Building Reliable Storage

In order to build a reliable storage for a critical data storage , besides hard disk following components must be choosen carefully –

1) Type of Hard Disk –
   Enterprise hard disk which is designed for 24 X7 usage profile must be used

2) Good Quality Power Supply Unit (SMPS) Parameters while choosing SMPS –
   a) Power wattage requirement – server processors and graphics cards need more power , a minimum 400W power is required for a desktop pc.
   b) Efficiency rating 80 plus which indicates minimum efficiency rating
   c) Active power Factor correction
   d) Modular Design

3) Cooling –
   Due to high RPM (7200 or more) disk becomes very hot , active cooling may help
    To reduce disk temperature.

4) UPS –
   A good Quality UPS is absolutely must to protect PC from all types of electrical Disturbances like spikes / surges.