INEC STATES DATABASE CONSOLIDATION

SERVER UPGRADE – COMPLETED AT INEC – HEADQUARTERS

2

The Server Upgrade Process involves the upgrade of the standard supplied Dell Power Edge R410 Server to achieve 8TB of HDD, 64GB of RAM and 2 QUAD CORE Processor using the component of one Machine A to upgrade another Machine B.

DATA CONSOLIDATION PROCESS

1. Category 1 (page 2 - 15)

   States without consolidation

2. Category 2 (page 16 - 25)
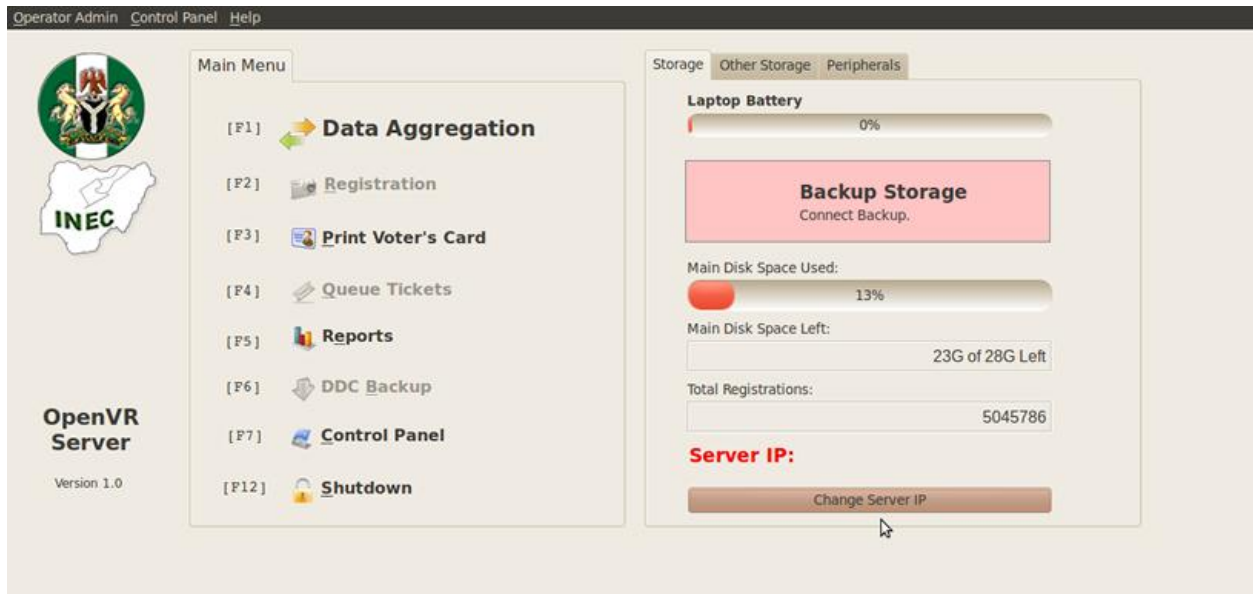
   States with consolidation

STATES WITHOUT CONSOLIDATION   -1

KEY PROCESSES (ON UPGRADED SERVER A)

1. Configure the IP Address as the first destination Server
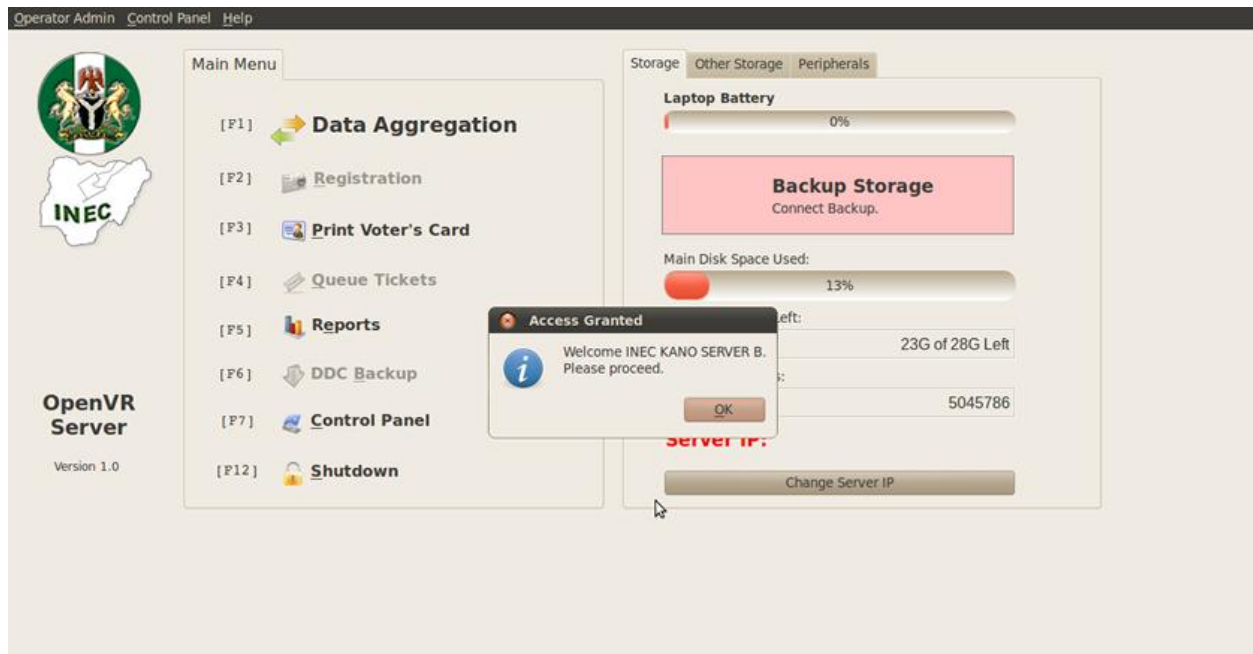
   - Connect your cross cable to the state OpenVR Server and Upgraded Server A
   - From the OpenVR Server Interface Click on Change Server IP
     ### (ON UPGRADED SERVER A)

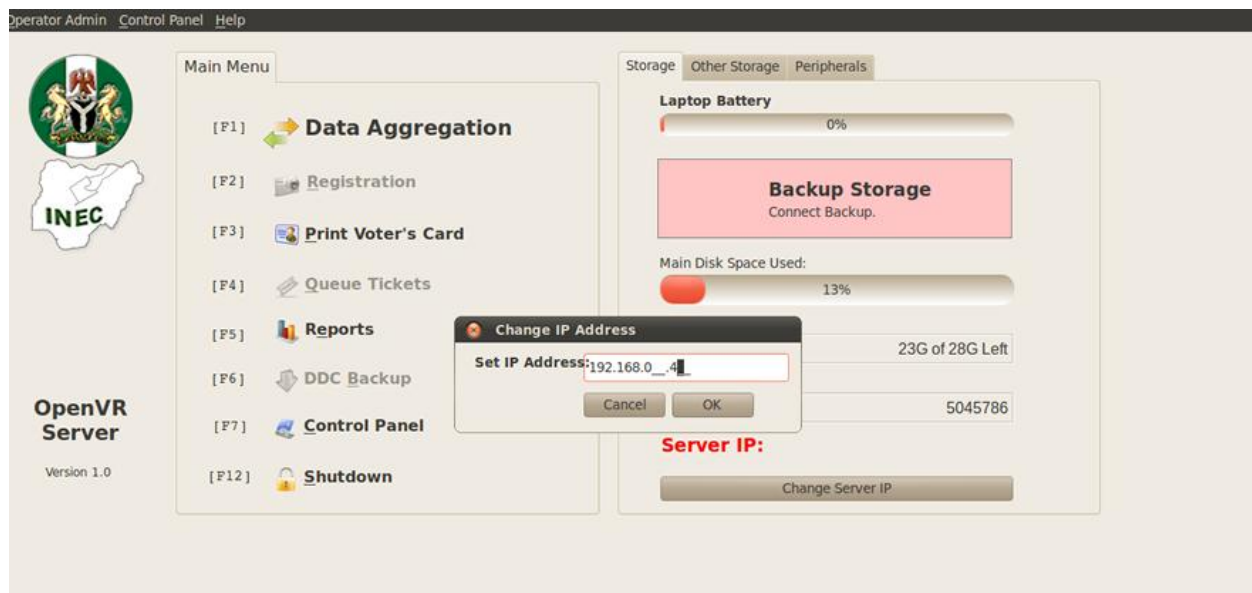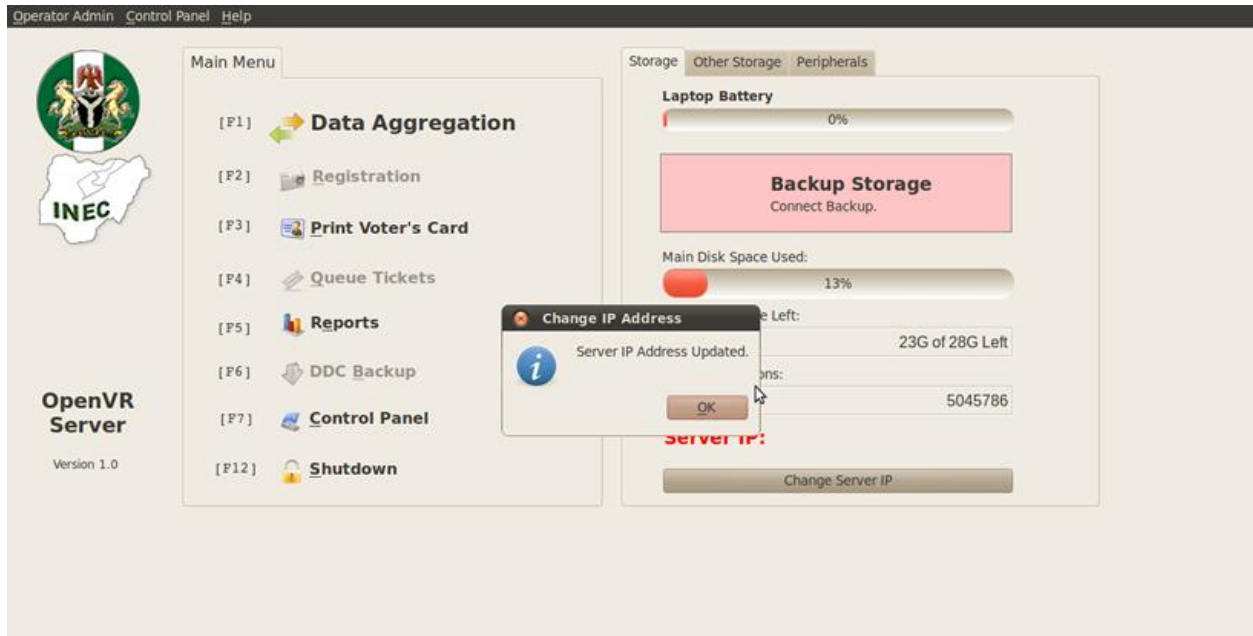

   - Enter The Admin ID and password given to you.

- If correct, you will see a Access Granted dialog box, ok it. Otherwise enter the correct Admin ID and or password.
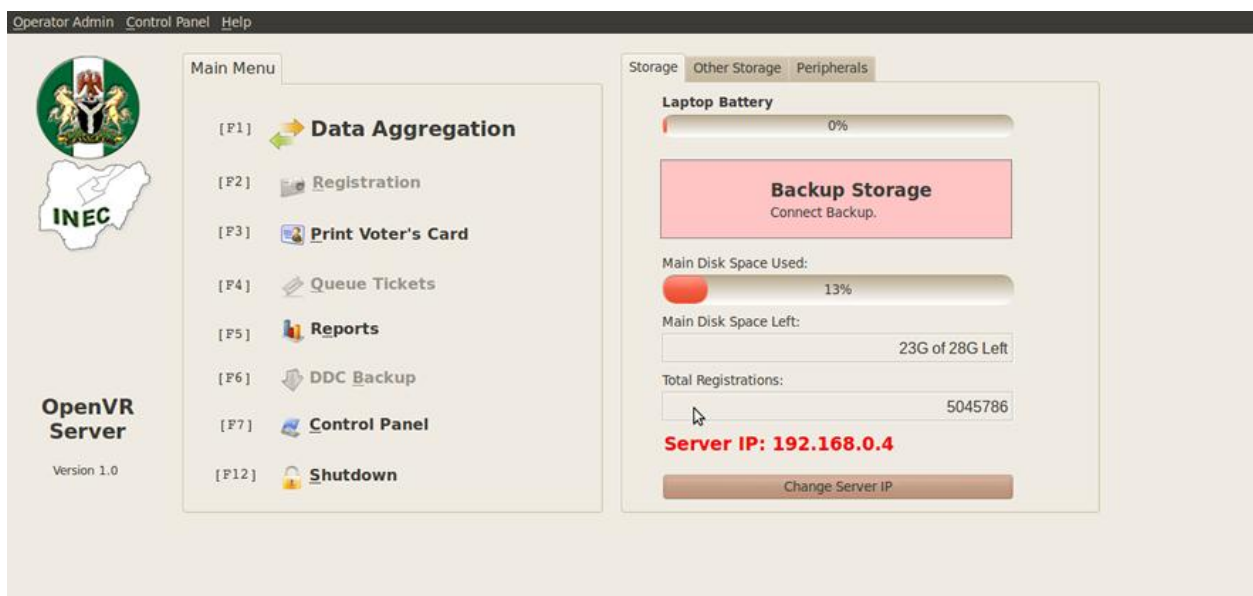

- Set the IP address to 192.168.0.4 and press ok button.

- A dialogue box will show "Server IP Address Updated", ok it.

- Confirm that the Server IP address will automatically change. If shown proceed to the next stage.

2. Mirror Data From the State OpenVR to Upgraded Server A (using the CiTool)
   - Connect your Hard Drive that contains the SmartConsolidate Folder to the **State OpenVR Server**
   - Wait for it to automatically open
   - Navigate to the folder SmartConsolidate
   - Double Click on "citool"
   - Click "Step 2 – Mirror to New Upgraded Server"
   - A prompt will request you to hit the Enter key to continue
   - Confirm that the transfer is atleast 50mbps
   - Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close
   - To comfirm if it has mirrored successfully go the the destination Server and reboot the server.
   - After reboot it will automatically show you exactly the total registered voters as that of the state OpenVR server displayed on the opevr interface.

<p align="center">(ON STATE OPENVR SERVER)</p>
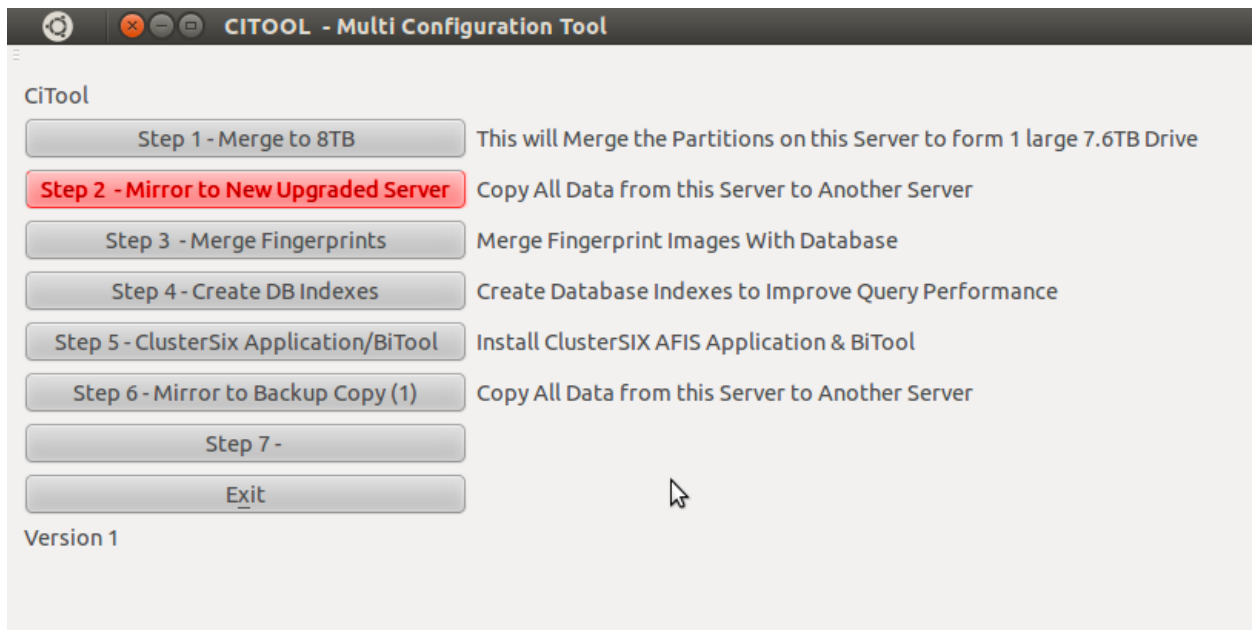
3. Merge FingerPrints Data on the Upgraded Server A (using the CiTool)
   - Login to the Upgraded Server A
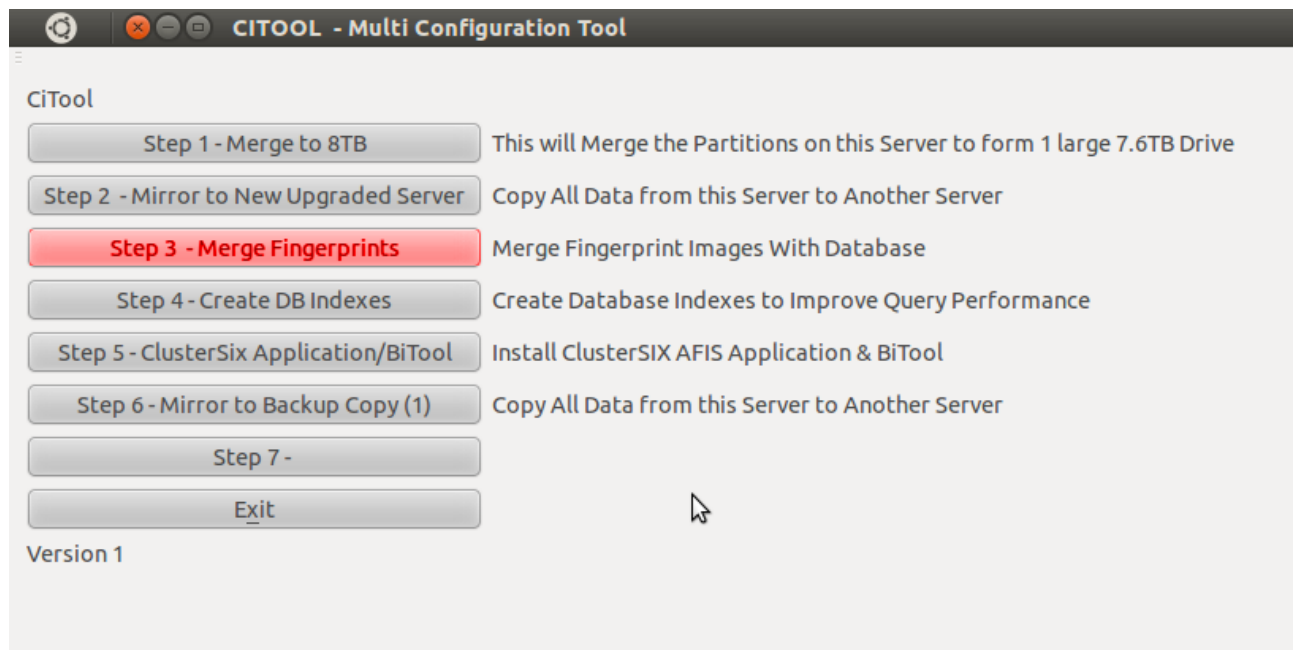   - Connect your Hard Drive that contains the SmartConsolidate Folder
   - Wait for it to automatically open
   - Navigate to the folder SmartConsolidate
   - Double Click on "citool"
   - Click "Step 3 – Merge Fingerprints"
   - A prompt will request you to hit the Enter key to continue
   - Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close

(ON UPGRADED SERVER A)

CITOOL - Multi Configuration Tool	
CiTool	
Step 1 - Merge to 8TB	This will Merge the Partitions on this Server to form 1 large 7.6TB Drive
Step 2 - Mirror to New Upgraded Server	Copy All Data from this Server to Another Server
Step 3 - Merge Fingerprints	Merge Fingerprint Images With Database
Step 4 - Create DB Indexes	Create Database Indexes to Improve Query Performance
Step 5 - ClusterSix Application/BiTool	Install ClusterSIX AFIS Application & BiTool
Step 6 - Mirror to Backup Copy (1)	Copy All Data from this Server to Another Server
Step 7 -	
Exit	

Version 1

4. Create Database Indexes on the Upgraded Server A (using the CiTool)
    ▪ Alt+tab to navigate to the a window that your hard drive is connected to
    ▪ Navigate to the folder SmartConsolidate
    ▪ Double Click on "citool"
    ▪ Click "Step 4 – Create DB indexes"
    ▪ A prompt will request you to hit the Enter key to continue
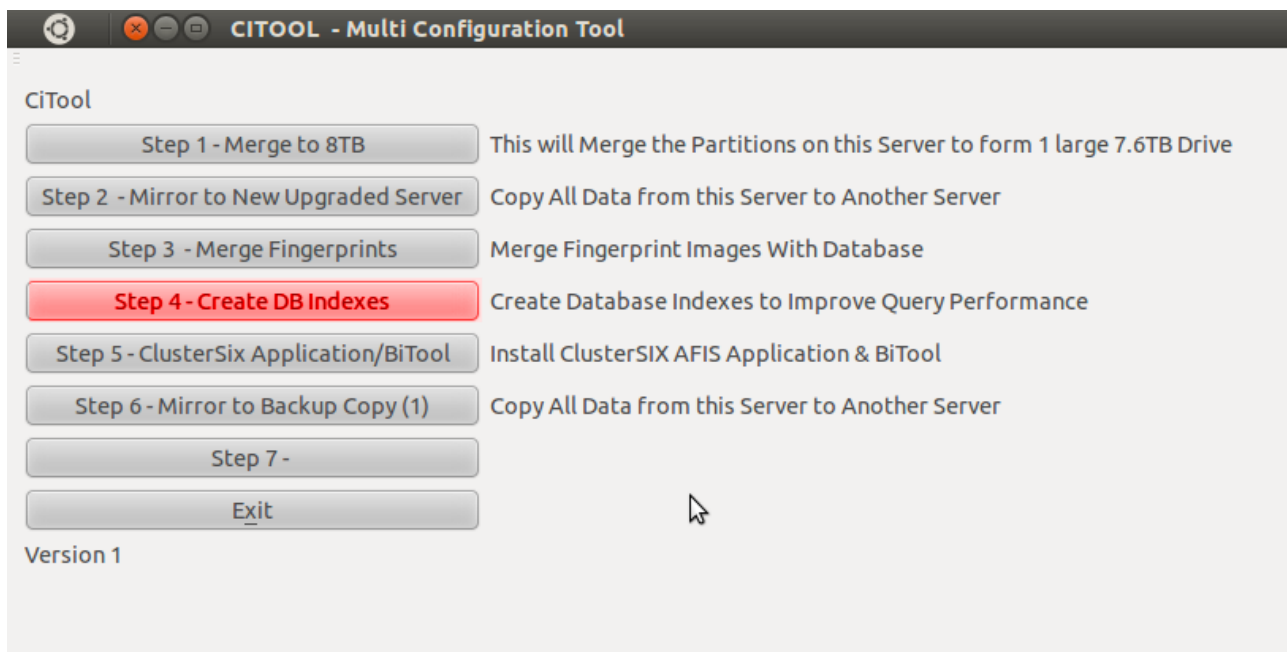   ▪ Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close

<p align="center">(ON UPGRADED SERVER A)</p>

5. Salvage and Migrate Data for PU's with Zero registrant to the Upgraded Server A (using the OpenVR Server Interface)
    ▪ From the Generated PU Aggregation Report sort and identify PU's with zero registrant
    ▪ Search for the laptops and migrate the data either through Server Dump to a Hard drive or via the network.
    ▪ Copy or Import using Openvr Server Interface
    ▪ Consolidate using Openvr Server Interface
    ▪ Repeat Step 3 only, as detailed above.

- Reboot the Server

6. Installation of ClusterSix Application/BI tool on the Upgraded Server A (using the CiTool)
   - Connect your Hard Drive that contains the SmartConsolidate Folder
   - Wait for it to automatically open
   - Navigate to the folder SmartConsolidate
   - Double Click on "citool"
   - Click "Step 5 – ClusterSix Application/BI Tool"
   - A prompt will request you to hit the Enter key to continue
   - Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close

(ON UPGRADED SERVER A)

STATES WITHOUT CONSOLIDATION   -1

1. Configure the IP Address as the Second destination Server

    ▪ Configure the IP address on the Upgraded Server B as shown above in Configuring IP Address using OPenVR Interface

2. Mirror Data From the Upgraded Server A to Upgraded Server B (using the CiTool)
    ▪ Connect your Hard Drive that contains the SmartConsolidate Folder to the Upgraded Server A
    ▪ Wait for it to automatically open
    ▪ Navigate to the folder SmartConsolidate
    ▪ Double Click on "citool"
    ▪ Click "Step 2 – Mirror to New Upgraded Server"
    ▪ A prompt will request you to hit the Enter key to continue
    ▪ Confirm that the transfer is atleast 50mbps
    ▪ Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close
    ▪ To comfirm if it has mirrored successfully go the the destination Server and reboot the server.
    ▪ After reboot it will automatically show you exactly the total registered voters as that of the Upgraded server A displayed on the opevr interface.

CITOOL - Multi Configuration Tool

CiTool

Step 1 - Merge to 8TB	This will Merge the Partitions on this Server to form 1 large 7.6TB Drive
Step 2 - Mirror to New Upgraded Server	Copy All Data from this Server to Another Server
Step 3 - Merge Fingerprints	Merge Fingerprint Images With Database
Step 4 - Create DB Indexes	Create Database Indexes to Improve Query Performance
Step 5 - ClusterSix Application/BiTool	Install ClusterSIX AFIS Application & BiTool
Step 6 - Mirror to Backup Copy (1)	Copy All Data from this Server to Another Server
Step 7 -	
Exit	

Version 1

3. Installation of ClusterSix Application/BI tool on the Upgraded Server B (using the CiTool)

- Installation of ClusterSix Application/BI tool on the Upgraded Server B (using the CiTool)
- Connect your Hard Drive that contains the SmartConsolidate Folder
- Wait for it to automatically open
- Navigate to the folder SmartConsolidate
- Double Click on "citool"
- Click "Step 5 – ClusterSix Application/BI Tool"
- A prompt will request you to hit the Enter key to continue
- Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close

<p style="text-align:center;color:red;">(ON UPGRADED SERVER B)</p>

STATES WITHOUT CONSOLIDATION   -1

1. Configure the IP Address as the Second destination Server

    ▪ Configure the IP address on the Upgraded Server C as shown above in Configuring IP Address using OPenVR Interface

2. Mirror Data From the Upgraded Server A to Upgraded Server C (using the CiTool)
    ▪ Connect your Hard Drive that contains the SmartConsolidate Folder to the Upgraded Server A
    ▪ Wait for it to automatically open
    ▪ Navigate to the folder SmartConsolidate
    ▪ Double Click on "citool"
    ▪ Click "Step 2 – Mirror to New Upgraded Server"
    ▪ A prompt will request you to hit the Enter key to continue
    ▪ Confirm that the transfer is atleast 50mbps
    ▪ Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close
    ▪ To comfirm if it has mirrored successfully go the the destination Server and reboot the server.
    ▪ After reboot it will automatically show you exactly the total registered voters as that of the Upgraded server A displayed on the opevr interface.
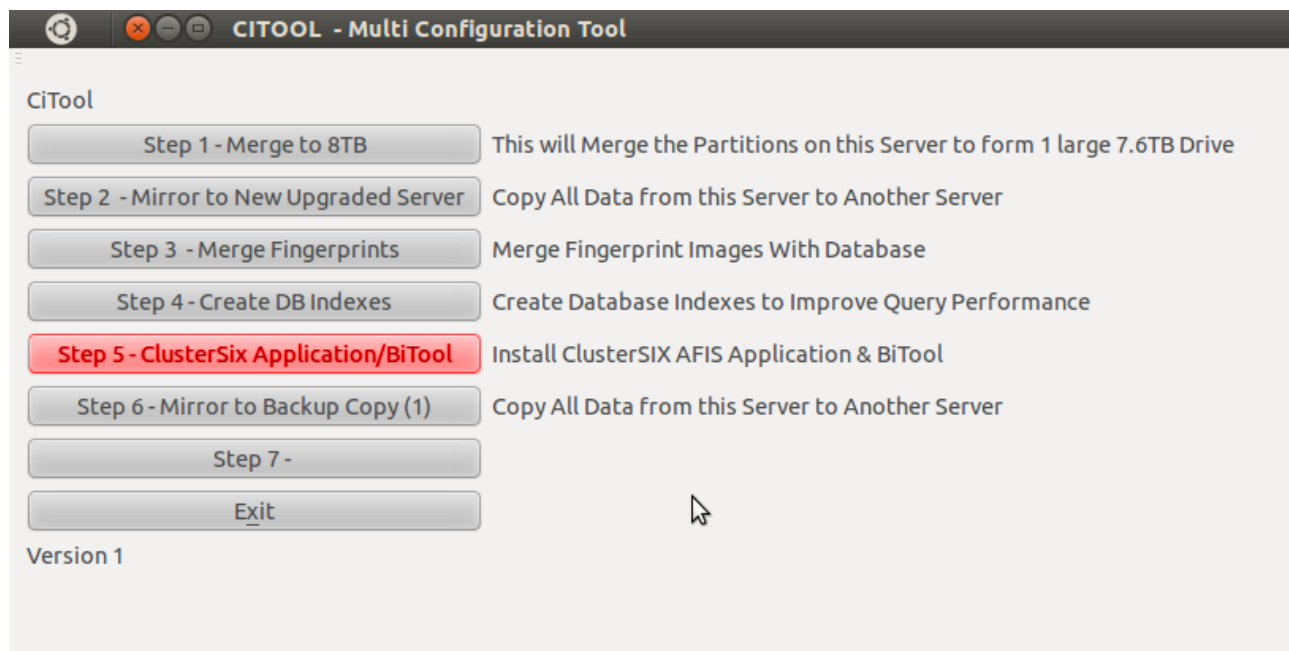
(ON UPGRADED SERVER A)

CITOOL - Multi Configuration Tool

CiTool

Step 1 - Merge to 8TB	This will Merge the Partitions on this Server to form 1 large 7.6TB Drive
Step 2 - Mirror to New Upgraded Server	Copy All Data from this Server to Another Server
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Step 6 - Mirror to Backup Copy (1)	Copy All Data from this Server to Another Server
Step 7 -	
Exit	

Version 1
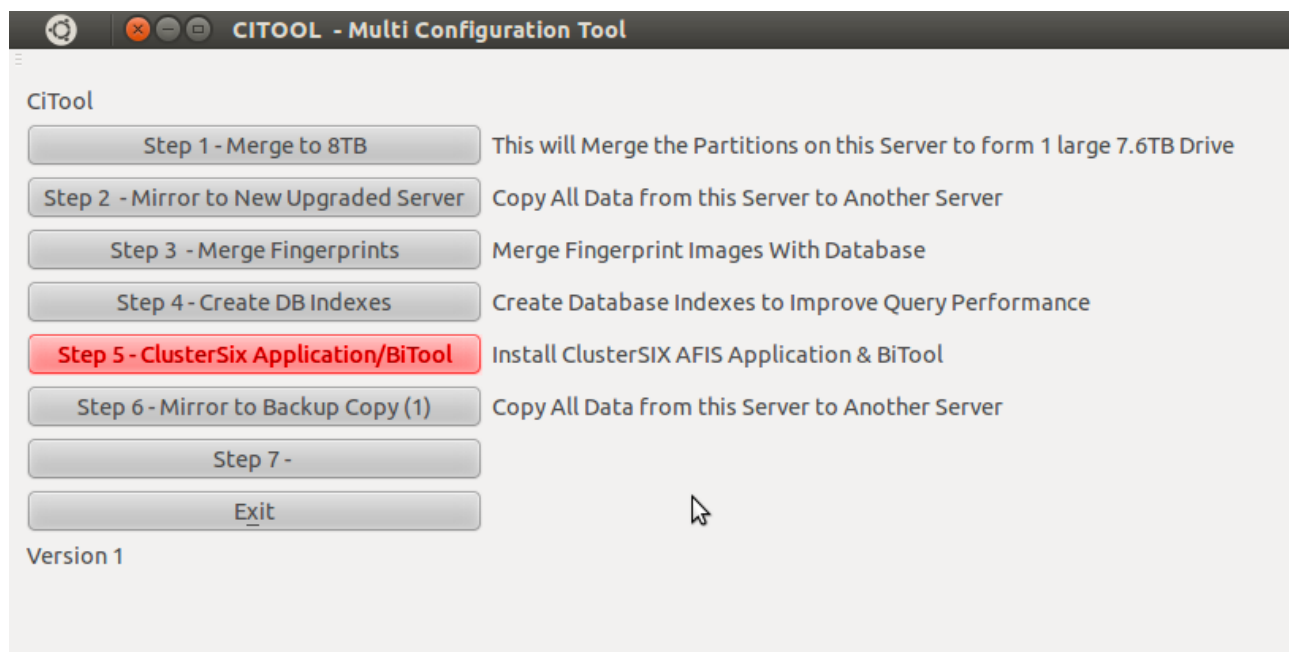
3. Installation of ClusterSix Application/BI tool on the Upgraded Server C (using the CiTool)

- Installation of ClusterSix Application/BI tool on the Upgraded Server C (using the CiTool)
- Connect your Hard Drive that contains the SmartConsolidate Folder
- Wait for it to automatically open
- Navigate to the folder SmartConsolidate
- Double Click on "citool"
- Click "Step 5 – ClusterSix Application/BI Tool"
- A prompt will request you to hit the Enter key to continue
- Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close

(ON UPGRADED SERVER C)

CITOOL - Multi Configuration Tool	
CiTool	
Step 1 - Merge to 8TB	This will Merge the Partitions on this Server to form 1 large 7.6TB Drive
Step 2 - Mirror to New Upgraded Server	Copy All Data from this Server to Another Server
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Step 4 - Create DB Indexes	Create Database Indexes to Improve Query Performance
Step 5 - ClusterSix Application/BiTool	Install ClusterSIX AFIS Application & BiTool
Step 6 - Mirror to Backup Copy (1)	Copy All Data from this Server to Another Server
Step 7 -	
Exit	

Version 1

STATES WITH CONSOLIDATION   -2

KEY PROCESSES (ON UPGRADED SERVER A)

1. Generate PU Aggregation on the Upgraded Server A (using the OpenVR Interface)

    - From the Generated PU Aggregation Report sort and identify PU's with zero registrant
    - Search for the laptops and migrate the data either through Server Dump to a Hard drive or via the network.
    - Copy or Import using Openvr Server
    - Consolidate using Openvr Server
    - Reboot the Server

2. Configure the IP Address as the first destination Server

    - Configure the IP address on the Upgraded Server A as shown above in Configuring IP Address using OPenVR Interface

3. Login to the Archive Server.

- Connect your Hard Drive that contains the MirroFParchive Folder to the Archive Server
- Wait for it to automatically open
- Navigate to the folder MirroFParchive
- Double Click on "MirroFParchive"
- Click " mirror_fp_archive" icon
- A prompt will request you to hit the Enter key to continue
- Confirm that the transfer is atleast 50mbps
- Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close

4. Merge FingerPrints Data on the Upgraded Server A (using the CiTool)

- Login to the Upgraded Server A
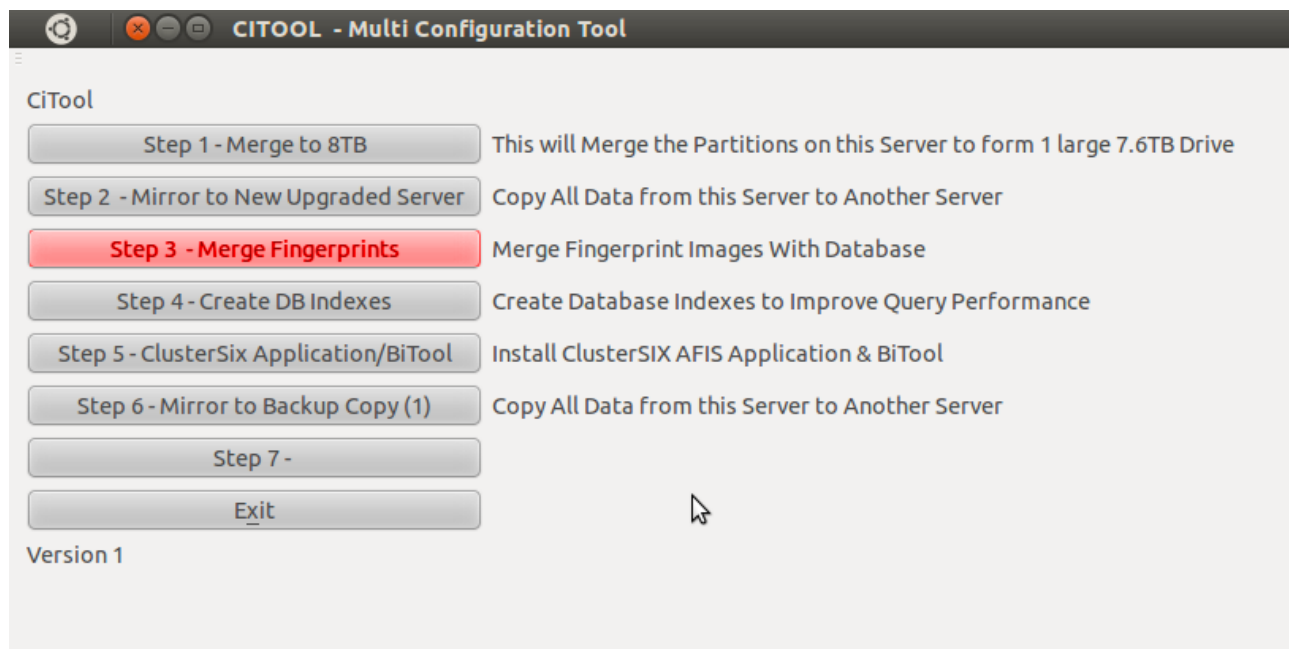- Connect your Hard Drive that contains the SmartConsolidate Folder
- Wait for it to automatically open
- Navigate to the folder SmartConsolidate
- Double Click on "citool"
- Click "Step 3 – Merge Fingerprints"
- A prompt will request you to hit the Enter key to continue
- Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close

(ON UPGRADED SERVER A)

CITOOL - Multi Configuration Tool

CiTool

Step 1 - Merge to 8TB	This will Merge the Partitions on this Server to form 1 large 7.6TB Drive
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Step 5 - ClusterSix Application/BiTool	Install ClusterSIX AFIS Application & BiTool
Step 6 - Mirror to Backup Copy (1)	Copy All Data from this Server to Another Server
Step 7 -	
Exit	

Version 1

5. Installation of ClusterSix Application/BI tool on the Upgraded Server A (using the CiTool)

- Connect your Hard Drive that contains the SmartConsolidate Folder
- Wait for it to automatically open
- Navigate to the folder SmartConsolidate
- Double Click on "citool"
- Click "Step 5 – ClusterSix Application/BI Tool"
- A prompt will request you to hit the Enter key to continue
- Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close
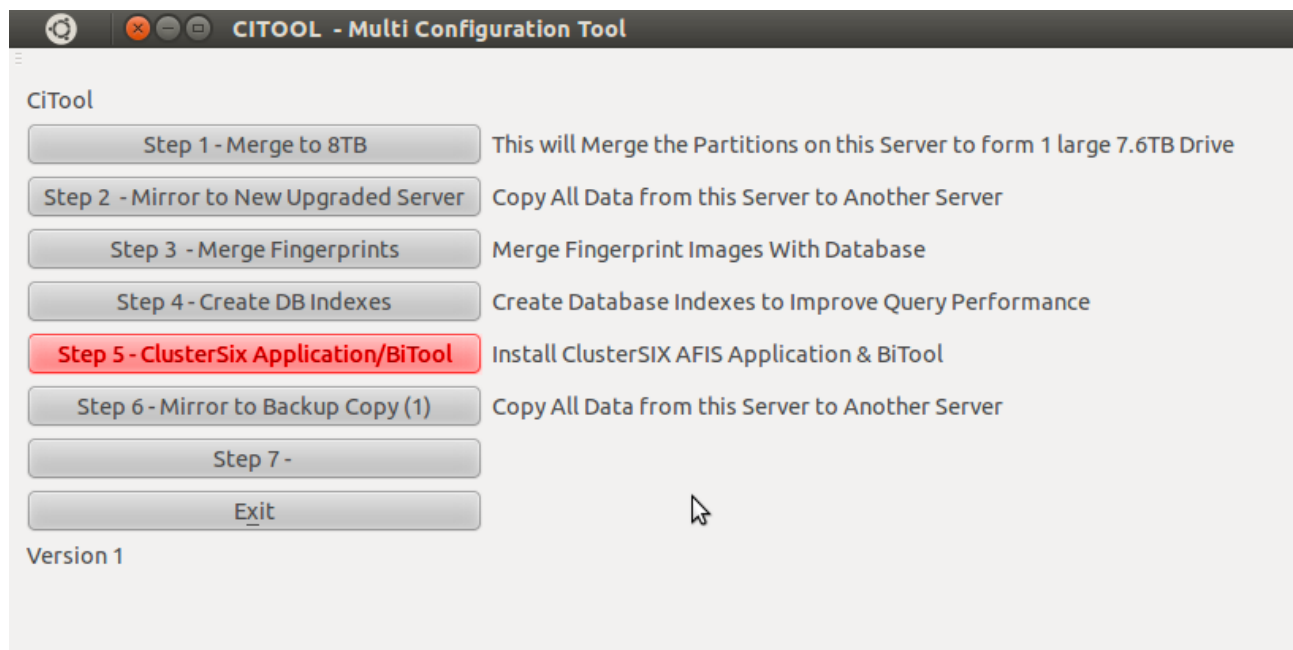
(ON UPGRADED SERVER A)

CITOOL - Multi Configuration Tool

CiTool

Step 1 - Merge to 8TB	This will Merge the Partitions on this Server to form 1 large 7.6TB Drive
Step 2 - Mirror to New Upgraded Server	Copy All Data from this Server to Another Server
Step 3 - Merge Fingerprints	Merge Fingerprint Images With Database
Step 4 - Create DB Indexes	Create Database Indexes to Improve Query Performance
Step 5 - ClusterSix Application/BiTool	Install ClusterSIX AFIS Application & BiTool
Step 6 - Mirror to Backup Copy (1)	Copy All Data from this Server to Another Server
Step 7 -	
Exit	

Version 1

STATES WITH CONSOLIDATION   -2

KEY PROCESSES (ON UPGRADED SERVER B)
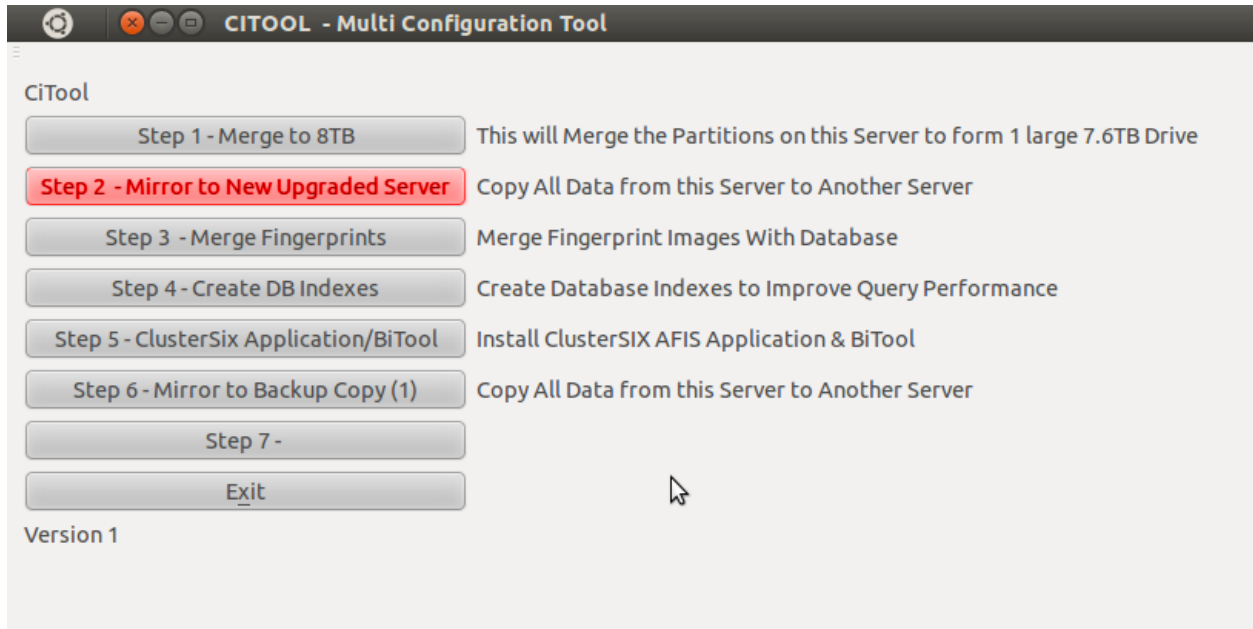
1. Configure the IP Address as the First destination Server

    - Configure the IP address on the Upgraded Server B as shown above in Configuring IP Address using OPenVR Interface

2. Mirror Data From the Upgraded Server A to Upgraded Backup Server B (using the CiTool)
    - Connect your Hard Drive that contains the SmartConsolidate Folder to the Upgraded Server A
    - Wait for it to automatically open
    - Navigate to the folder SmartConsolidate
    - Double Click on "citool"
    - Click "Step 2 – Mirror to New Upgraded Server"
    - A prompt will request you to hit the Enter key to continue
    - Confirm that the transfer is atleast 50mbps
    - Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close
    - To comfirm if it has mirrored successfully go the the destination Server and reboot the server.
    - After reboot it will automatically show you exactly the total registered voters as that of the Upgraded server A displayed on the opevr interface.
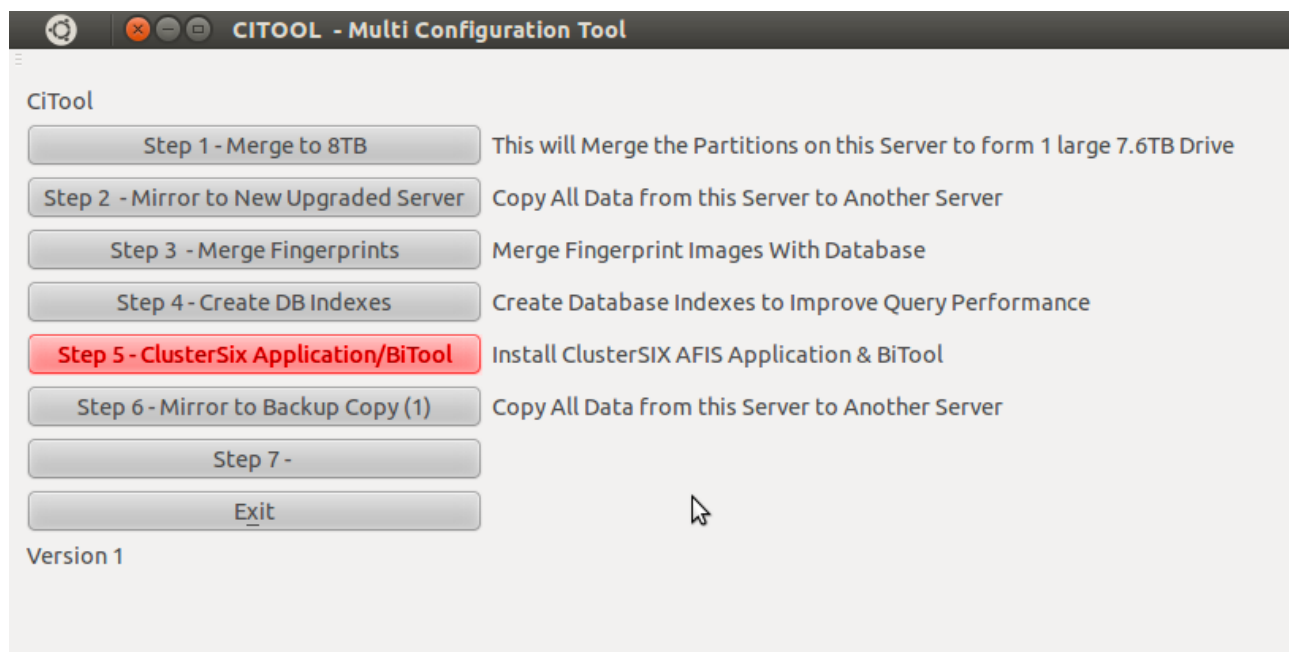
(ON UPGRADED SERVER A)

CITOOL - Multi Configuration Tool

CiTool

| Step 1 - Merge to 8TB | This will Merge the Partitions on this Server to form 1 large 7.6TB Drive |

Step 2 - Mirror to New Upgraded Server — Copy All Data from this Server to Another Server

Step 3 - Merge Fingerprints — Merge Fingerprint Images With Database

Step 4 - Create DB Indexes — Create Database Indexes to Improve Query Performance

Step 5 - ClusterSix Application/BiTool — Install ClusterSIX AFIS Application & BiTool

Step 6 - Mirror to Backup Copy (1) — Copy All Data from this Server to Another Server

Step 7 -

Exit

Version 1

3. Installation of ClusterSix Application/BI tool on the Upgraded Backup Server B (using the CiTool)

- Installation of ClusterSix Application/BI tool on the Upgraded Backup Server B (using the CiTool)
- Connect your Hard Drive that contains the SmartConsolidate Folder
- Wait for it to automatically open
- Navigate to the folder SmartConsolidate
- Double Click on "citool"
- Click "Step 5 – ClusterSix Application/BI Tool"
- A prompt will request you to hit the Enter key to continue
- Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close

(ON UPGRADED SERVER B)

STATES WITH CONSOLIDATION   -2
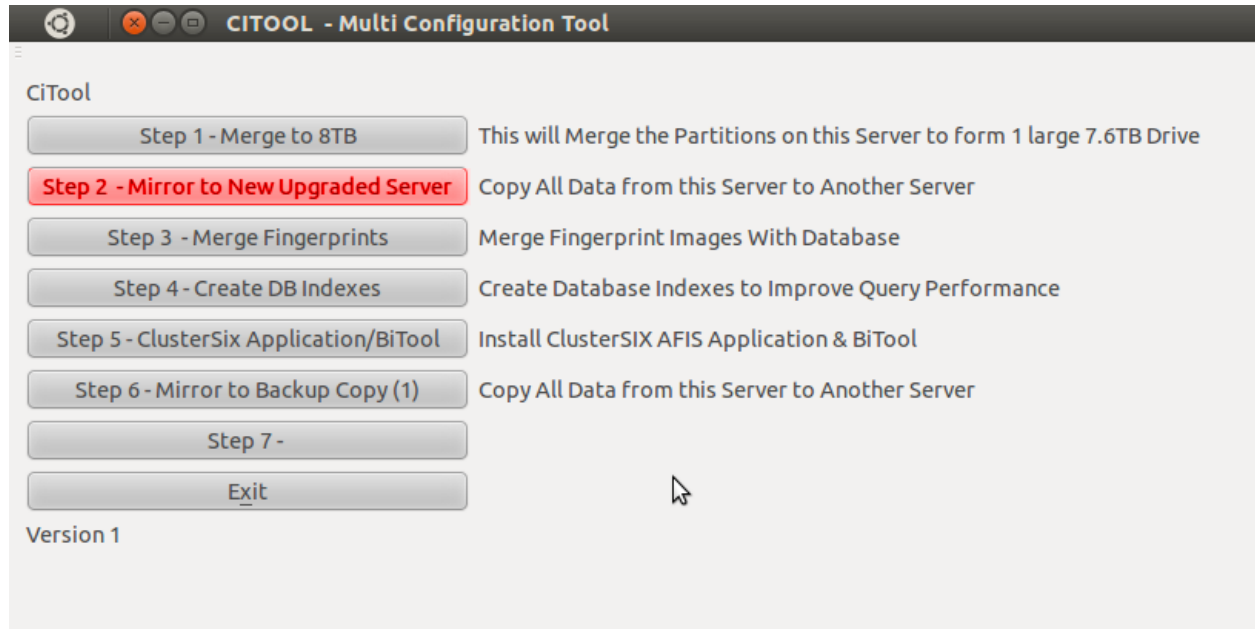## KEY PROCESSES (ON UPGRADED SERVER C)

1. Configure the IP Address as the Second destination Server

   - Configure the IP address on the Upgraded Server C as shown above in Configuring IP Address using OPenVR Interface

2. Mirror Data From the Upgraded Server A to Upgraded Server C (using the CiTool)
   - Connect your Hard Drive that contains the SmartConsolidate Folder to the Upgraded Server A
   - Wait for it to automatically open
   - Navigate to the folder SmartConsolidate
   - Double Click on "citool"
   - Click "Step 2 – Mirror to New Upgraded Server"
   - A prompt will request you to hit the Enter key to continue
   - Confirm that the transfer is atleast 50mbps
   - Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close
   - To comfirm if it has mirrored successfully go the the destination Server and reboot the server.
   - After reboot it will automatically show you exactly the total registered voters as that of the Upgraded server A displayed on the opevr interface.

(ON UPGRADED SERVER A)

CITOOL - Multi Configuration Tool

CiTool

Step 1 - Merge to 8TB	This will Merge the Partitions on this Server to form 1 large 7.6TB Drive
Step 2 - Mirror to New Upgraded Server	Copy All Data from this Server to Another Server
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Step 4 - Create DB Indexes	Create Database Indexes to Improve Query Performance
Step 5 - ClusterSix Application/BiTool	Install ClusterSIX AFIS Application & BiTool
Step 6 - Mirror to Backup Copy (1)	Copy All Data from this Server to Another Server
Step 7 -	
Exit	

Version 1

3. Installation of ClusterSix Application/BI tool on the Upgraded Server C (using the CiTool)

- Installation of ClusterSix Application/BI tool on the Upgraded Server C (using the CiTool)
- Connect your Hard Drive that contains the SmartConsolidate Folder
- Wait for it to automatically open
- Navigate to the folder SmartConsolidate
- Double Click on "citool"
- Click "Step 5 – ClusterSix Application/BI Tool"
- A prompt will request you to hit the Enter key to continue
- Wait for it to complete. Untill you see another prompt requesting you to hit the Enter key to close

(ON UPGRADED SERVER C)