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# Tests Run

### Component Testing

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| **Test** | **Test Steps** | **Expected Result** | **Actual result** |
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### Integration Testing

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| **Test** | **Test Steps** | **Expected Result** | **Actual result** |
| Search File | 1. Start peer 1 2. Start peer 2 3. Enter “Test1.txt” in peer2 | File Test1.txt with the same content is created in peer2 | Success |
| Obtain file of size 1kb | 1. Create/copy file Test1.txt of size 1KB in peer 1 working directory 2. Start peer 1 3. Start peer 2 4. Enter “Test1.txt” in peer2 | File Test1.txt with the same content is created in peer2 | Success |
| Obtain file of size 2kb | 1. Create/copy file Test1.txt of size 2KB in peer 1 working directory 2. Start peer 1 3. Start peer 2 4. Enter “Test1.txt” in peer2 | File Test1.txt with the same content is created in peer2 | Success |
| Obtain file of size 3kb | 1. Create/copy file Test1.txt of size 3KB in peer 1 working directory 2. Start peer 1 3. Start peer 2 4. Enter “Test1.txt” in peer2 | File Test1.txt with the same content is created in peer2 | Success |
| Obtain file of size 5kb | 1. Create/copy file Test1.txt of size 5KB in peer 1 working directory 2. Start peer 1 3. Start peer 2 4. Enter “Test1.txt” in peer2 | File Test1.txt with the same content is created in peer2 | Success |
| Obtain file of size 6kb | 1. Create/copy file Test1.txt of size 6KB in peer 1 working directory 2. Start peer 1 3. Start peer 2 4. Enter “Test1.txt” in peer2 | File Test1.txt with the same content is created in peer2 | Success |
| Obtain file of size 10kb | 1. Create/copy file Test1.txt of size 10KB in peer 1 working directory 2. Start peer 1 3. Start peer 2 4. Enter “Test1.txt” in peer2 | File Test1.txt with the same content is created in peer2 | Success |
| Ring Structure Test: 1 client | 1. Deploy ring structure with 10 peers 2. Keep 1 text file Test6.txt in 6th peer 3. Query for the text file in 1st peer Repeat 200 times 4. Measure the round time in each case | File Test6.txt with the same content is created in 1st peer | Success |
| Ring Structure Test: 2 clients | 1. Deploy ring structure with 10 peers 2. Keep 1 text file Test6.txt in 6th peer 3. Query for the text file in 1st 2nd peer. Repeat 200 times 4. Measure the round time in each case | File Test6.txt with the same content is created in 1st 2nd peer | Success |
| Ring Structure Test: 3 clients | 1. Deploy ring structure with 10 peers 2. Keep 1 text file Test6.txt in 6th peer 3. Query for the text file in 1st 2nd 3rd peer. Repeat 200 times 4. Measure the round time in each case | File Test6.txt with the same content is created in 1st 2nd 3rd peer | Success |
| Ring Structure Test: 4 clients | 1. Deploy ring structure with 10 peers 2. Keep 1 text file Test6.txt in 6th peer 3. Query for the text file in 1st 2nd 3rd 4th peer. Repeat 200 times 4. Measure the round time in each case | File Test6.txt with the same content is created in 1st 2nd 3rd 4th peer | Success |
| Ring Structure Test: 5 clients | 1. Deploy ring structure with 10 peers 2. Keep 1 text file Test6.txt in 6th peer 3. Query for the text file in 1st 2nd 3rd 4th 5th peer. Repeat 200 times 4. Measure the round time in each case | File Test6.txt with the same content is created in 1st 2nd 3rd 4th 5th peer | Success |
| Ring Structure Test: 6 clients | 1. Deploy ring structure with 10 peers 2. Keep 1 text file Test6.txt in 6th peer 3. Query for the text file in 1st 2nd 3rd 4th 5th 7th peer. Repeat 200 times 4. Measure the round time in each case | File Test6.txt with the same content is created in 1st 2nd 3rd 4th 5th 7th peer | Success |
| Star Structure Test : 1 client | 1. Deploy star structure with 10 peers with the 6th peer in the center 2. Keep 1 text file Test6.txt in 10th peer 3. Query for the text file in 1st peer. Repeat 200 times 4. Measure the round time in each case | File Test6.txt with the same content is created in 1st peer | Success |
| Star Structure Test : 2 client | 1. Deploy star structure with 10 peers with the 6th peer in the center 2. Keep 1 text file Test6.txt in 10th peer 3. Query for the text file in 1st and 2nd peer. Repeat 200 times 4. Measure the round time in each case | File Test6.txt with the same content is created in 1st 2nd peer | Success |
| Star Structure Test : 3 client | 1. Deploy star structure with 10 peers with the 6th peer in the center 2. Keep 1 text file Test6.txt in 10th peer 3. Query for the text file in 1st 2nd and 3rd peers. Repeat 200 times 4. Measure the round time in each case | File Test6.txt with the same content is created in 1st 2nd 3rd peer | Success |
| Star Structure Test : 4 client | 1. Deploy star structure with 10 peers with the 6th peer in the center 2. Keep 1 text file Test6.txt in 10th peer 3. Query for the text file in 1st 2nd 3rd and 4th peer. Repeat 200 times 4. Measure the round time in each case | File Test6.txt with the same content is created in 1st 2nd 3rd 4th peer | Success |
| Star Structure Test : 5 client | 1. Deploy star structure with 10 peers with the 6th peer in the center 2. Keep 1 text file Test6.txt in 10th peer 3. Query for the text file in 1st 2nd 3rd 4th 5th peer Repeat 200 times 4. Measure the round time in each case | File Test6.txt with the same content is created in 1st 2nd 3rd 4th 5th peer | Success |
| Star Structure Test : 6 client | 1. Deploy star structure with 10 peers with the 6th peer in the center 2. Keep 1 text file Test6.txt in 10th peer 3. Query for the text file in 1st 2nd 3rd 4th 5th 7th peer. Repeat 200 times 4. Measure the round time in each case | File Test6.txt with the same content is created in 1st 2nd 3rd 4th 5th 7th peer | Success |
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