Citrix Provisioning Services (PVS) Boot Process

1. **IP Acquisition**
   - The PVS target device acquires an IP address using the DHCP process. The following steps are involved:
     1. DHCP requests (DHCP Discover) are sent to the DHCP server.
     2. The DHCP server sends a DHCP Offer to the target device with an IP address and other configuration details.
     3. The target device responds with a DHCP Request, accepting the offered IP address.
     4. The DHCP server sends a DHCP ACK to the target device, confirming the IP address assignment.

2. **Bootstrap Download**
   - The target device sends a Bootstrap Request to the PVS Server, requesting the bootstrap file.
   - The PVS Server sends the bootstrap file to the target device using TFTP.
   - The TFTP server name is obtained from the DHCP configuration.
   - The bootstrap file is downloaded to the target device.

3. **PVS Logon Process**
   - After the target device boots up, it sends a PVS logon request.
   - The PVS Server sends a logon acknowledgment to the target device.
   - The target device sends a logon response, including the vDisk name.
   - The PVS Server sends the vDisk data to the target device.

4. **Single Read Mode**
   - The target device requests the IP address and port from the PVS Server.
   - The PVS Server sends the IP address and port information to the target device.
   - The target device communicates with the PVS Server and Multiple I/O services.

5. **BNISTACK / MIO**
   - The BNISTACK driver on the target device takes over.
   - The BNISTACK driver communicates with the PVS Server and Multiple I/O services.
   - All PVS servers in the environment are loaded and configured to support the PVS boot process.

**Summary**

- **IP Acquisition** - The target device acquires an IP address.
- **Bootstrap Download** - The bootstrap file is downloaded.
- **PVS Logon Process** - The target device logs on to the PVS Server.
- **Single Read Mode** - The target device communicates with the PVS Server and Multiple I/O services.

**Load Balancing Algorithms**

- The target device sends a request to the PVS Server, which then sends the vDisk data to the target device.
- The target device communicates with the PVS Server and Multiple I/O services.
- All PVS servers in the environment are loaded and configured to support the PVS boot process.

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**Commitment:**
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