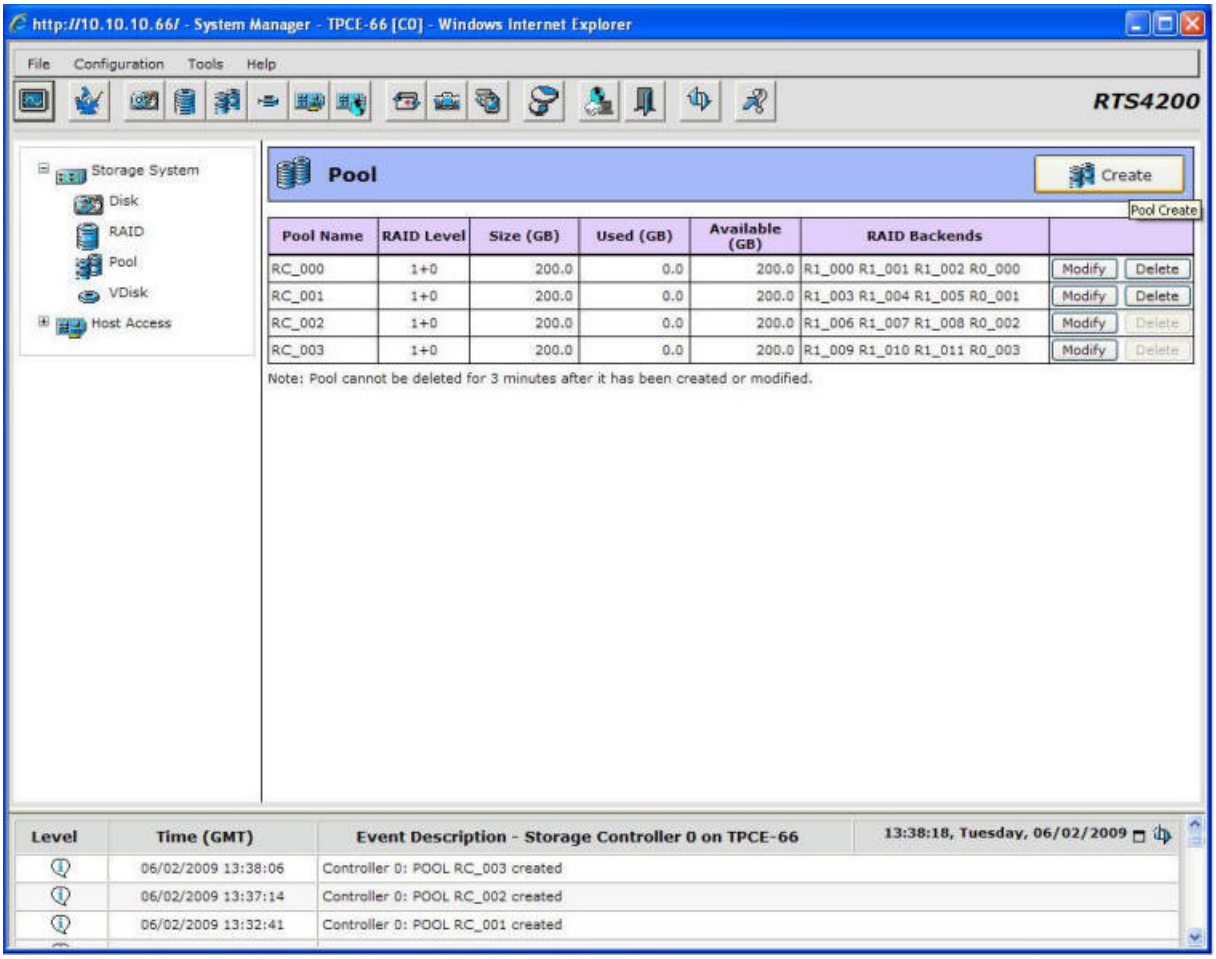
Click on the box in front of R0_002 and then click on Create.



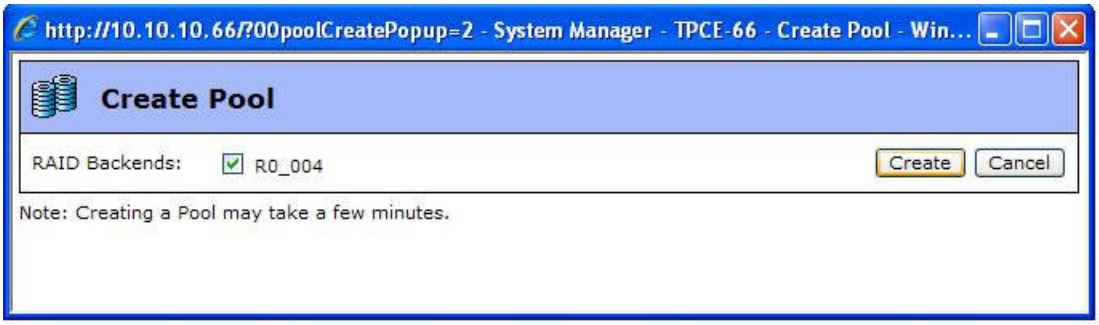
Click on Create to make the next Pool.



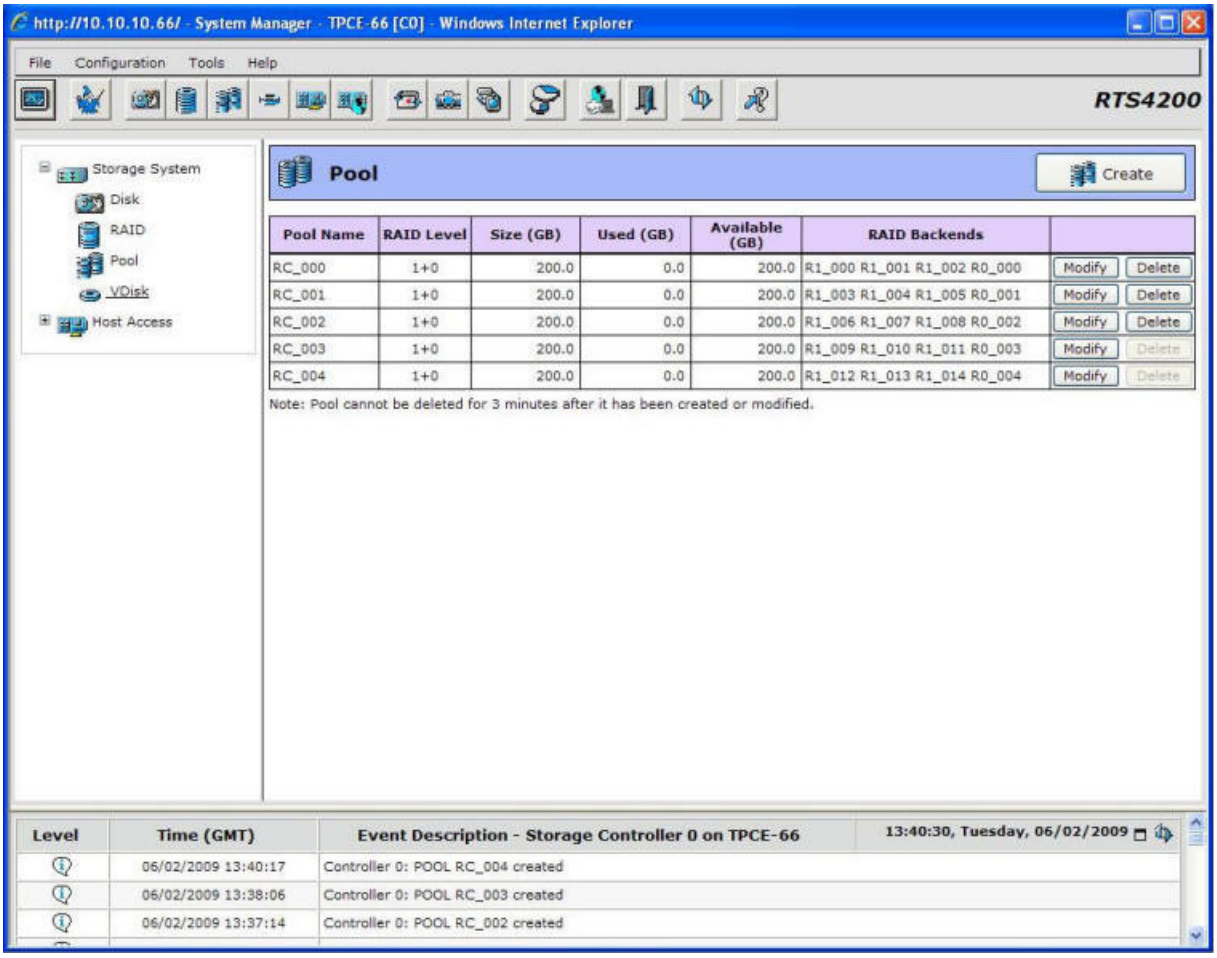
Click on the box in front of R0_003 and then click on Create.



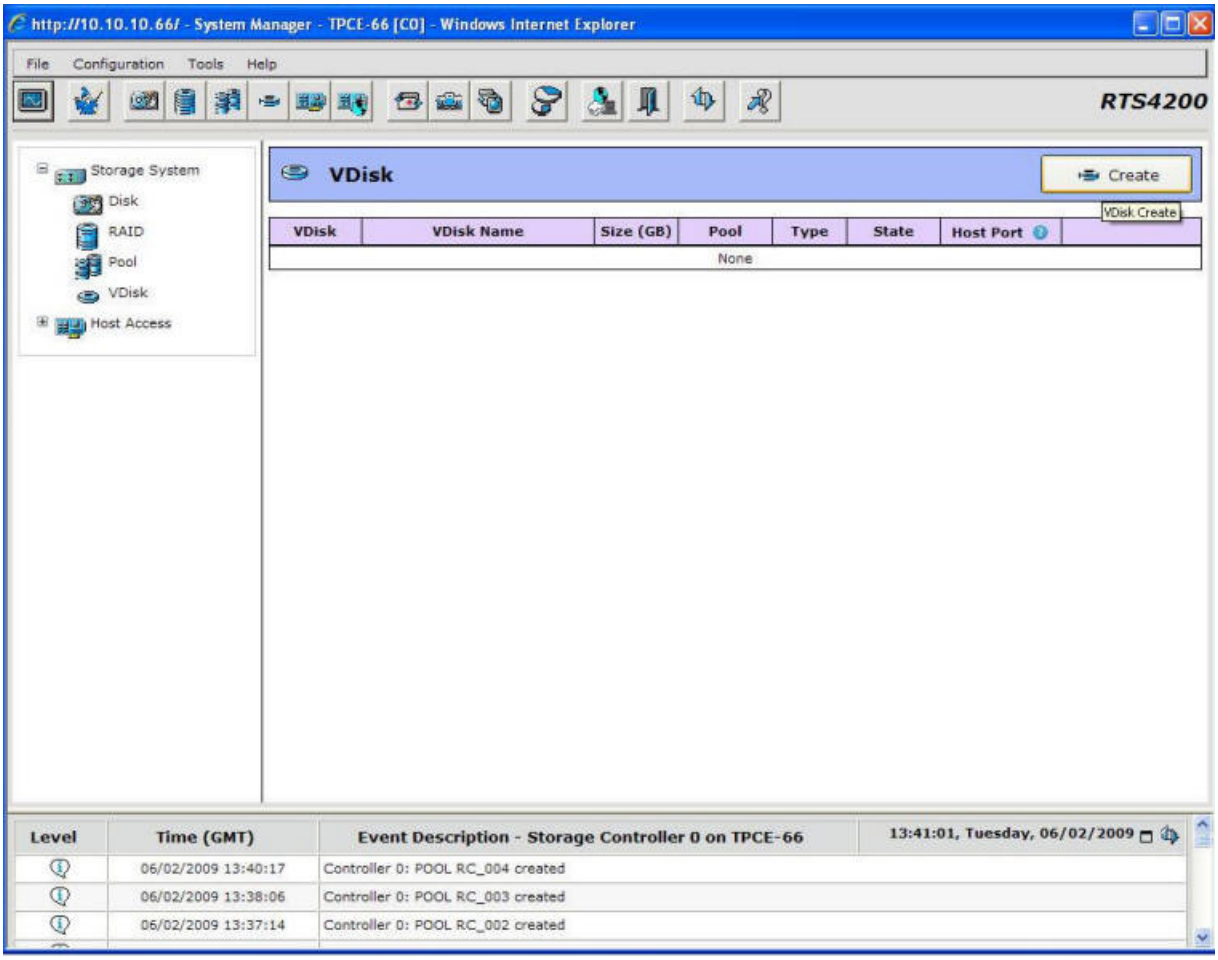
Click on Create to make the next Pool.



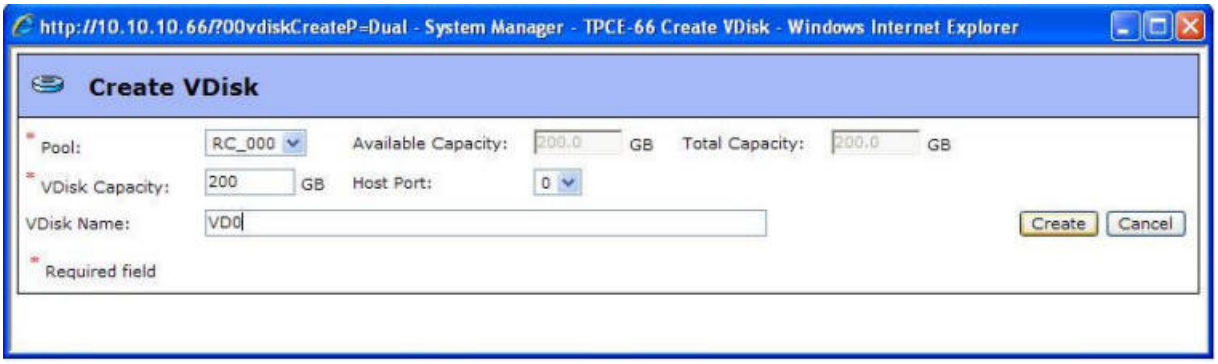
Click on the box in front of R0_004 and then click on Create.



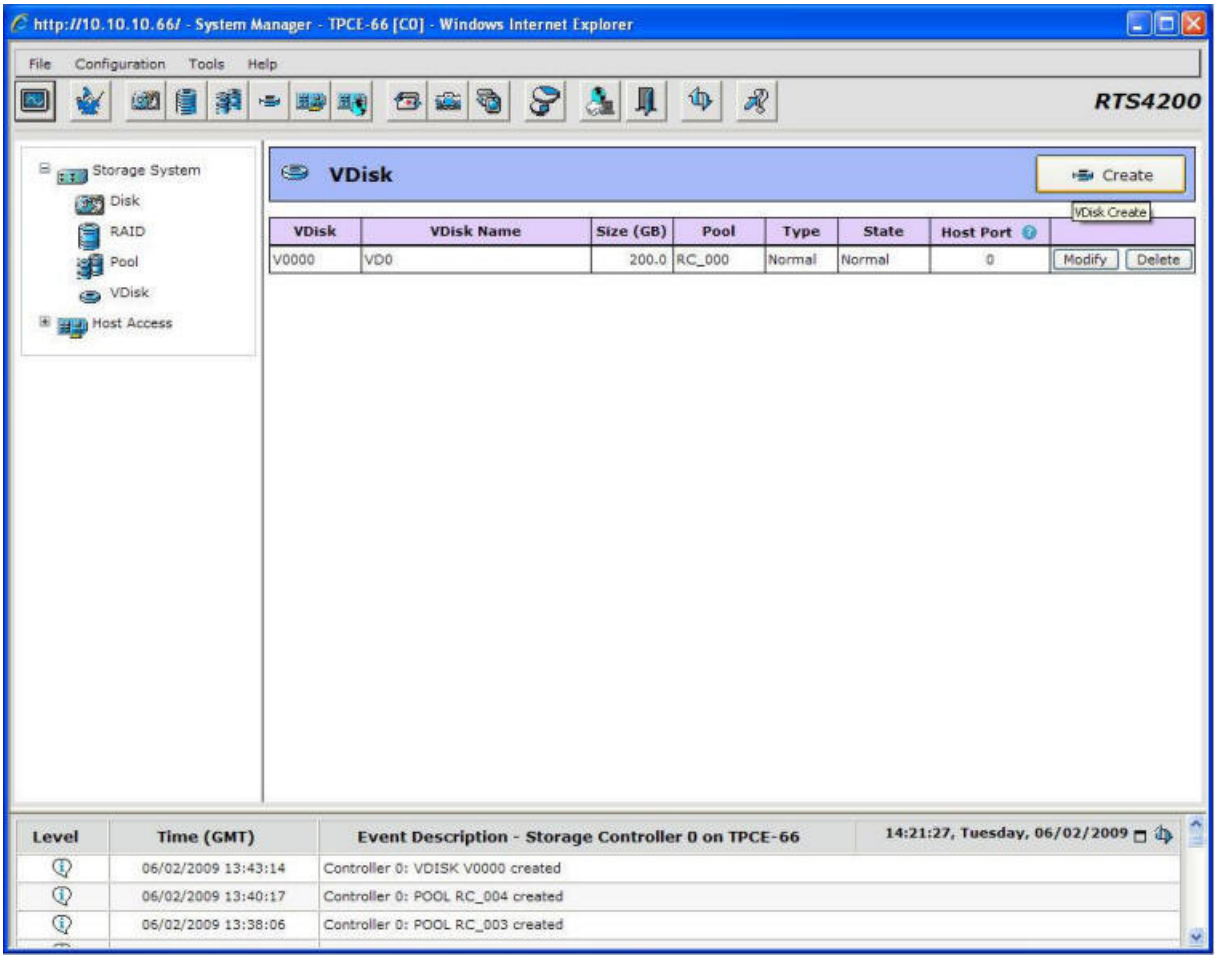
Click on VDisk to start creating virtual disks.



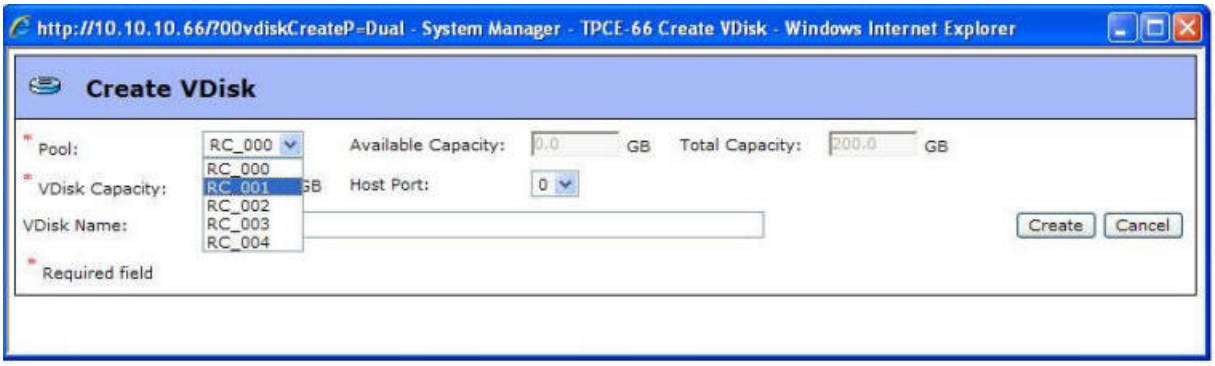
Click on Create to start creating virtual disks.



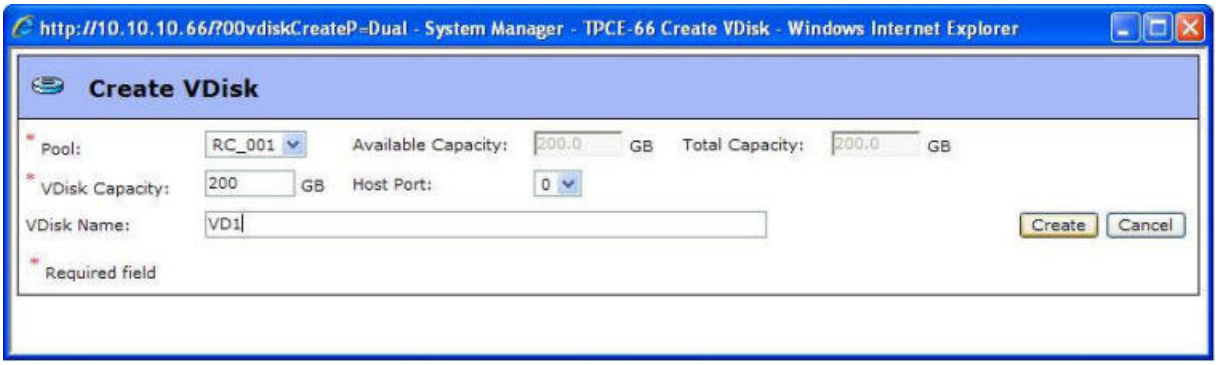
Enter 200 in the VDisk Capacity box which is the Available Capacity. Enter a VDisk Name and click on Create.



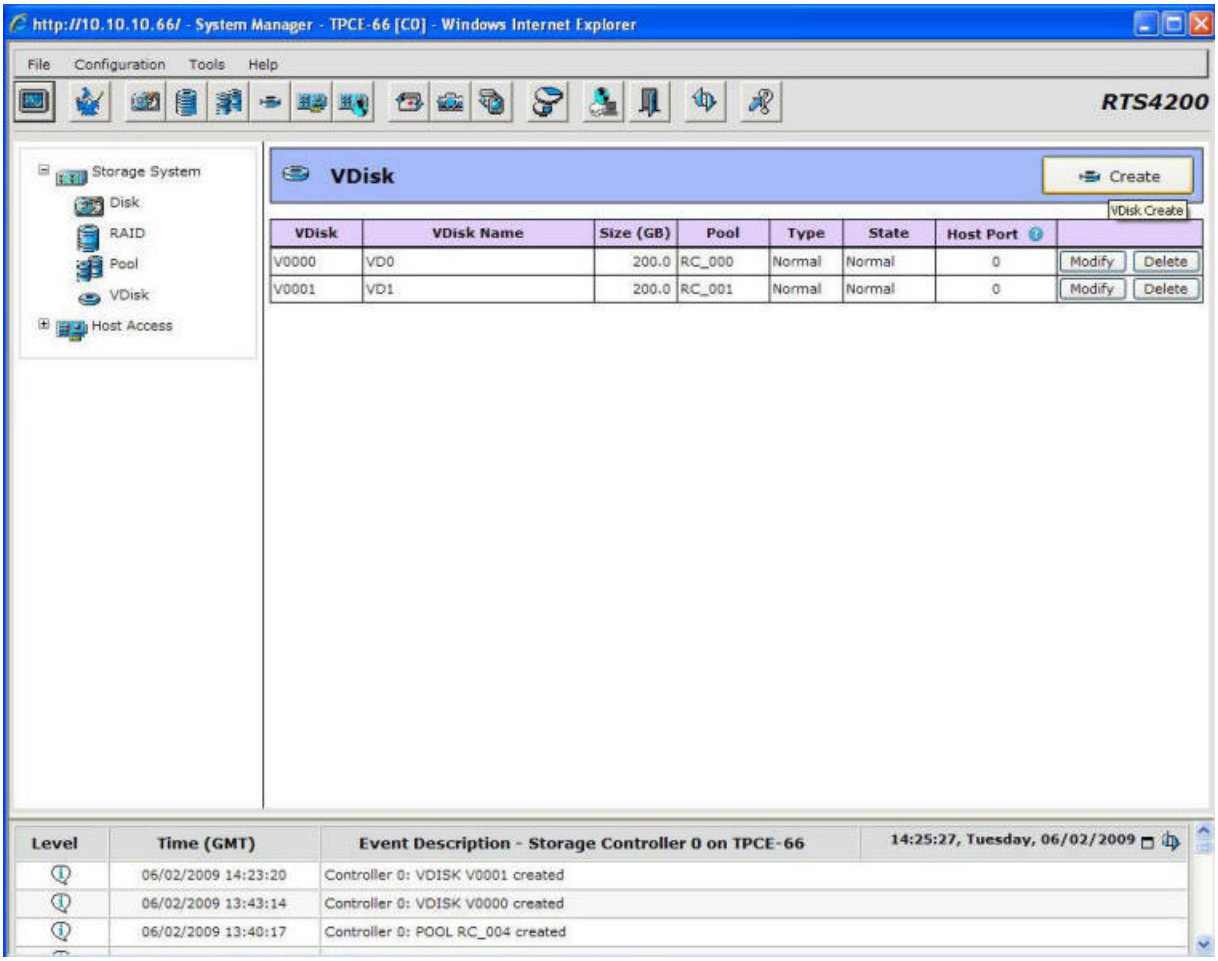
Click on Create to make the second VDisk.



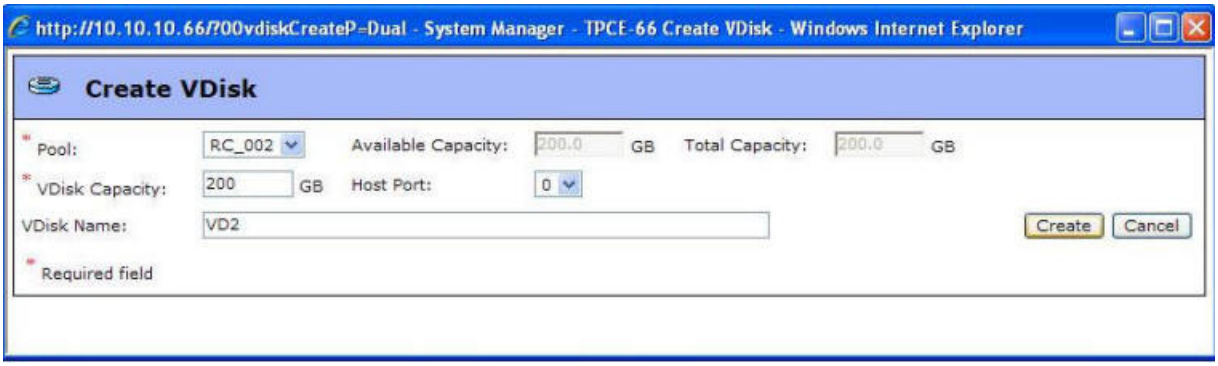
Click on the Pool drop down to select Pool RC_001.



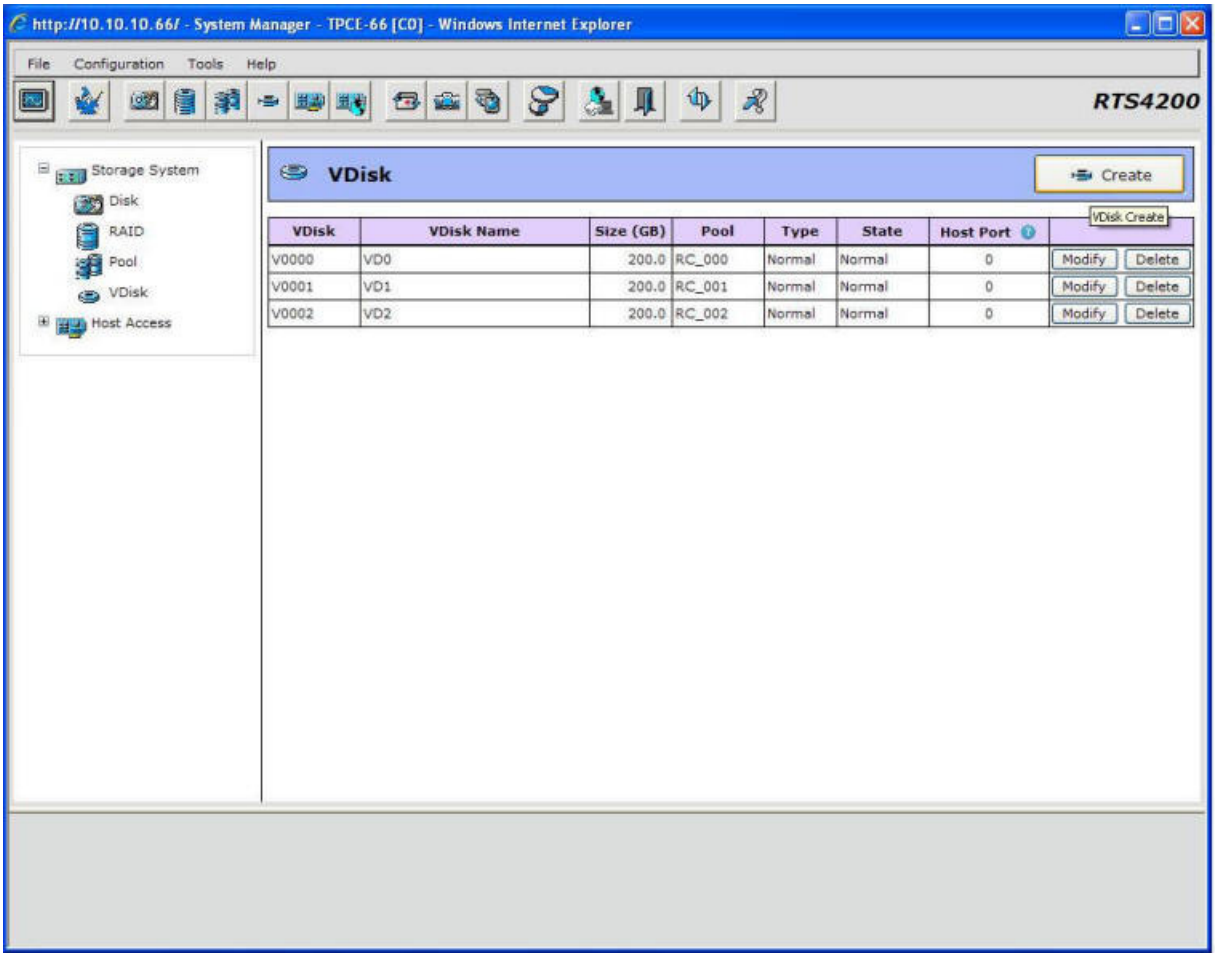
Enter the Available Capacity 200 into the VDisk Capacity box and enter a VDisk Name. Than click Create.



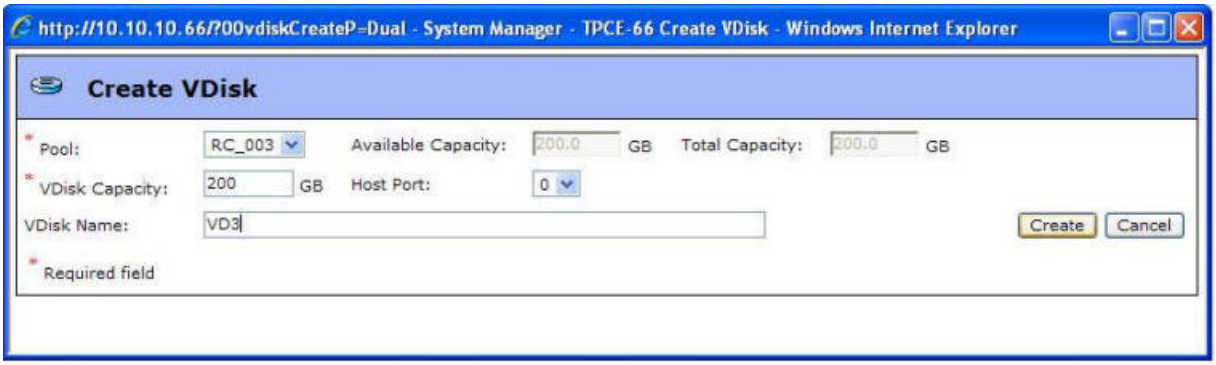
Click on Create to make the next VDisk.



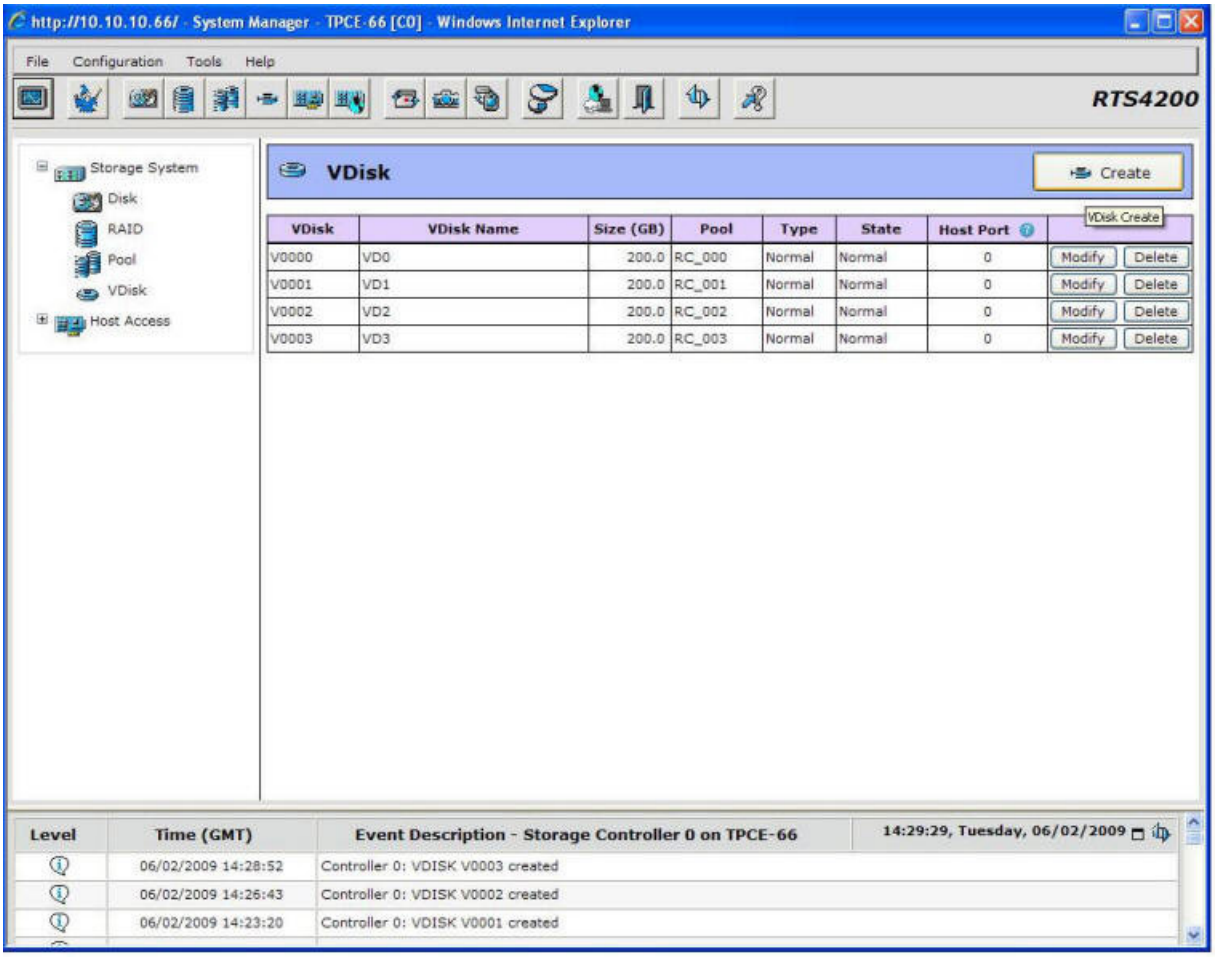
Select Pool RC_002. Enter the Available Capacity 200 into the VDisk Capacity box and enter a VDisk Name. Than click Create.



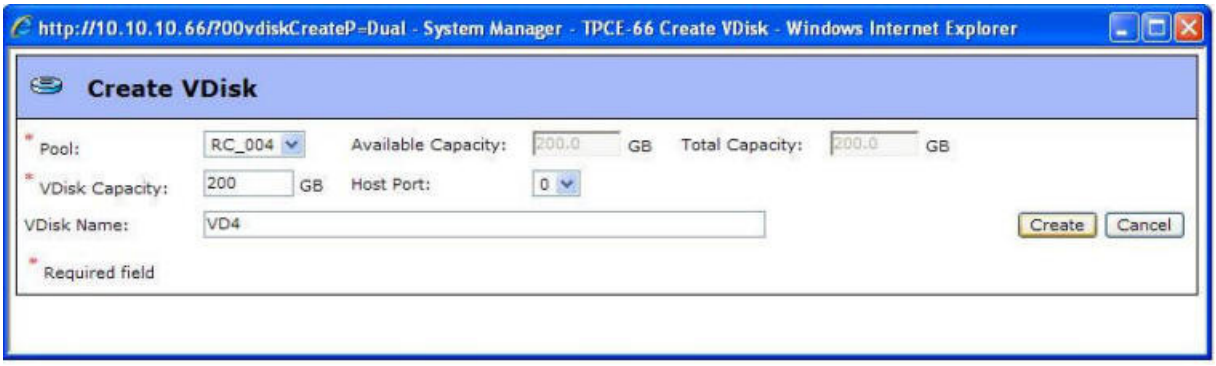
Click on Create to make the next VDisk.



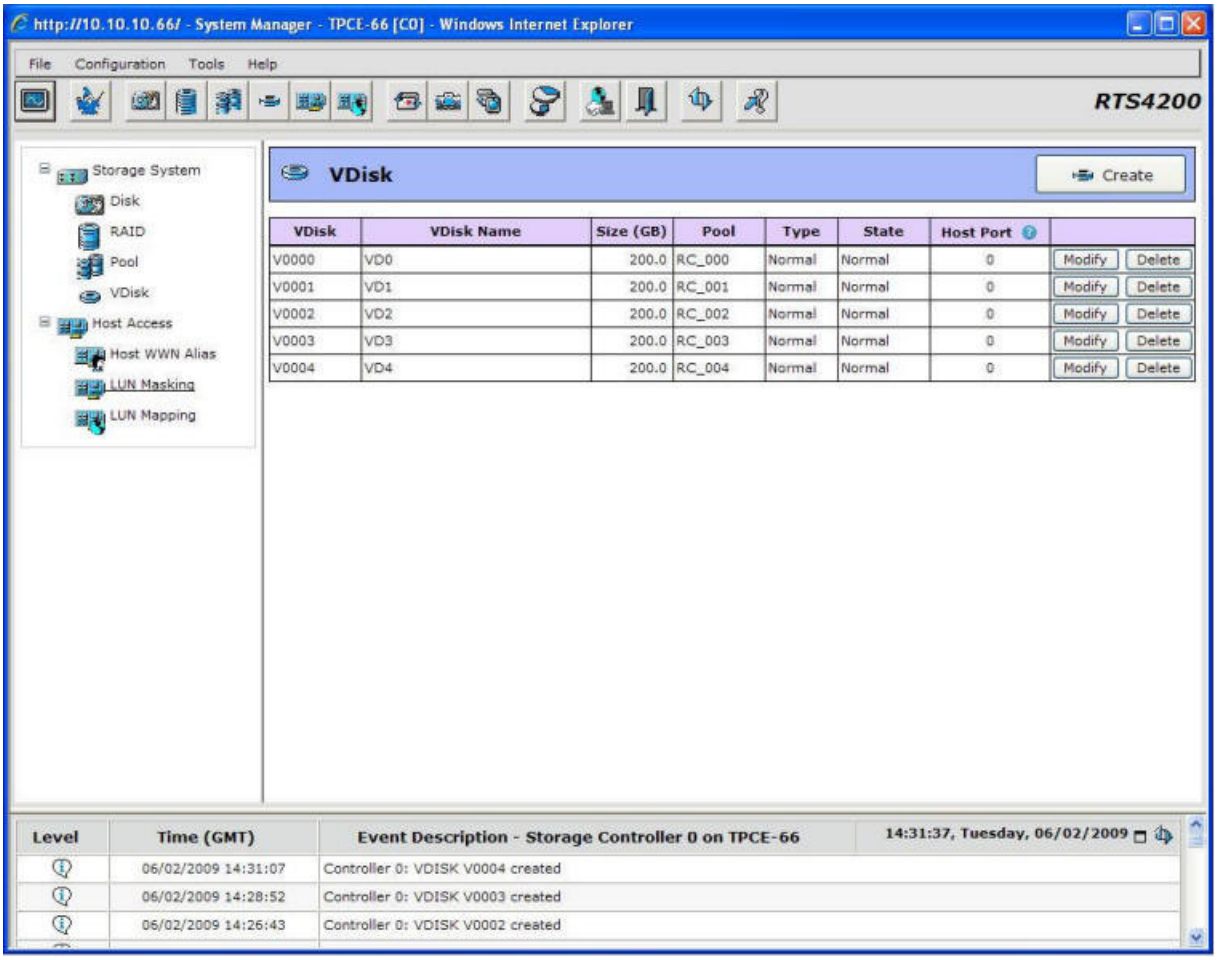
Select Pool RC_003. Enter the Available Capacity 200 into the VDisk Capacity box and enter a VDisk Name. Than click Create.



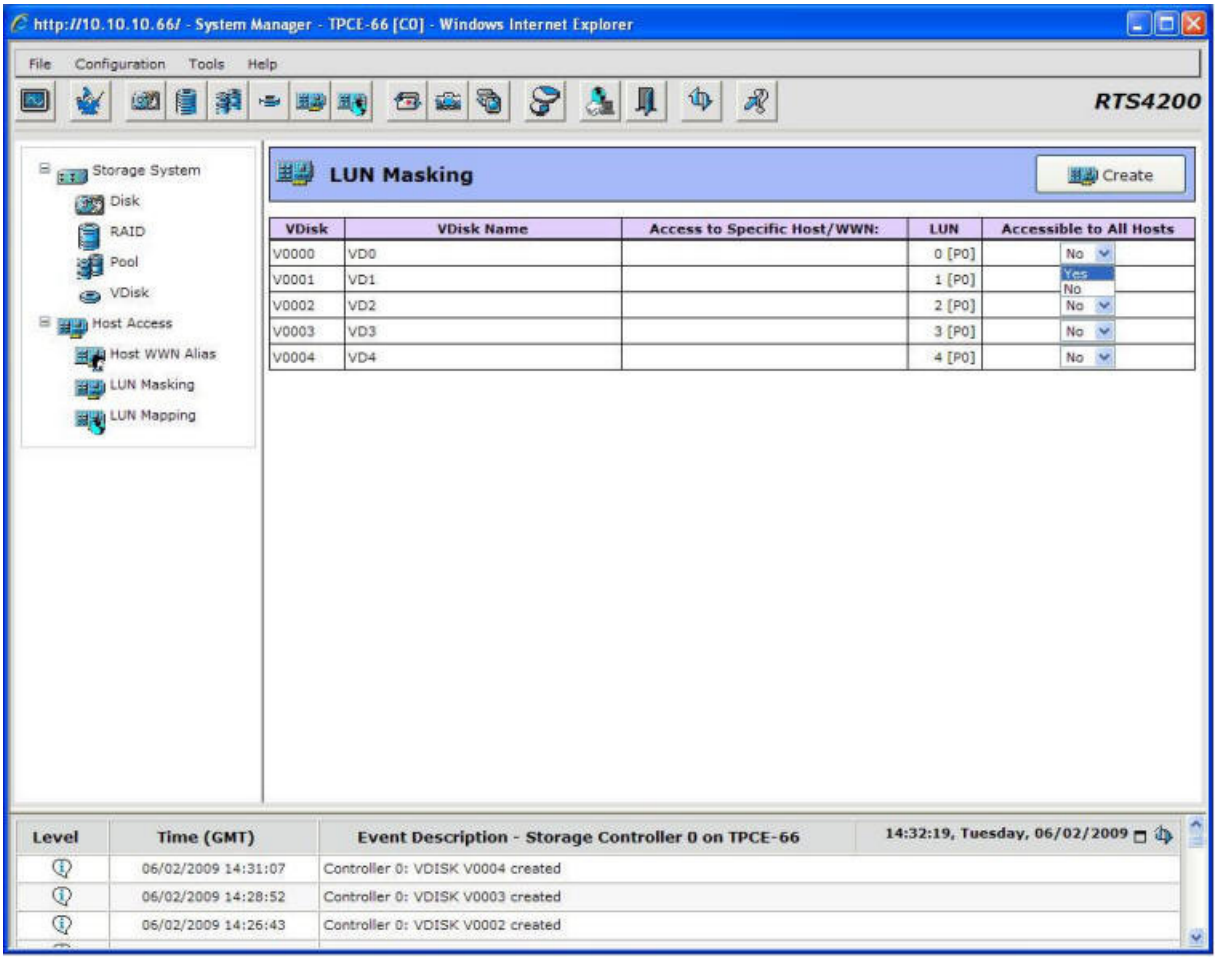
Click on Create to make the next VDisk.



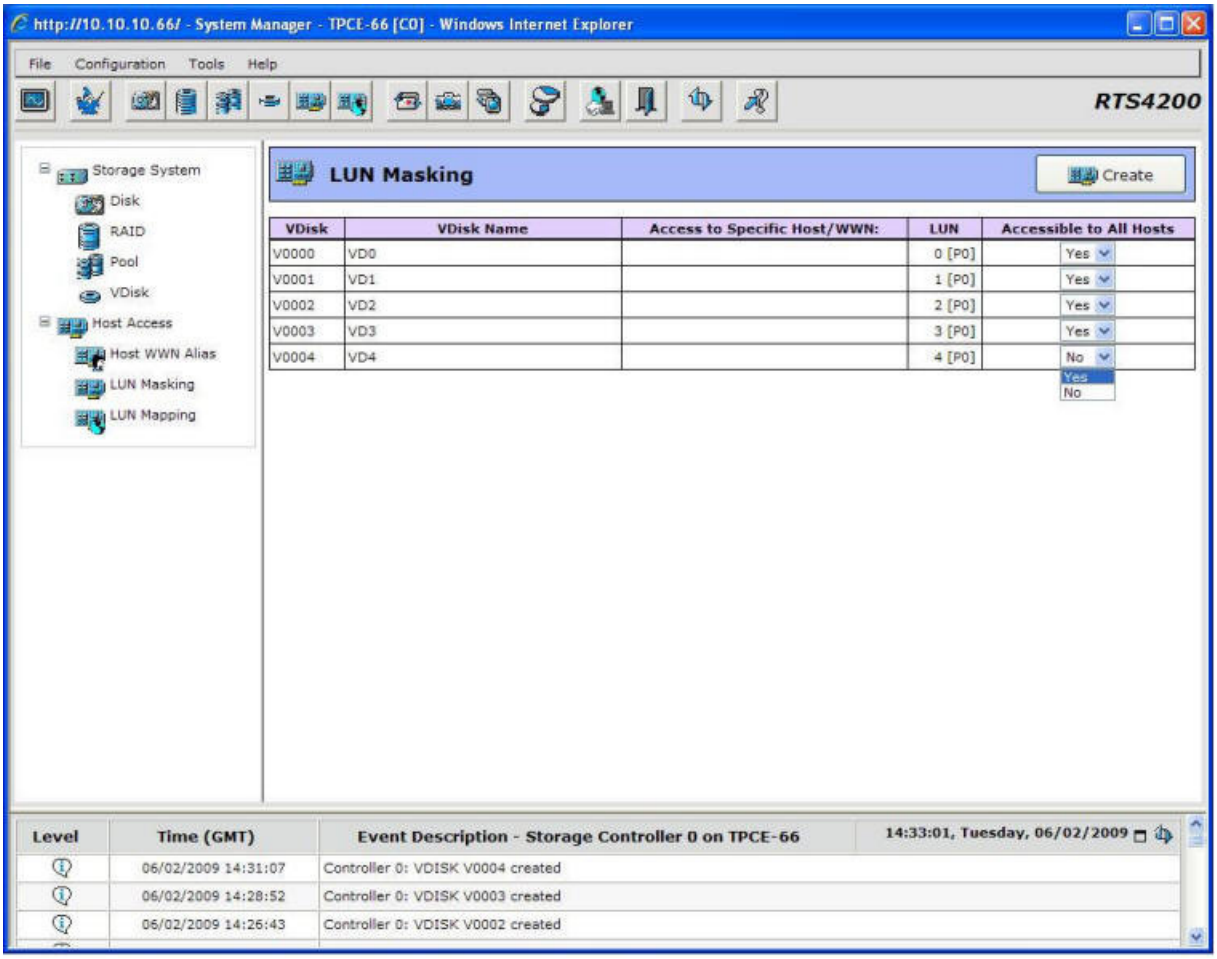
Select Pool RC_004. Enter the Available Capacity 200 into the VDisk Capacity box and enter a VDisk Name. Than click Create.



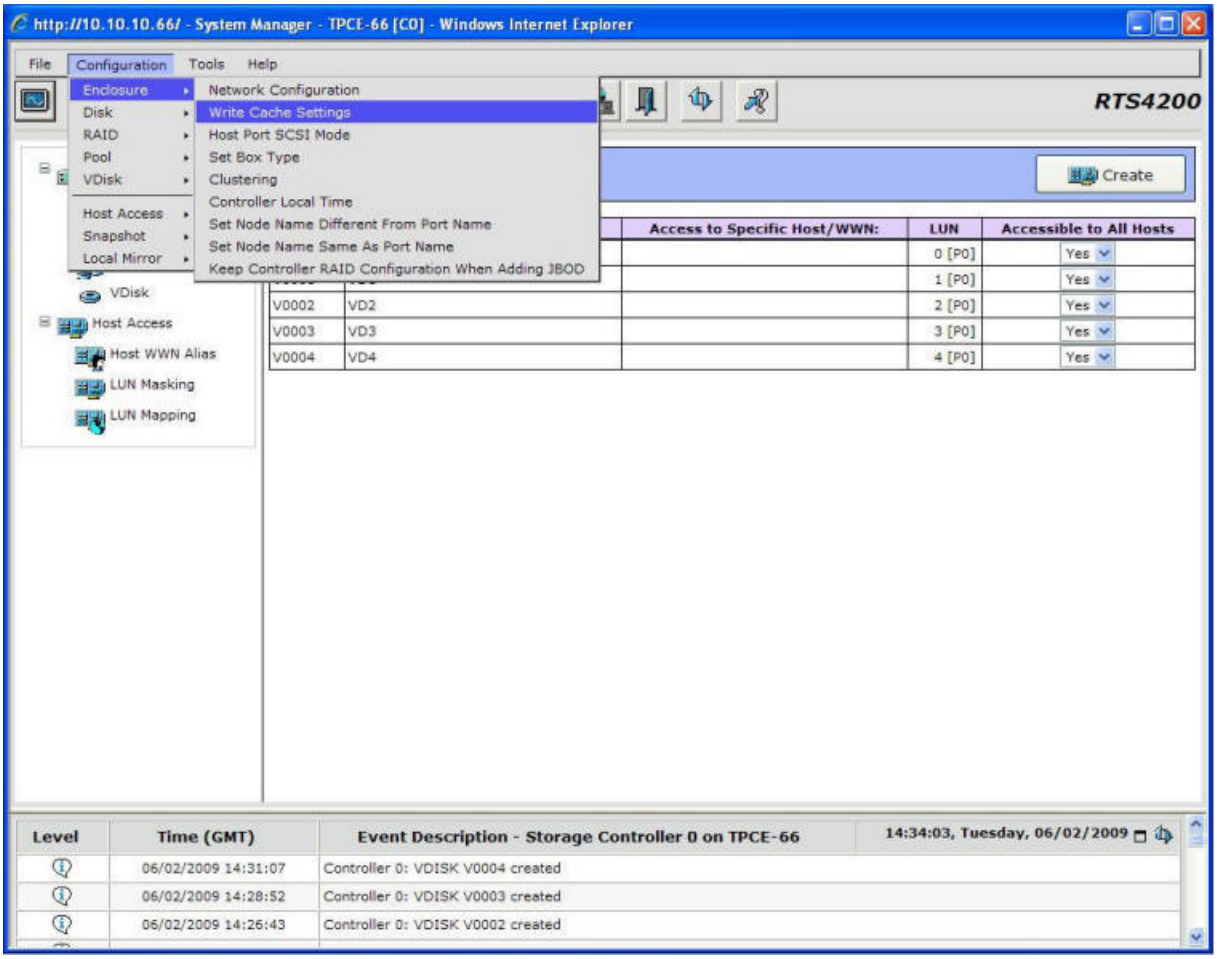
Click on Host Access and then on LUN Masking.



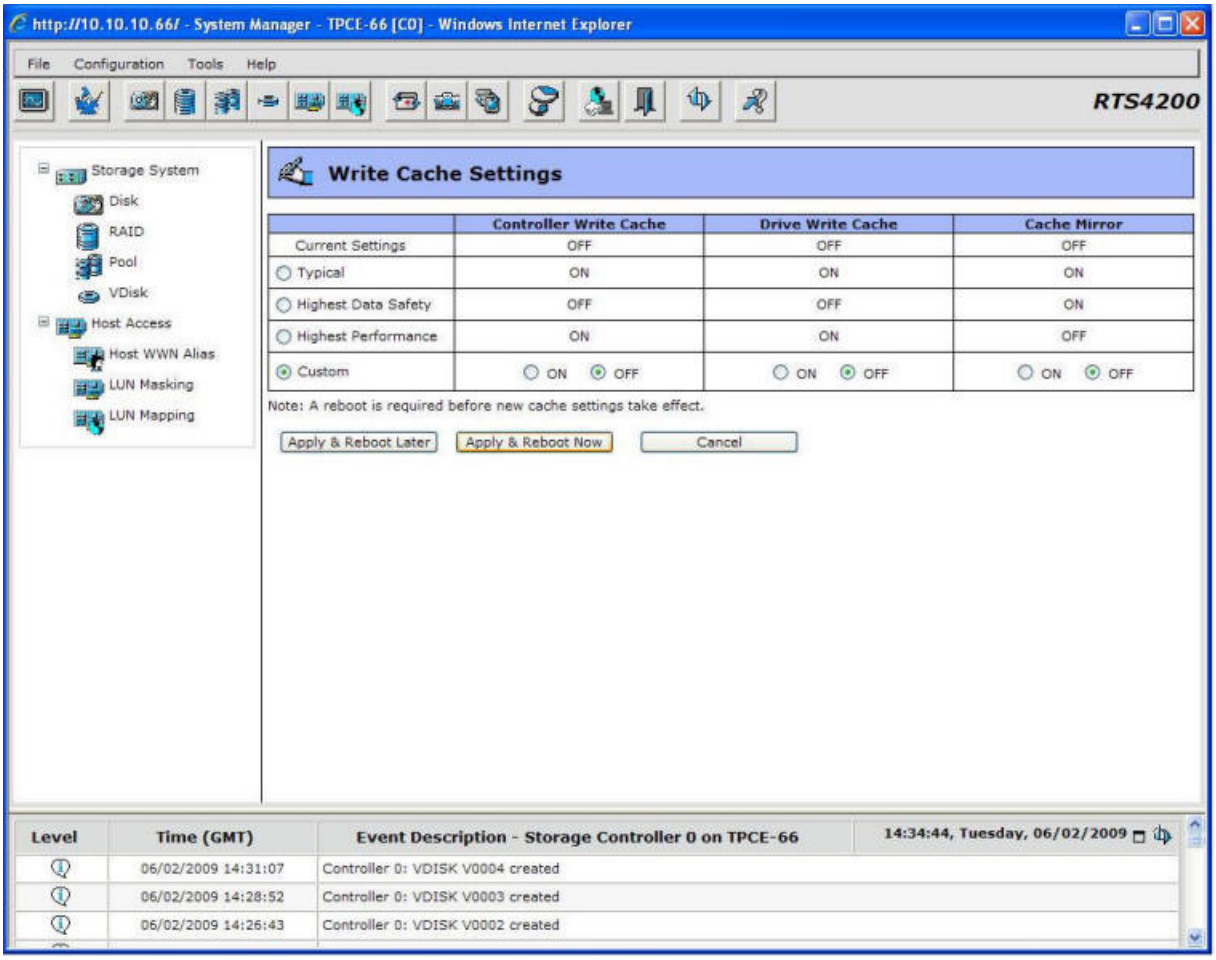
Click on the Accessible to All Host drop down box for V0000 and select yes. This makes the VDisk accessible to your host when you connect it.



Click on Yes in the drop down box for the rest of the VDisks. Now the VDisks will be accessible through host port 0.



Click on Write Cache Settings under Configuration then Enclosure.

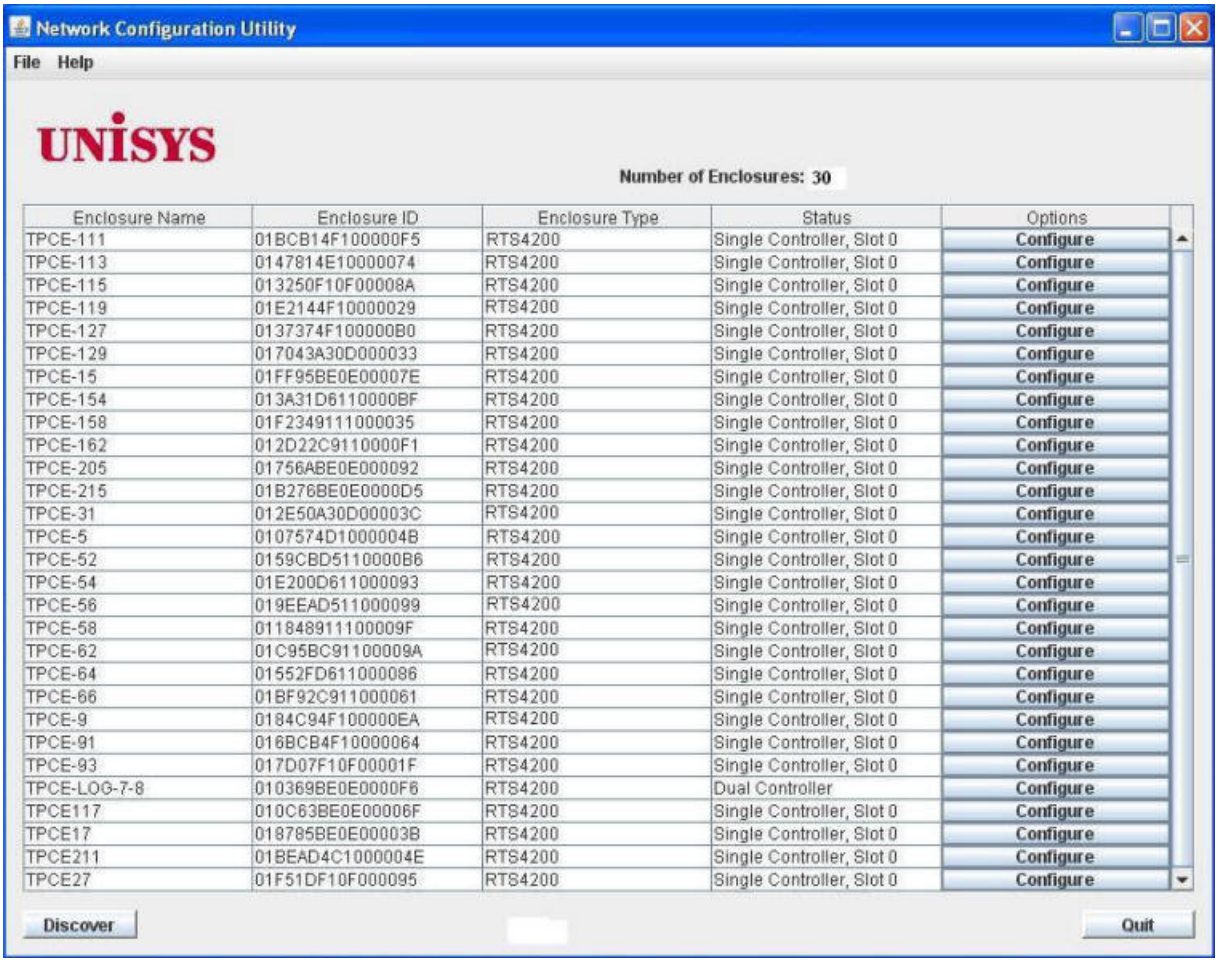


If the Current Settings are not all set to OFF, then click on Custom and then OFF for each of the three cache settings. Then click on Apply & Reboot Now.

The first database RAID subsystem is now configured. Repeat this process for the rest of the database RAID subsystems.

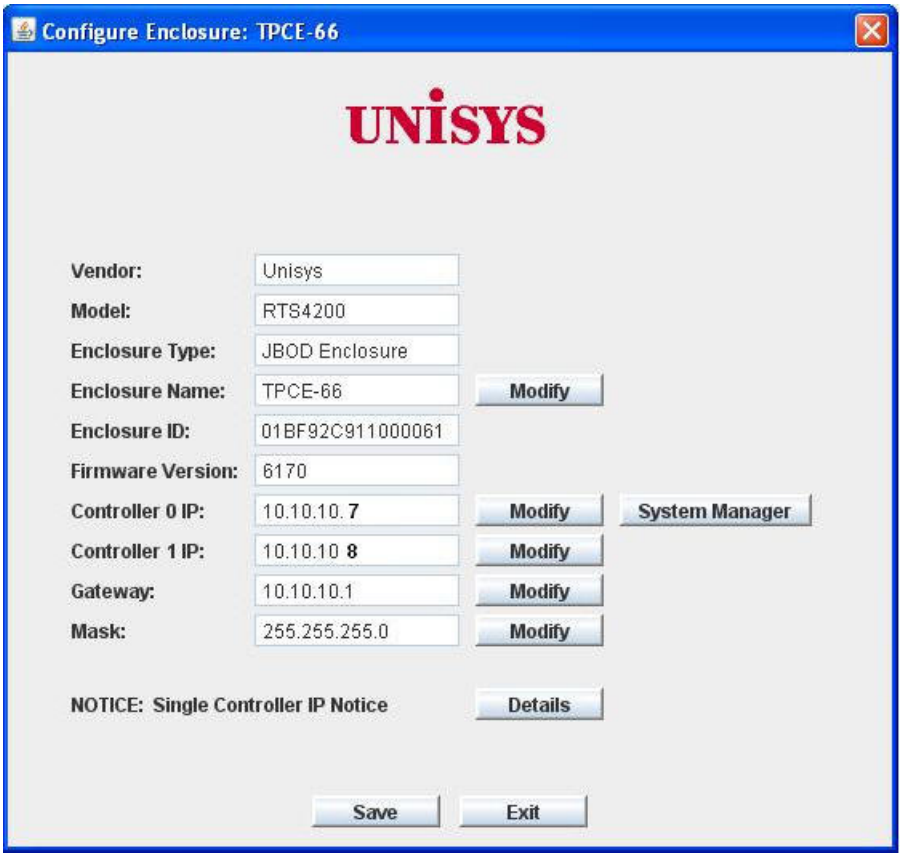
TPCE Log and TemDB Dual controller RAID subsystem configuration:

See the following:



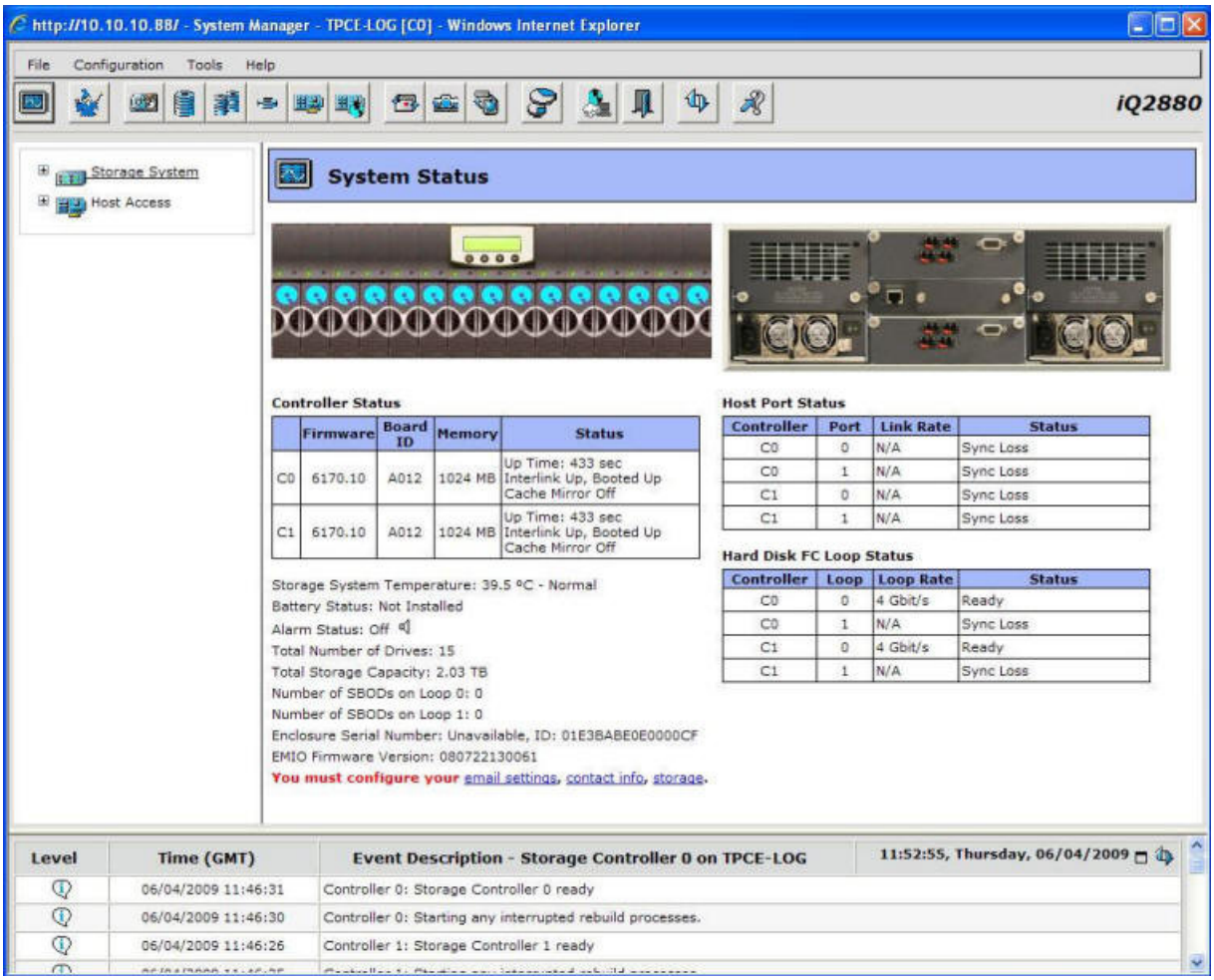
Enclosure Name	Enclosure ID	Enclosure Type	Status	Options
TPCE-111	01BCB14F100000F5	RTS4200	Single Controller, Slot 0	Configure
TPCE-113	0147814E10000074	RTS4200	Single Controller, Slot 0	Configure
TPCE-115	013250F10F00008A	RTS4200	Single Controller, Slot 0	Configure
TPCE-119	01E2144F10000029	RTS4200	Single Controller, Slot 0	Configure
TPCE-127	0137374F100000B0	RTS4200	Single Controller, Slot 0	Configure
TPCE-129	017043A30D000033	RTS4200	Single Controller, Slot 0	Configure
TPCE-15	01FF95BE0E00007E	RTS4200	Single Controller, Slot 0	Configure
TPCE-154	013A31D6110000BF	RTS4200	Single Controller, Slot 0	Configure
TPCE-158	01F2349111000035	RTS4200	Single Controller, Slot 0	Configure
TPCE-162	012D22C9110000F1	RTS4200	Single Controller, Slot 0	Configure
TPCE-205	01756ABE0E000092	RTS4200	Single Controller, Slot 0	Configure
TPCE-215	01B276BE0E0000D5	RTS4200	Single Controller, Slot 0	Configure
TPCE-31	012E50A30D00003C	RTS4200	Single Controller, Slot 0	Configure
TPCE-5	0107574D1000004B	RTS4200	Single Controller, Slot 0	Configure
TPCE-52	0159CBD5110000B6	RTS4200	Single Controller, Slot 0	Configure
TPCE-54	01E200D611000093	RTS4200	Single Controller, Slot 0	Configure
TPCE-56	019EEAD511000099	RTS4200	Single Controller, Slot 0	Configure
TPCE-58	011848911100009F	RTS4200	Single Controller, Slot 0	Configure
TPCE-62	01C95BC91100009A	RTS4200	Single Controller, Slot 0	Configure
TPCE-64	01552FD611000086	RTS4200	Single Controller, Slot 0	Configure
TPCE-66	01BF92C911000061	RTS4200	Single Controller, Slot 0	Configure
TPCE-9	0184C94F100000EA	RTS4200	Single Controller, Slot 0	Configure
TPCE-91	016BCB4F10000064	RTS4200	Single Controller, Slot 0	Configure
TPCE-93	017D07F10F00001F	RTS4200	Single Controller, Slot 0	Configure
TPCE-LOG-7-8	010369BE0E0000F6	RTS4200	Dual Controller	Configure
TPCE117	010C63BE0E00006F	RTS4200	Single Controller, Slot 0	Configure
TPCE17	018785BE0E00003B	RTS4200	Single Controller, Slot 0	Configure
TPCE211	01BEAD4C1000004E	RTS4200	Single Controller, Slot 0	Configure
TPCE27	01F51DF10F000095	RTS4200	Single Controller, Slot 0	Configure

Click on Configure for Enclosure TPCE-LOG-7-8.

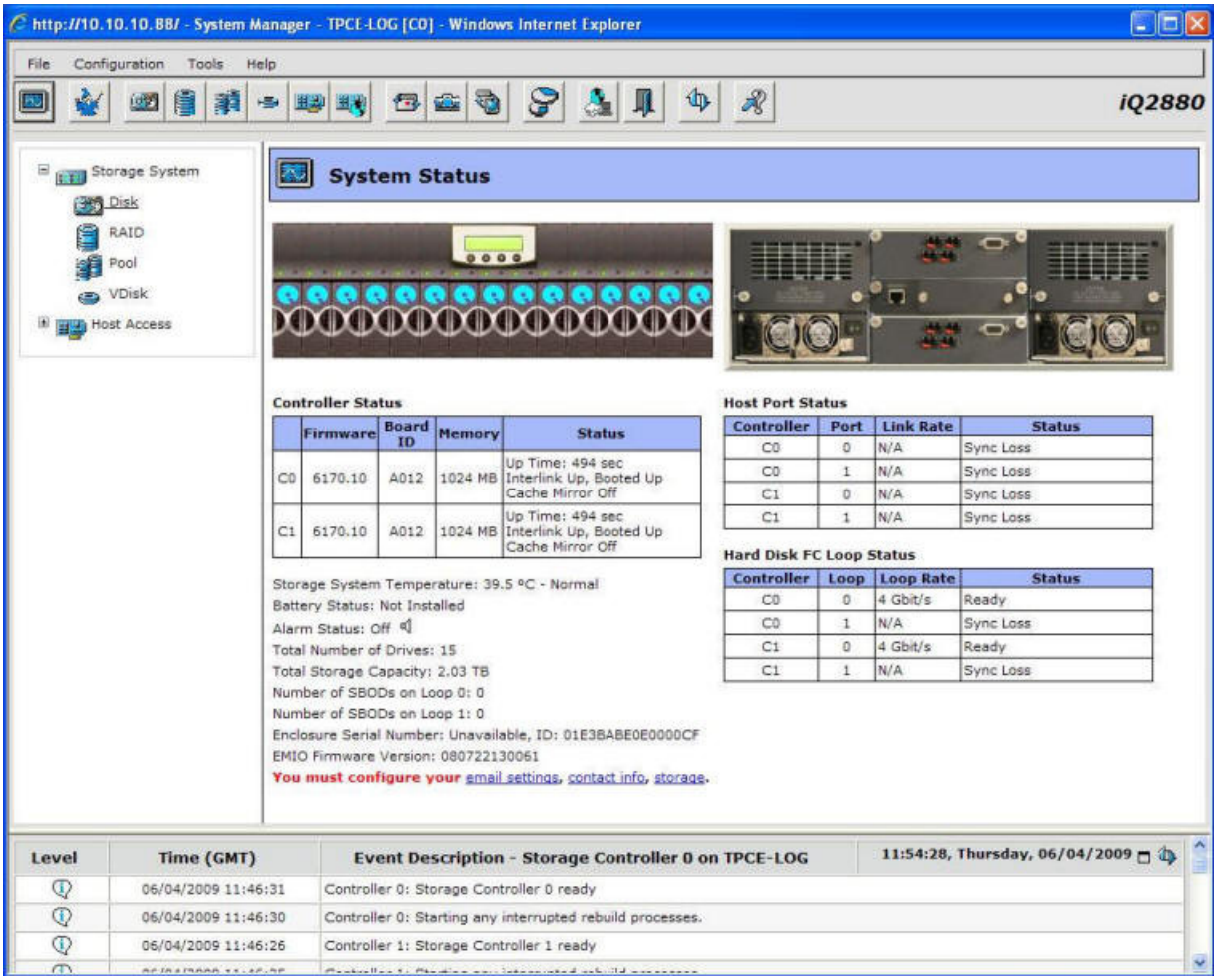


Click on System Manager box to bring up the log on screen.

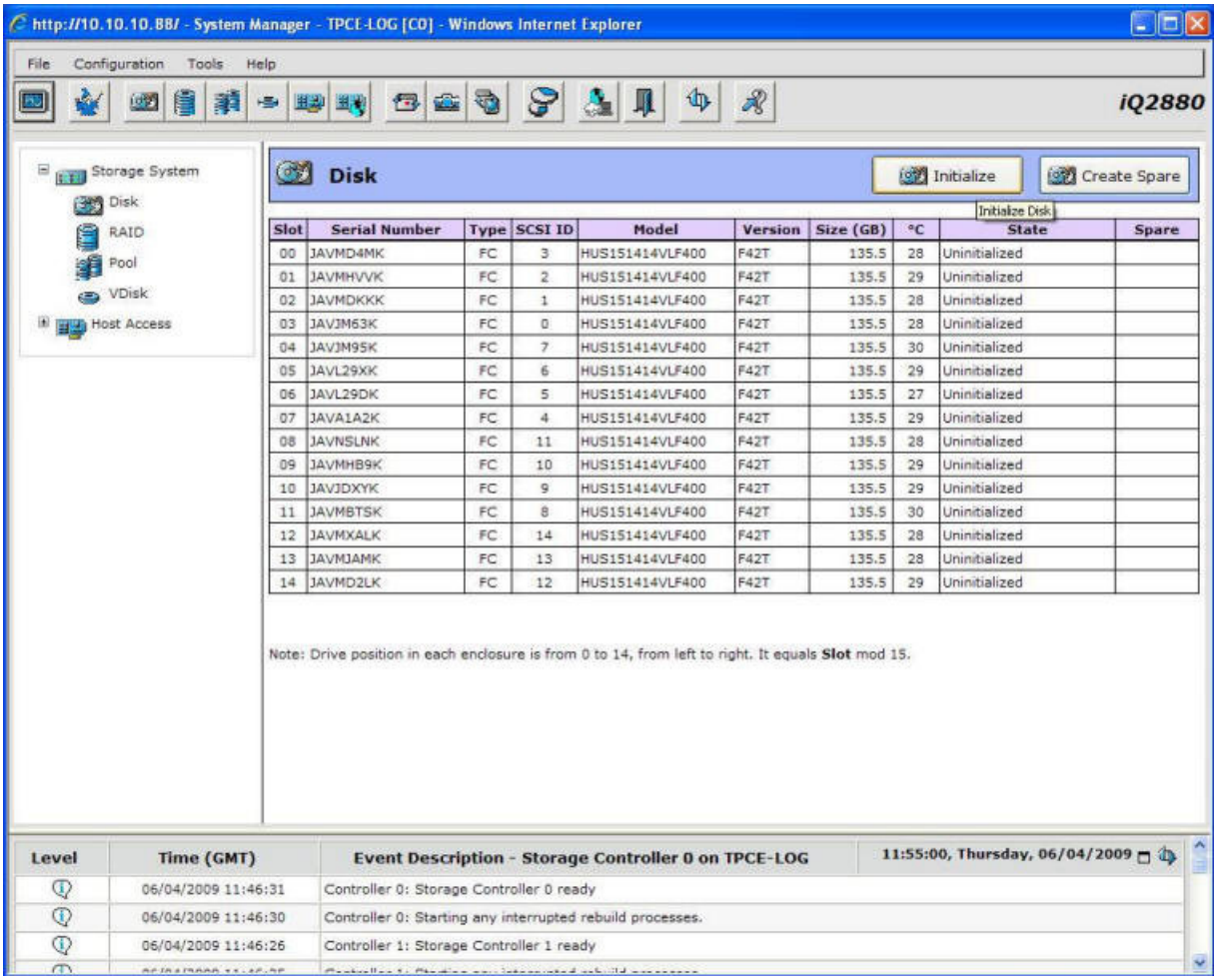
Enter Username and Password. Then click Submit.



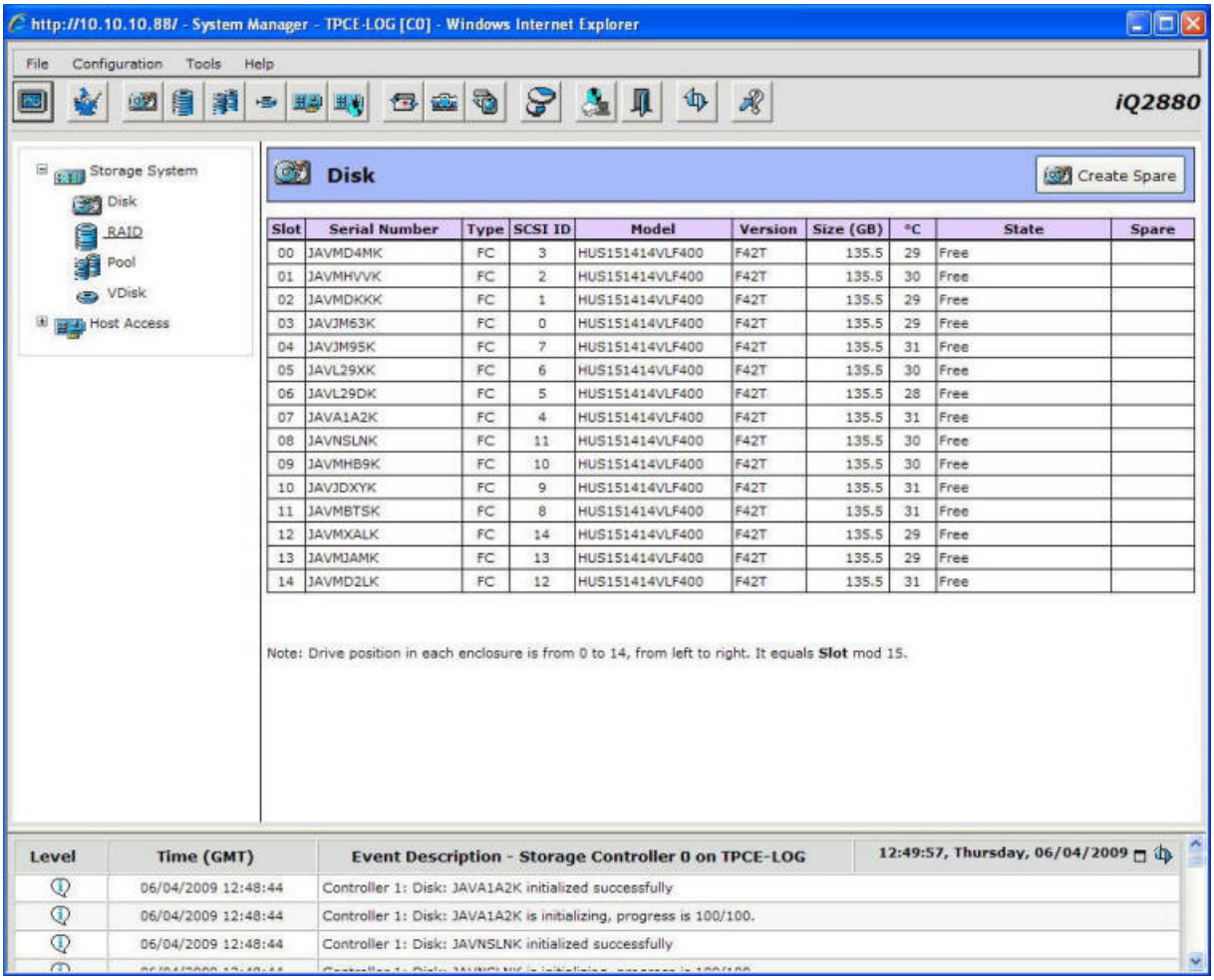
Click on Storage Subsystem.



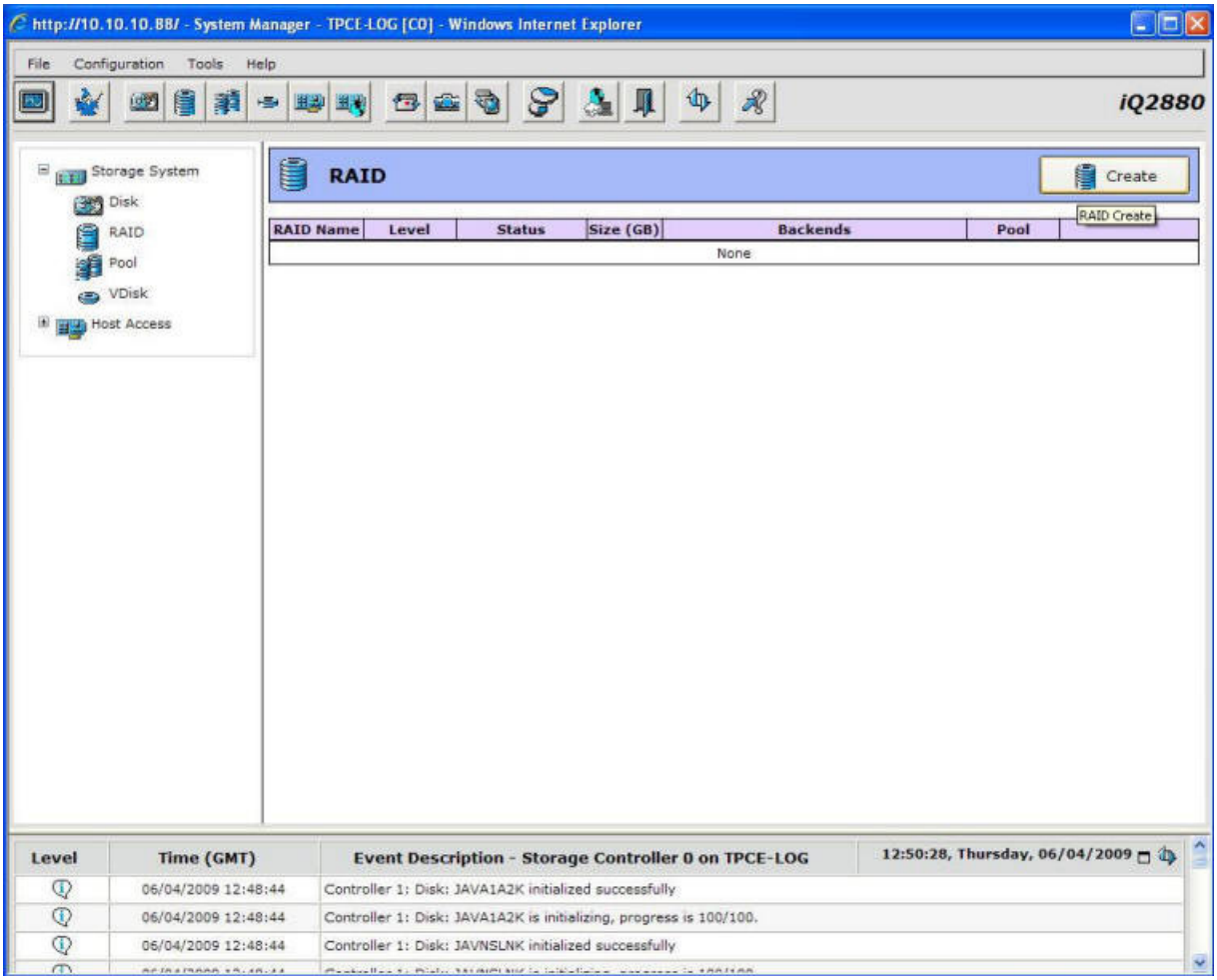
Click on Disk.



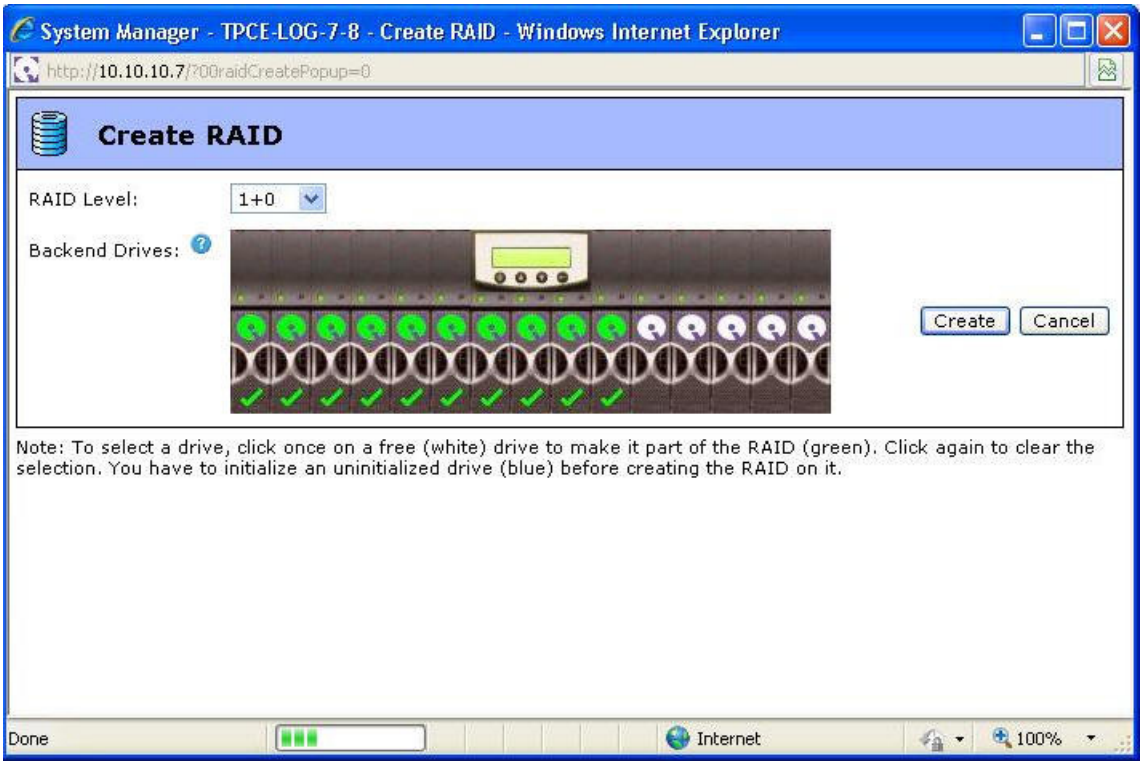
Click on Initialize to initialize the disks.



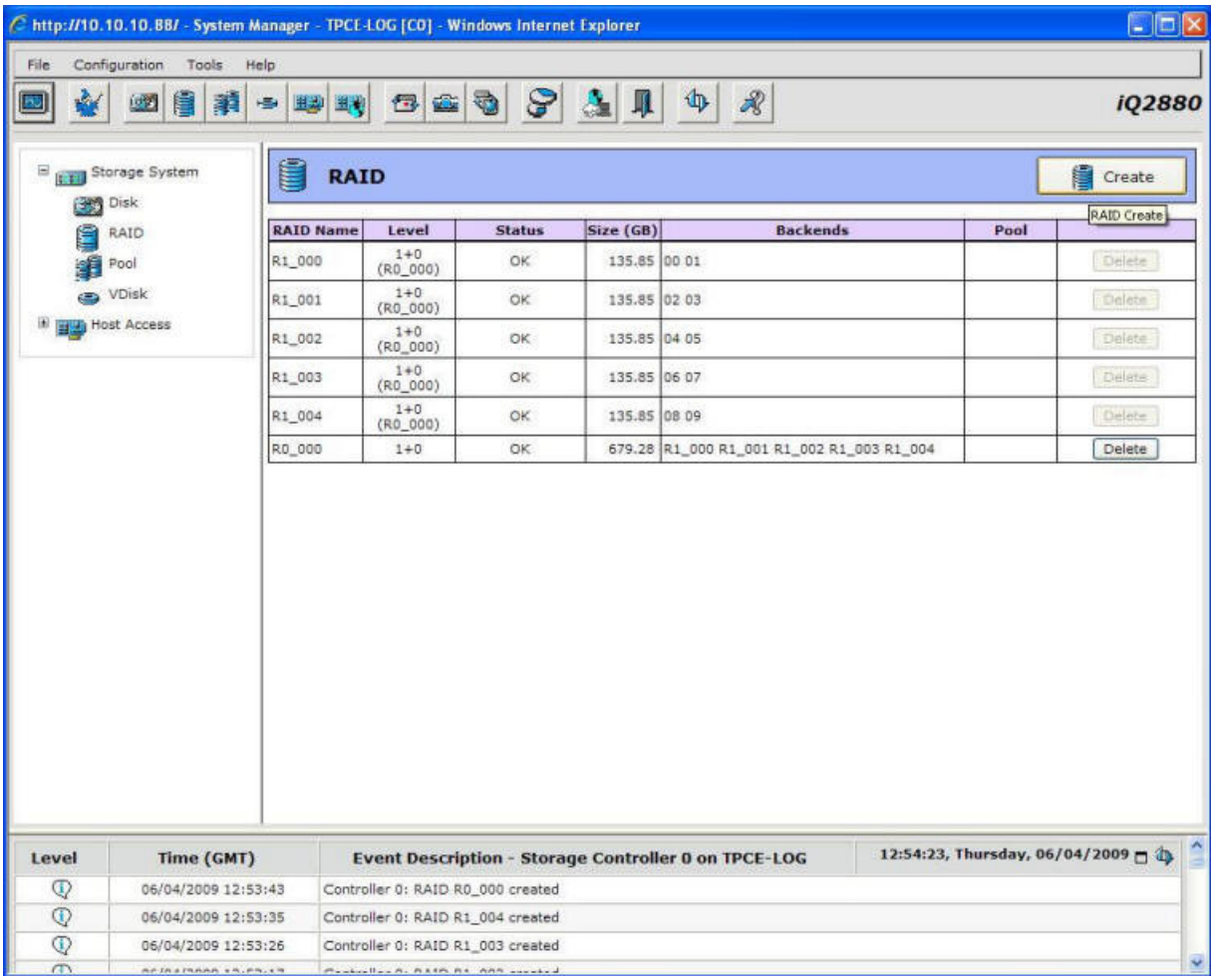
When the disks are in the State of Free click on RAID.



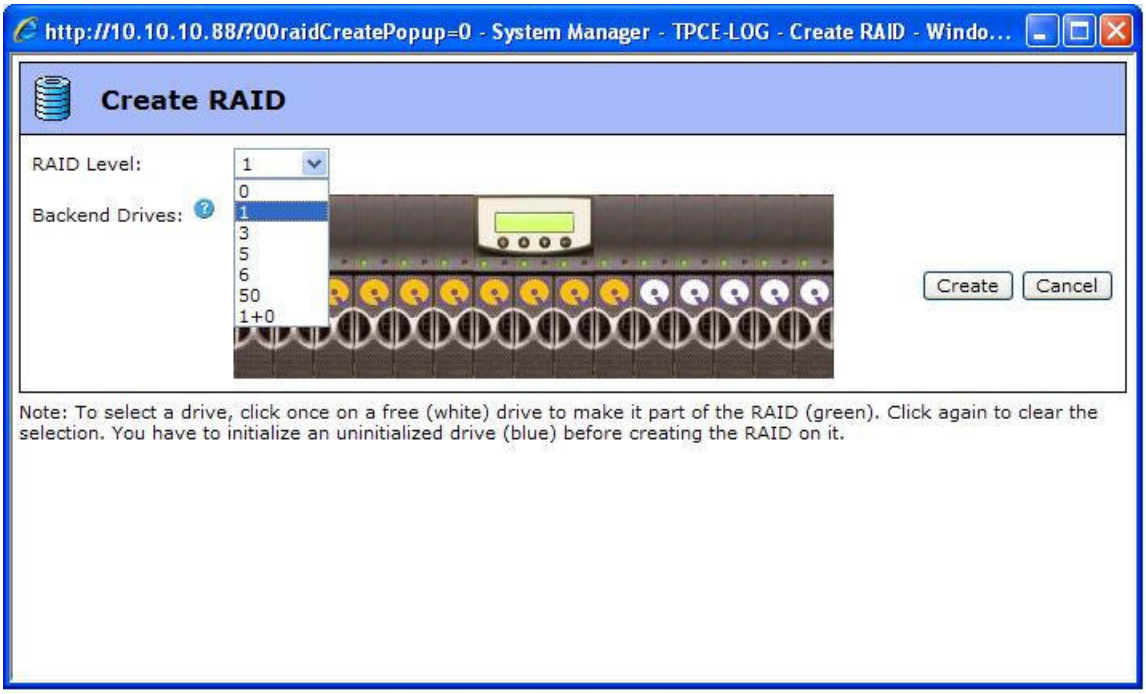
Click on Create.



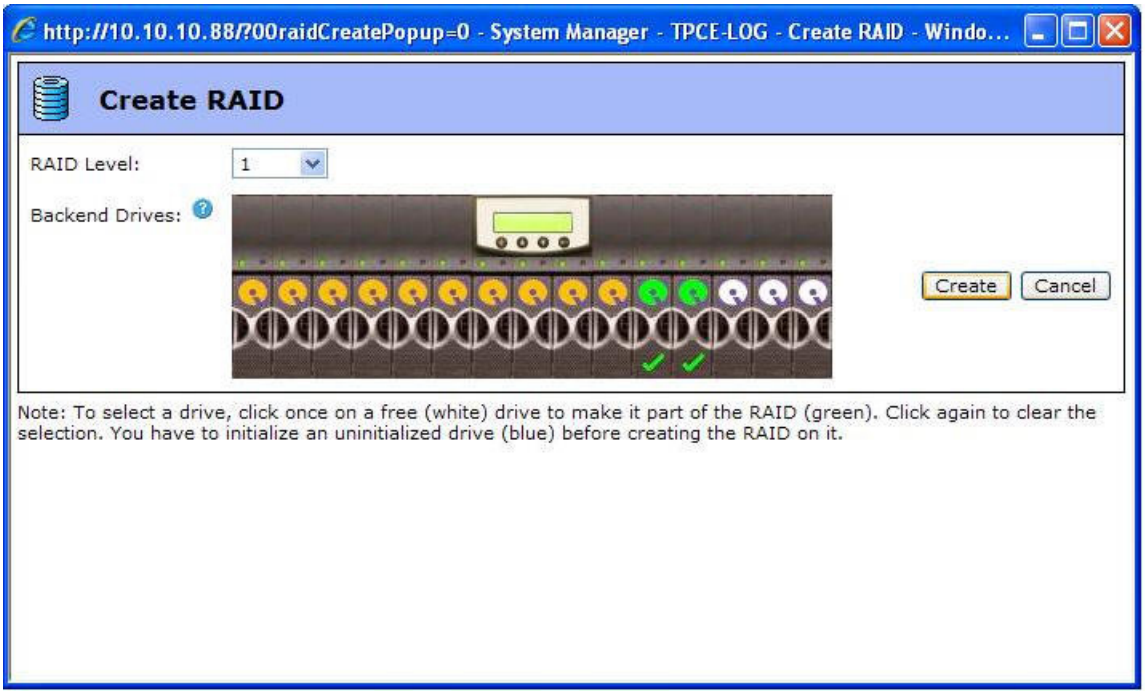
Select RAID Level 1+0. Then click on the first 10 disks to select them. Then click on Create.



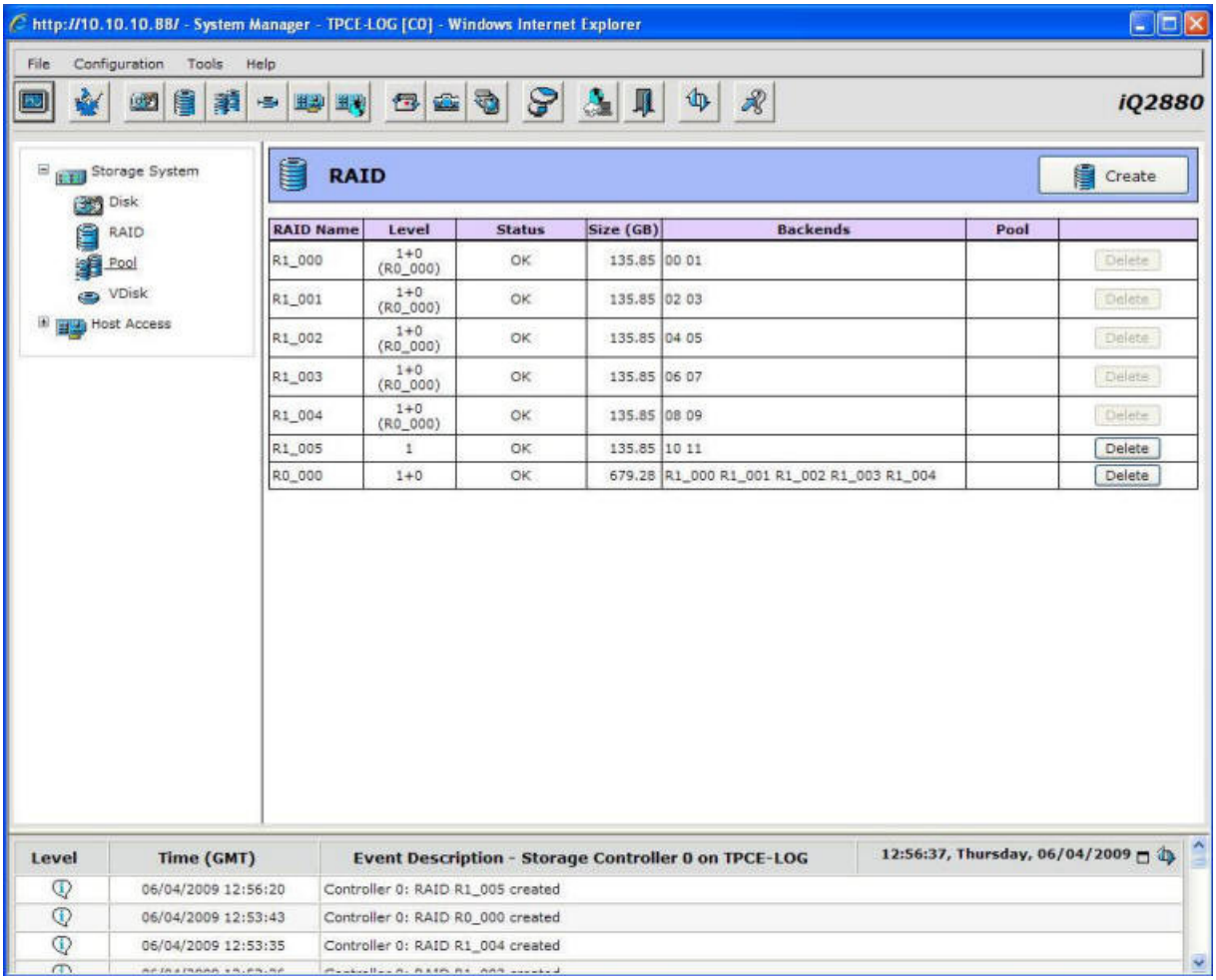
Click on Create.



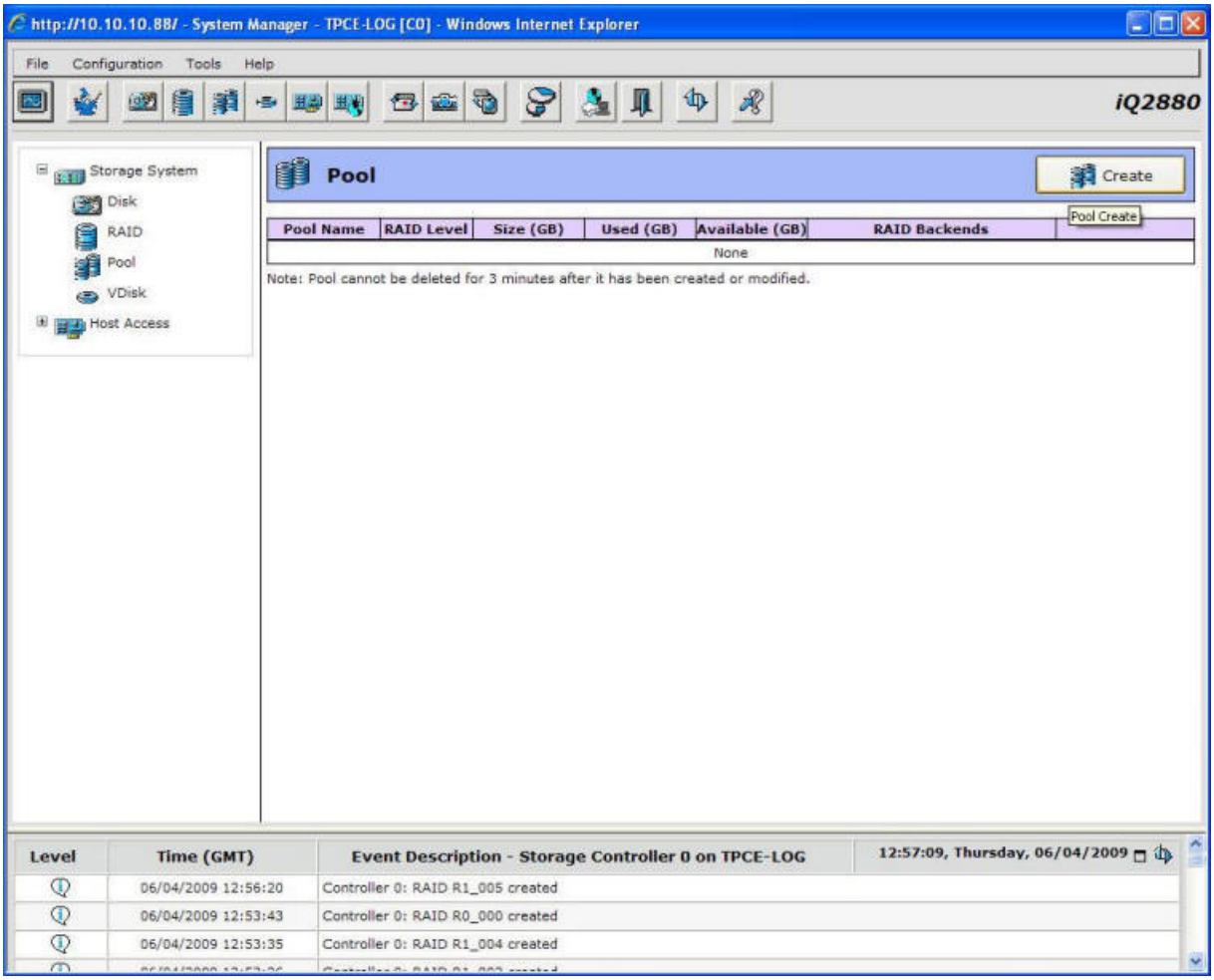
Select RAID Level 1from the RAID Level drop down box.



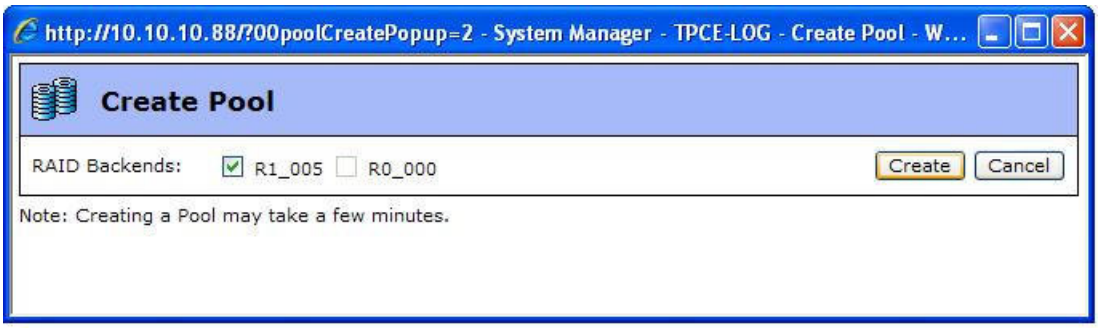
Select the next two drives and click on Create.



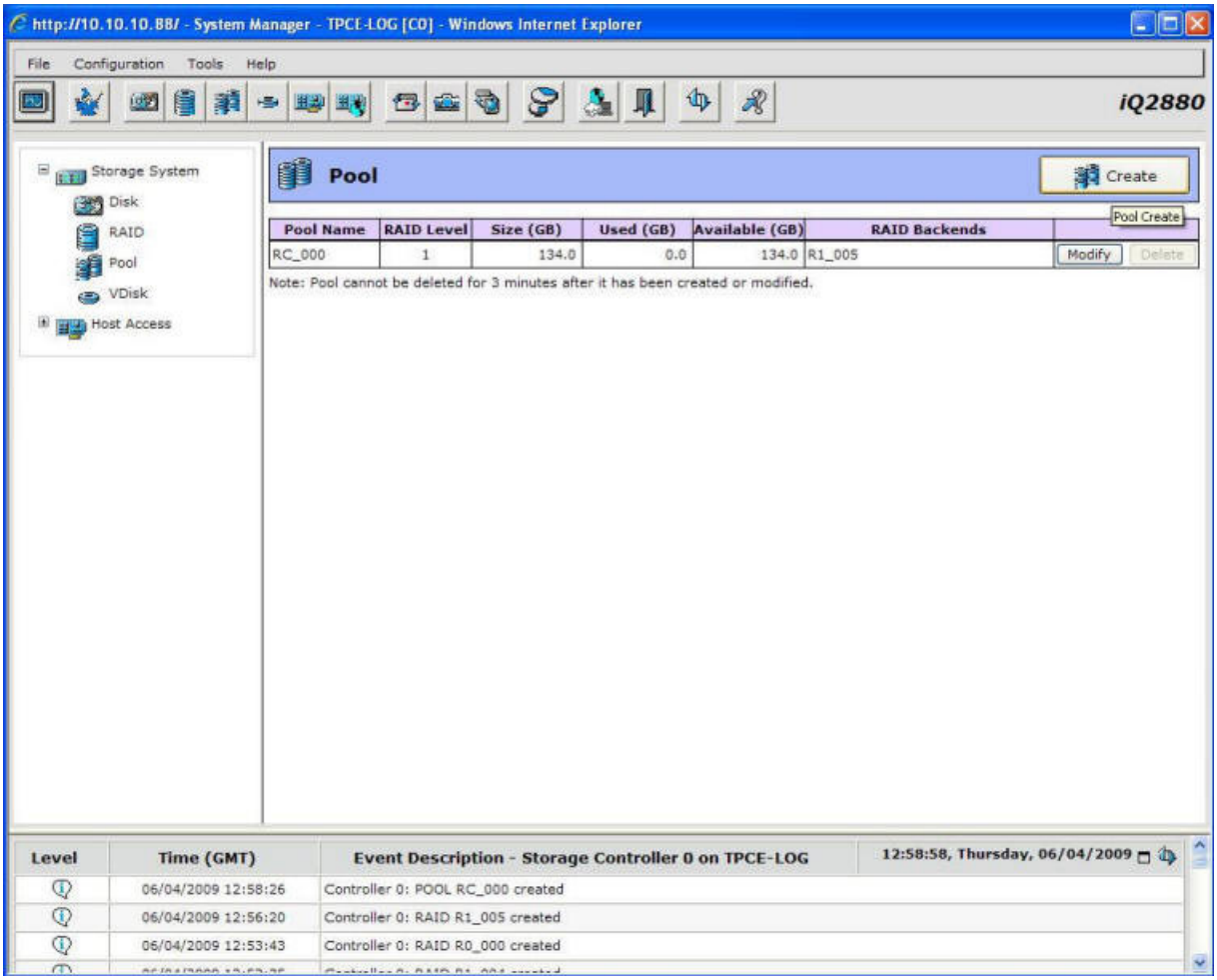
Click on Pool.



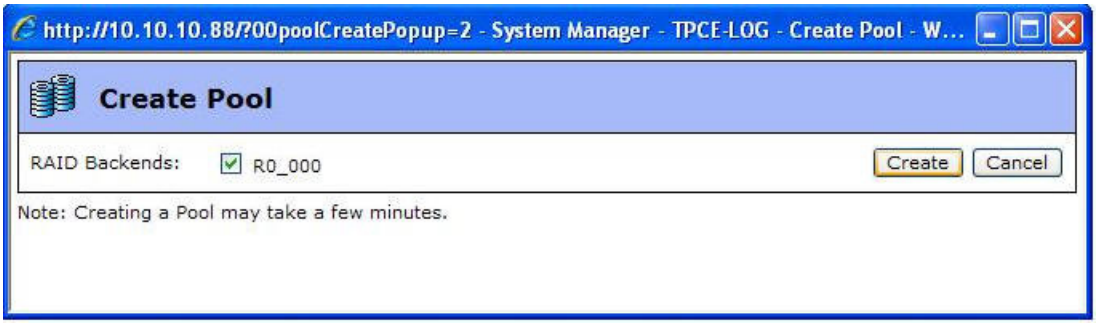
Click on Create.



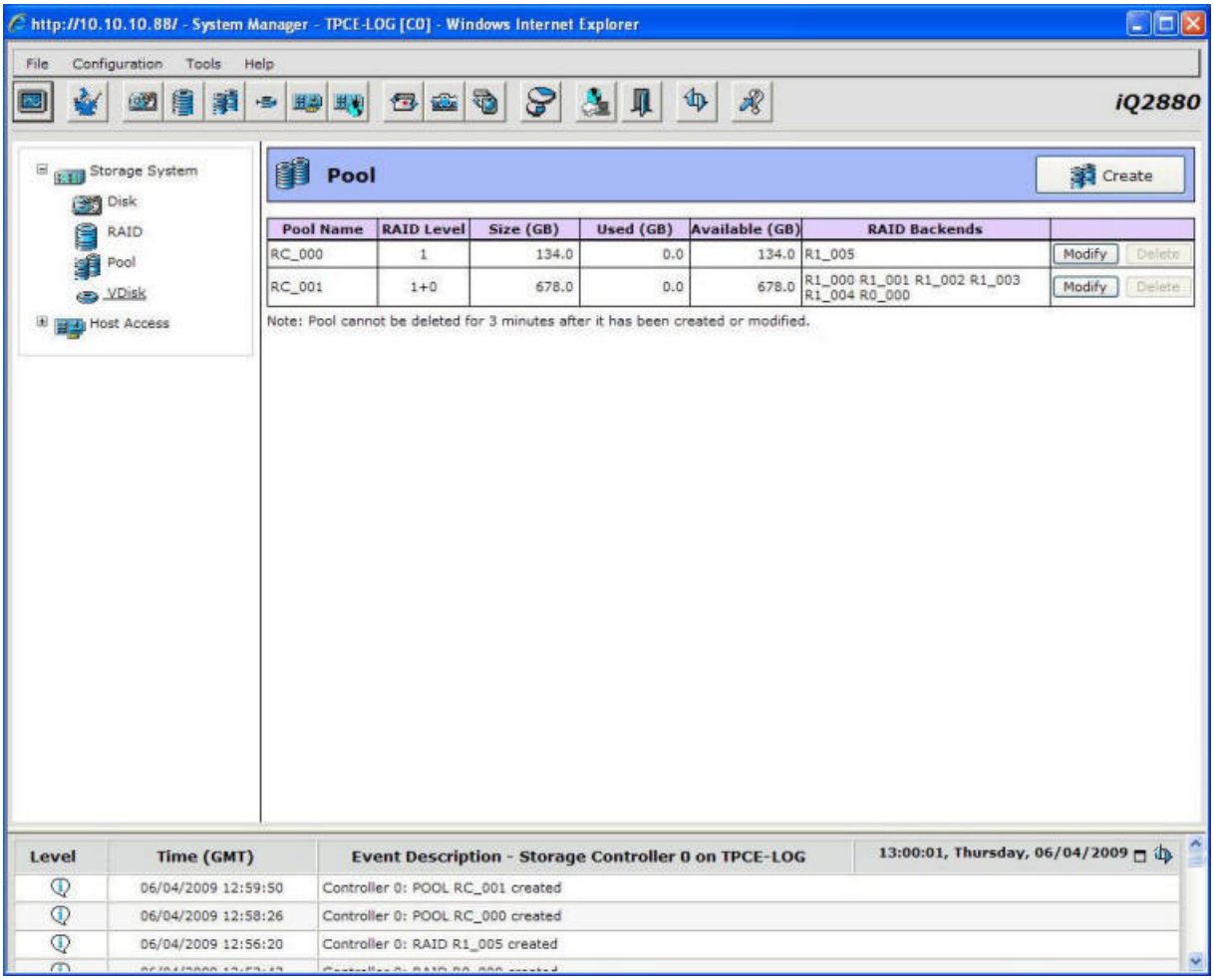
Click on The box by R1_005 and click Create.



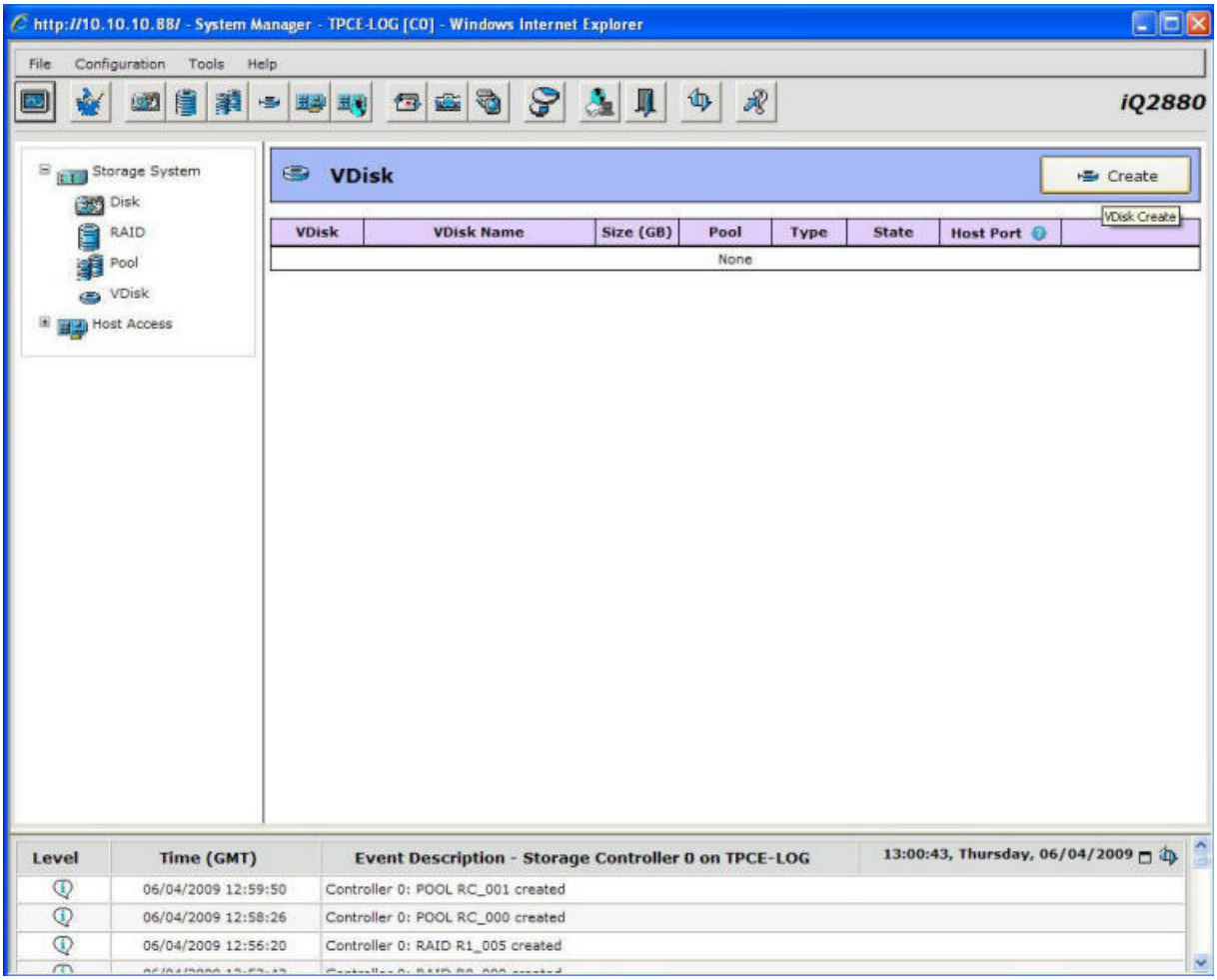
Click on create.



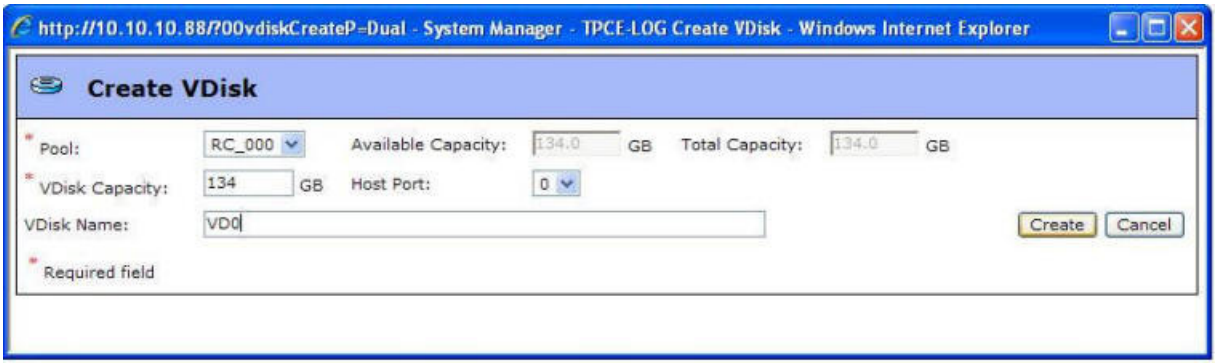
Select R0_000 and click create.



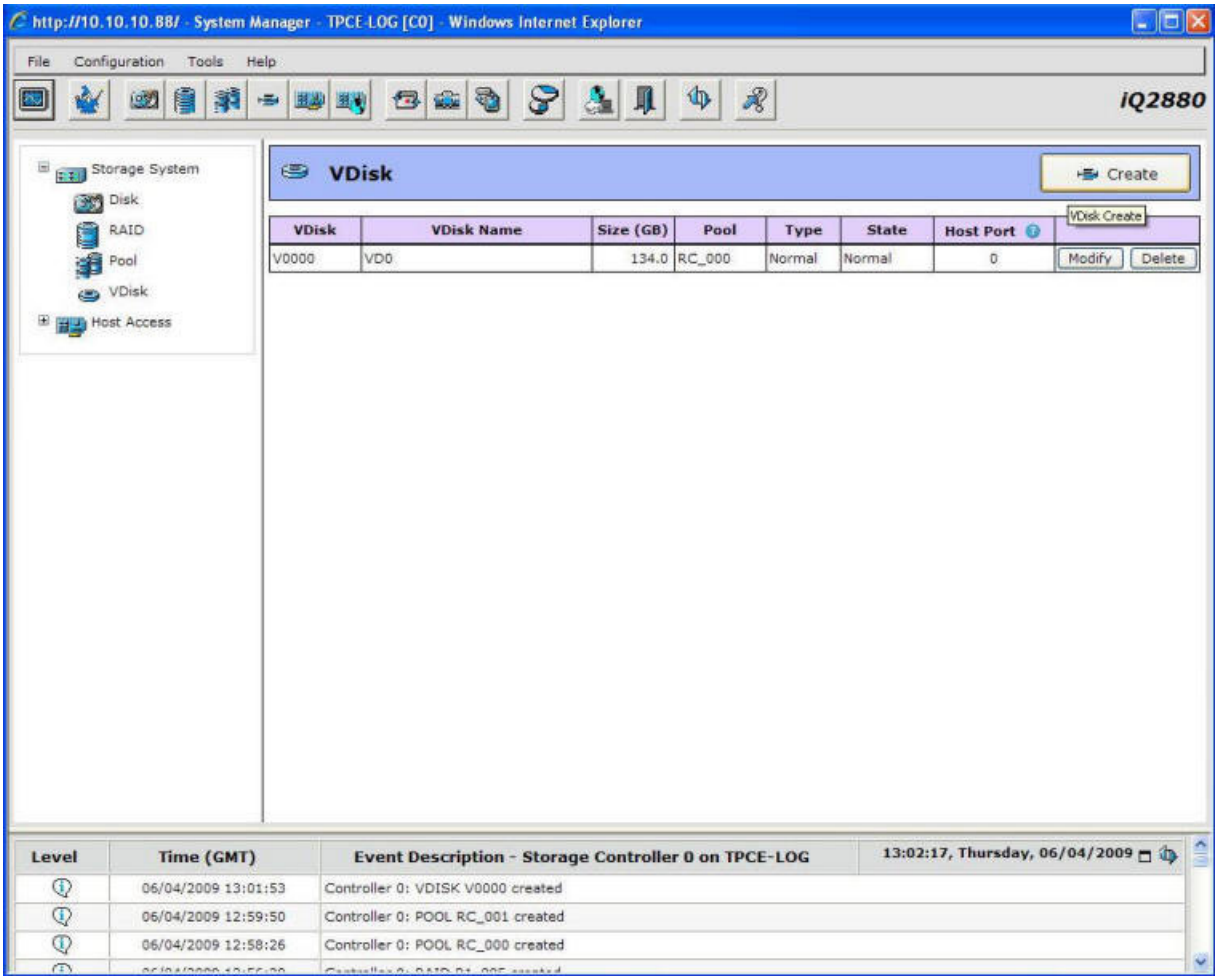
Click on VDisk



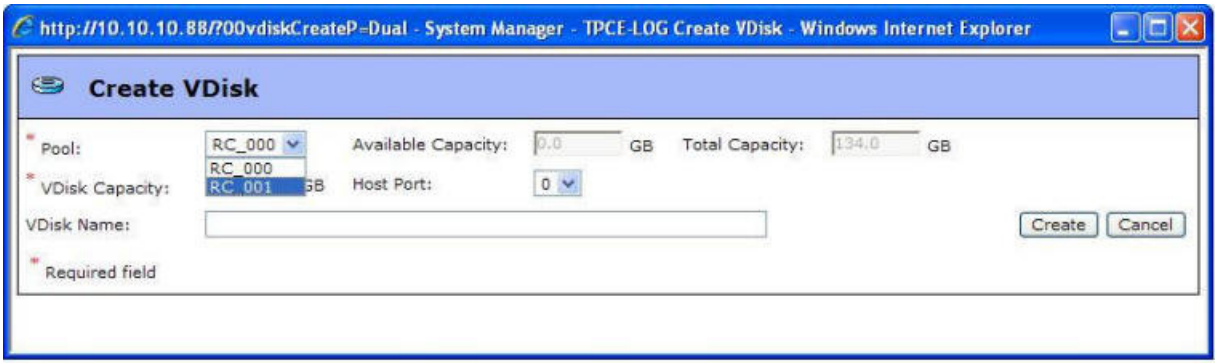
Click on Create.



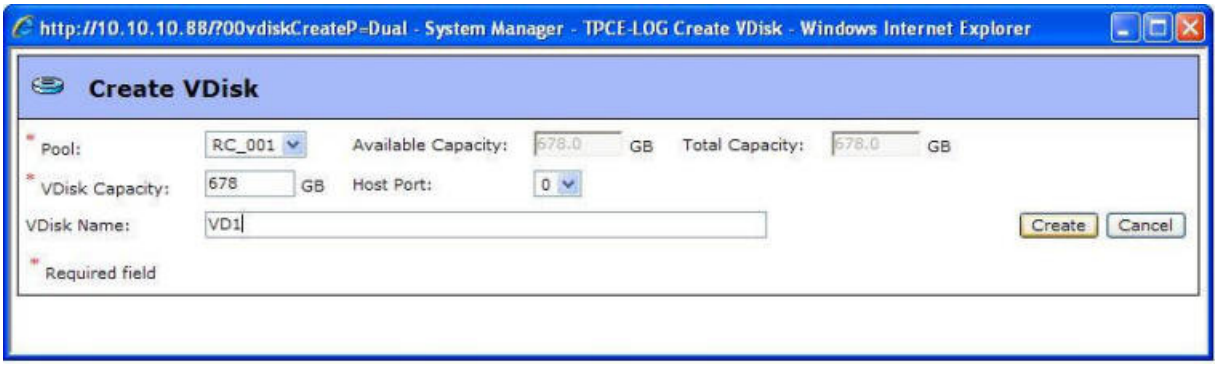
Enter the Available Capacity of 134 in the VDisk box and enter a VDisk Name, Then click Create.



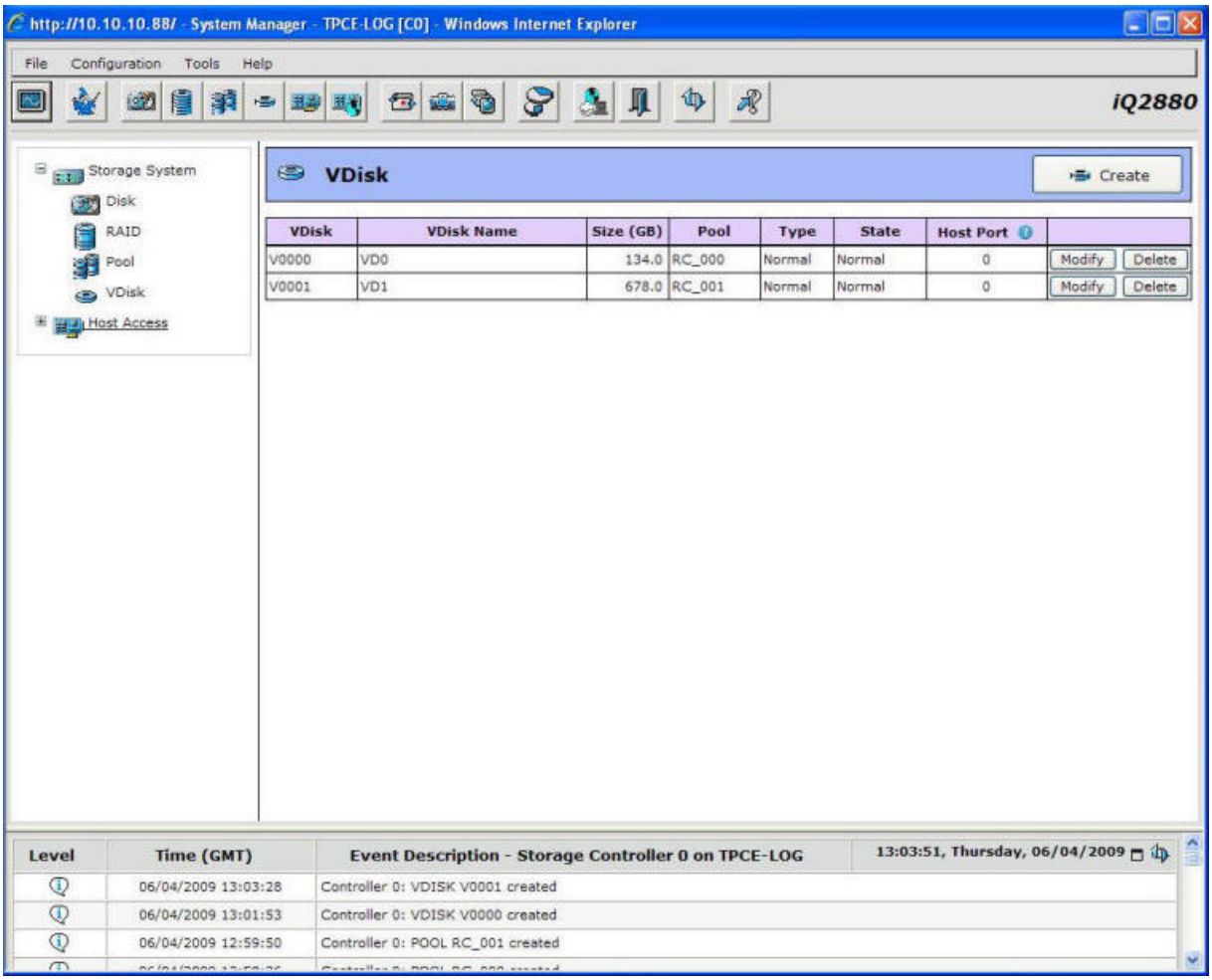
Click on create.



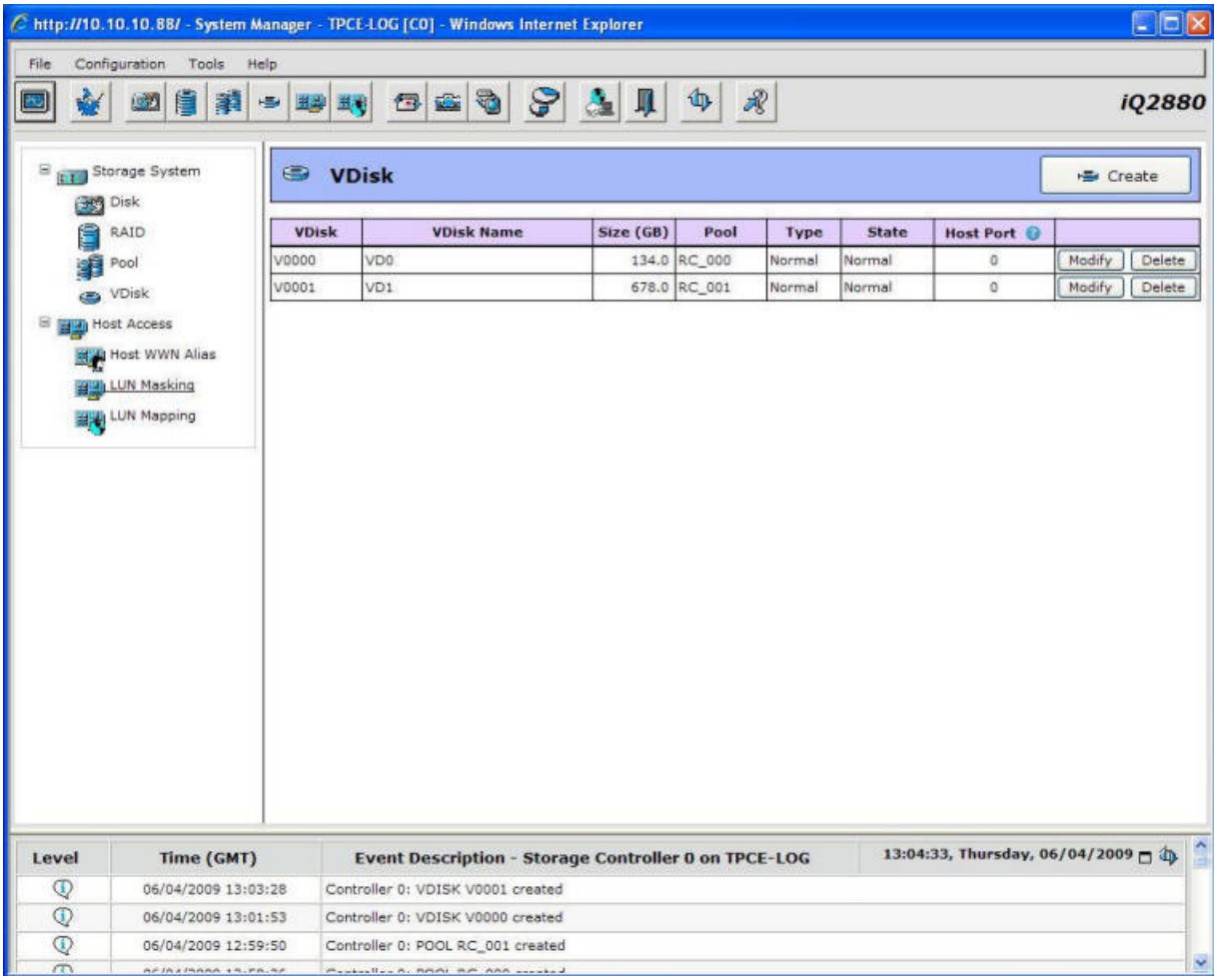
Select Pool RC_001.



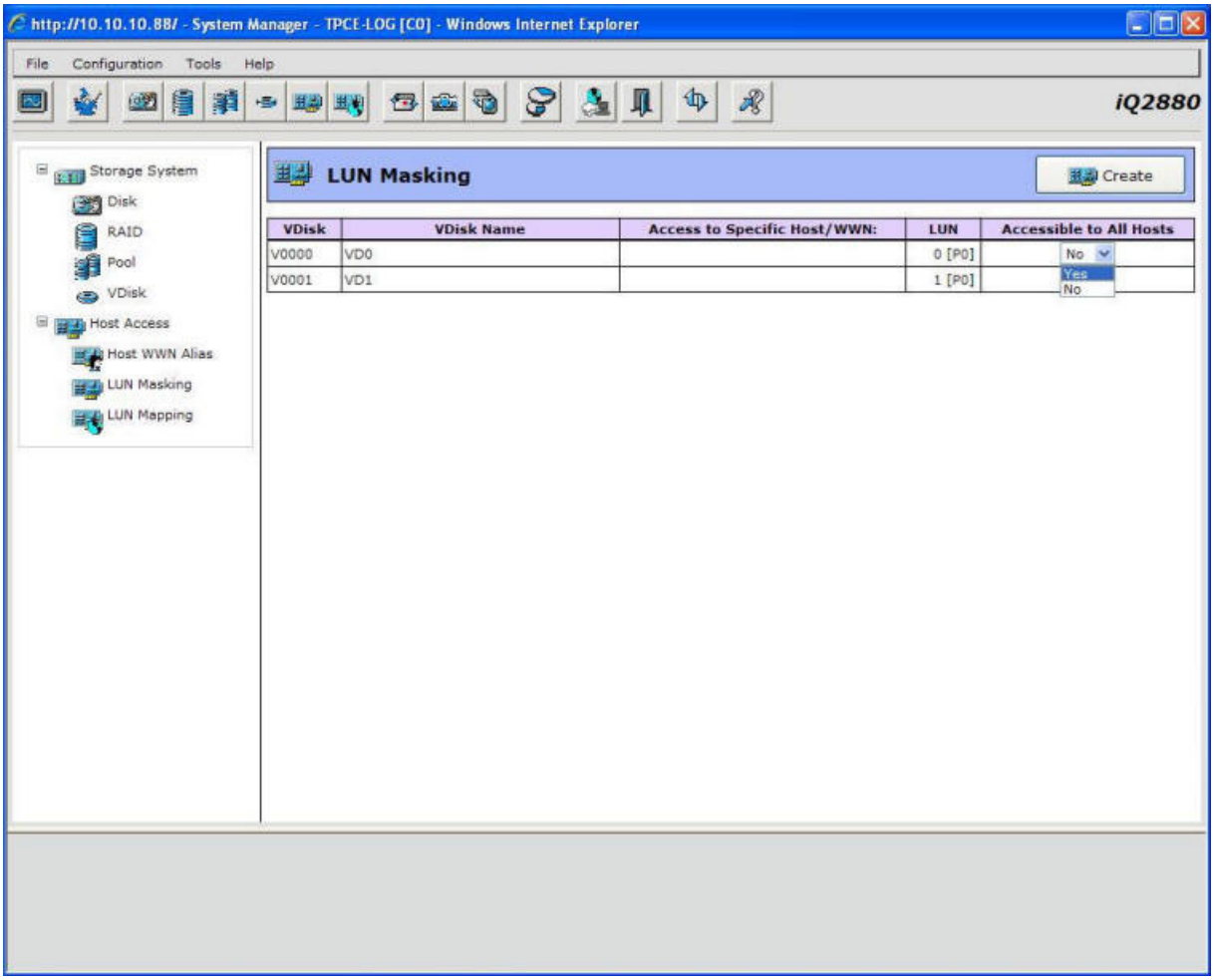
Enter the Available Capacity of 678 in the VDisk box and enter a VDisk Name, Then click Create.



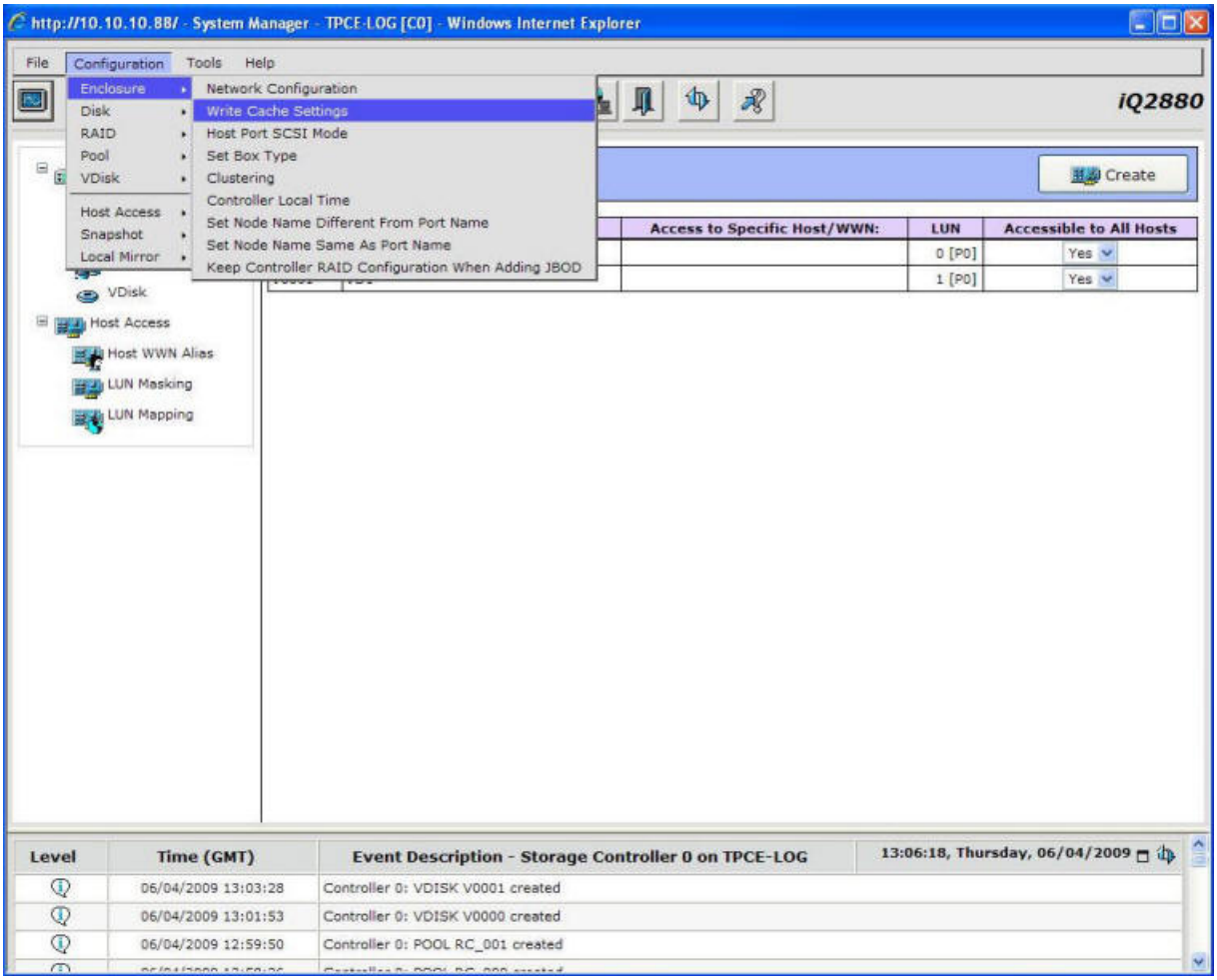
Click on Host Access.



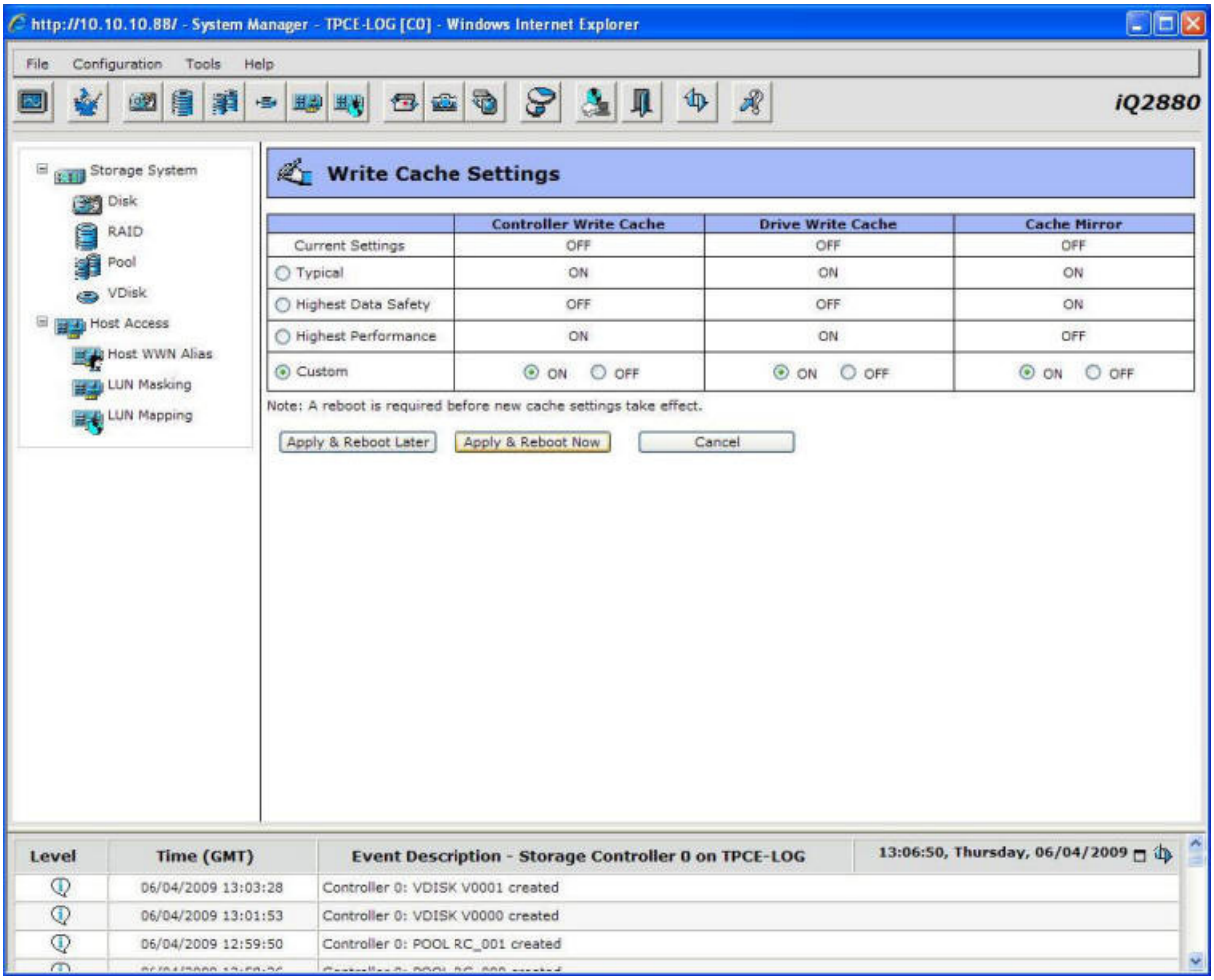
Click on LUN Masking.



Click on Yes under Accessible to All Host for both VDisks. The VDisks are now accessible through host port 0 of controller 0 & 1.



Click on Configuration Enclosure Write Cache Settings.



See Current Settings, Controller, Drive, and Cache Mirror are all off. Click on Custom and ON for the three Cache settings. Than click on Apply and Reboot Now.

The Log and TempDB configuration is complete.