- Test script : **test.sh**
- Test log files are placed in **test_log** folder in the source code
- **time** command of Linux is used to calculate the performance
- Buffer size is set to a maximum of **4096** bytes for every read / write
- Every access is repeated **200** times
- For multiple clients case, we ran tests with 2 or 3 clients accessing simultaneously.

Test Case 1: Relay Test Case

Here we try to search a file from compute-0-0 and the file is served by compute-0-3. This is to test that the request are relayed properly.

Relay				
File Size	Requestor	Provider	Time	
1k	compute-0-0	compute-0-3	34.53	
2k	compute-0-0	compute-0-1, 0-2	0.91	
4k	compute-0-0	compute-0-1	9.03	
8k	compute-0-0	compute-0-3	17.44	
Multiple requests				
8k	Compute-0-0, 0-1, 0-2	compute-0-3	17.438 / 17.458	

Test Case 2: Star Test Case with 4 nodes

compute-0-0 - Peers: compute-0-1, compute-0-2, compute-0-3 compute-0-1 - Peers: compute-0-0, compute-0-2, compute-0-3 compute-0-2 - Peers: compute-0-0, compute-0-1, compute-0-3 compute-0-3 - Peers: compute-0-0, compute-0-1, compute-0-2

	Star-4		
File Size	Requestor	Provider	
1k	compute-0-0	compute-0-3	
2k	compute-0-0	compute-0-1, 0-2	
4k	compute-0-0	compute-0-1	
8k	compute-0-0	compute-0-3	
Multiple requests			
8k	Compute-0-0, 0-1, 0-2	compute-0-3	

Test Case 3: Mesh Test Case with 10 nodes

10 Nodes : compute-0-0, compute-0-1, compute-0-2, compute-0-3, compute-0-10, compute-0-5, compute-0-6, compute-0-7, compute-0-8, compute-0-9

compute-0-0 - Peers : compute-0-1, compute-0-3

compute-0-1 - Peers : compute-0-0, compute-0-10, compute-0-2

compute-0-2 - Peers : compute-0-1, compute-0-5

compute-0-3 - Peers: compute-0-0, compute-0-10, compute-0-6

compute-0-10 - Peers: compute-0-1, compute-0-5, compute-0-7, compute-0-3

compute-0-5 - Peers: compute-0-2, compute-0-10, compute-0-8

compute-0-6 - Peers : compute-0-3, compute-0-7, compute-0-9

compute-0-7 - Peers: compute-0-6, compute-0-10, compute-0-8

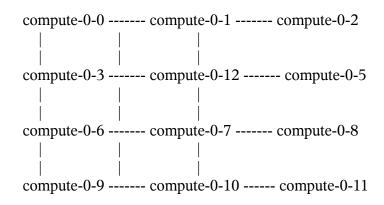
compute-0-8 - Peers : compute-0-5, compute-0-7

compute-0-9 - Peers : compute-0-6

Mesh-10			
File Size	Requestor	Provider	Time
1k	compute-0-1	compute-0-3	34.08
2k	compute-0-3	compute-0-10	1.76
4k	compute-0-7	compute-0-1	9.56
8k	compute-0-0	compute-0-9	17.35
Multiple requests			
8k	compute-0-0, 0-	compute-0-9	17.612 / 17.975

Test Case 4: Mesh Test Case with 12 nodes

10 Nodes : compute-0-0, compute-0-1, compute-0-2, compute-0-3, compute-0-10, compute-0-5, compute-0-6, compute-0-7, compute-0-8, compute-0-9, compute-0-11, compute-0-12



```
compute-0-0 - Peers : compute-0-1, compute-0-3
```

compute-0-10 - Peers: compute-0-9, compute-0-7, compute-0-11

compute-0-11 - Peers : compute-0-8, compute-0-10

Mesh-12				
File Size	Requestor	Provider	Time	
1k	compute-0-1	compute-0-3	34.14	
2k	compute-0-3	compute-0-10	7.44	
4k	compute-0-0	compute-0-1	9.75	
8k	compute-0-0	compute-0-9	18.03	
Multiple requests				
8k	compute-0-0, 0-	compute-0-3	17.752 /	
	I	•	17.891	

Test Case 5: Star Test Case with 10 nodes

10 Nodes: compute-0-0, compute-0-1, compute-0-2, compute-0-3, compute-0-10, compute-0-5, compute-0-6, compute-0-7, compute-0-9

compute-0-0 - Peers : compute-0-1, compute-0-2, compute-0-3, compute-0-10, compute-0-5, compute-0-6, compute-0-7, compute-0-8, compute-0-9

compute-0-1 - Peers : compute-0-0, compute-0-2, compute-0-3, compute-0-10, compute-0-5, compute-0-6, compute-0-7, compute-0-9

compute-0-2 - Peers : compute-0-0, compute-0-1, compute-0-3, compute-0-10, compute-0-5, compute-0-6, compute-0-7, compute-0-8, compute-0-9

compute-0-3 - Peers : compute-0-0, compute-0-1, compute-0-2, compute-0-10, compute-0-5, compute-0-6, compute-0-7, compute-0-8, compute-0-9

compute-0-10 - Peers : compute-0-0, compute-0-1, compute-0-2, compute-0-3, compute-0-5, compute-0-6, compute-0-7, compute-0-9

compute-0-5 - Peers : compute-0-0, compute-0-1, compute-0-2, compute-0-3, compute-0-10, compute-0-6, compute-0-7, compute-0-9

compute-0-6 - Peers : compute-0-0, compute-0-1, compute-0-2, compute-0-3, compute-0-10, compute-0-5, compute-0-7, compute-0-9

compute-0-7 - Peers : compute-0-0, compute-0-1, compute-0-2, compute-0-3, compute-0-10, compute-0-5, compute-0-6, compute-0-9

compute-0-8 - Peers : compute-0-0, compute-0-1, compute-0-2, compute-0-3, compute-0-10, compute-0-5, compute-0-6, compute-0-9

compute-0-9 - Peers : compute-0-0, compute-0-1, compute-0-2, compute-0-3, compute-0-10, compute-0-5, compute-0-6, compute-0-7, compute-0-8

Star-10			
File Size	Requestor	Provider	Time
1k	compute-0-0	compute-0-3	36.28
2k	compute-0-0	compute-0-10	3.66
4k	compute-0-0	compute-0-1	11.86
8k	compute-0-0	compute-0-9	19.87
Multiple requests			
8k	compute-0-0, 0-	compute-0-3	19.911 / 19.885