






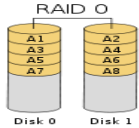







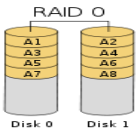







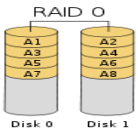


Method	Description
<p><b>Off-site Back Ups</b></p> 	<p>Off-site back ups popped up all over the internet with the advent of broadband (high speed) internet access. With off-site backups, your data is compressed and sent over the internet to another server (off-site). Most reputable companies have redundant Data warehouse sites in different states.</p>
<p><b>Tape Back Ups</b></p> 	<p>Tape back ups have been the “medium of choice” for years. Newer tapes will hold large amounts of data (100's gigabytes &amp; terabytes), they small and affordable enough to buy 3 to 10 tapes to rotate each day.</p>
<p><b>Zip / REV Drives</b></p> 	<p>Zip drives were popular in the past because they were inexpensive and easy to use. Some are still available in capacities of 250 to 750MB. REV drives are now more popular. They are actually low capacity Harddrive (35 to 120GB), fast and easy to handle.</p>
<p><b>Ext. Hard Drive</b></p> 	<p>External hard drives are great because they quickly connect to your computer via a USB cable. They're fast with high data capacities (20 to 250GB). You should use 2 to 5 drives for daily rotations. Most use Laptop HDD's to keep them small and less bulky.</p>
<p><b>Thumb / Flash / Pen - Drive</b></p> 	<p>A USB flash drive consists of a flash memory data storage device integrated with a USB (Universal Serial Bus) interface. USB flash drives are typically removable and rewritable, much smaller than a floppy disk, and most USB flash drives weigh less than an ounce.</p>
<p><b>CD, CDRW</b></p> 	<p>CDRW's are simply CDs that can be written over and over. They're cheap, handy and found in most PCs. A Lot of people use them for backing up pictures and small amopunts of data.</p>
<p><b>DVD, DVD-RW</b></p> 	<p>DVD-RWs are very similar to CD's &amp; CDRW's but hold a lot more data.</p>
<p><b>RAID (0,1,5,10)</b></p> 	<p>This is not actually a “back up” method, but it keeps your computer/server running on larger networks. RAID means "redundant array of inexpensive disks". RAID1 or Mirroring, is the simplest form of RAID technology. Mirroring allows you to have 2 identical hard drives in your computer/server simultaneously. The same data is written to both hard drives. If the 1st drive fails, the system sends a warning but keeps running from the 2nd drive. However, you still need another back up solution so you can take your data offsite.</p>

Method	Reliability	Performance	Capacity
<b>Off-site Back Ups</b> 	Reliability is average. It's only as good as your internet access. If your internet is down, your back up won't run.	Even with high speed internet access, the initial backup of your data could take several hours. Maybe even a couple days. Subsequent backups can be fast or slow depending on the method the software uses.	Depends on your service. You'll probably only want to back up data. <i>You can always create an image of your entire system to an External harddrive and store it in a safe place. (Do monthly &amp; alternate between 2 or 3 Ext HDD).</i>
<b>Tape Back Ups</b> 	This all depends on the price. Higher Quality usually equals Higher Reliability.	Data Transfer rates are pretty good. Ranging from 15 GB per hour on up. Technology just keeps getting better.	Wide range (20GB into the Terabyte range. (1 Terabyte = 1024GB)
<b>Zip / REV Drives</b> 	Very reliable. But don't use them as Hockey pucks.	Average. REV Drives are faster and hold much more data than the Zip Drives.	ZIP: Low, Slow (100 to 750MB) REV: Higher, Fast (35 to 120GB)
<b>Ext. Hard Drive</b> 	Very good.	Extremely fast (480Mbits/s).	Very high 80 to 500GB)
<b>Thumb / Flash / Pen - Drive</b> 	Fairly reliable. But I would advise against using them as you primary Backup device.	operate more reliably due to their lack of moving parts. Flash drives with USB 2.0 support can also operate faster than a CD.	typically range from 64 MB to 128 GB
<b>CD, CDRW</b> 	Average. They're easily scratched and prone to buffer under-runs.	Average	Poor. They only hold about 650 MB
<b>DVD, DVD-RW</b> 	Average. They're easily scratched and prone to buffer under-runs.	Average. The technology is new and they're a little slower than CDRWs.	Good (2 to 17GB) single/double - sided/layered.
<b>RAID (0,1,5,10)</b> 	No need to restore data. (Zero down time)	Fast (instant), no media swapping	Holds large amounts of data

Method	Convenience	Price	More Info
<p><b>Off-site Back Ups</b></p> 	<p>Easy to setup and maintain. Software is provided with the service. No configuring of tapes or harddrives. It's pretty much Automatic. No tapes/disk to take home or store.</p>	<p>Depending on your service, the price can be; free with limits, as low as \$55/year or could add up if you have to pay a monthly fee of \$3 to \$800. But for some it's definitely worth the convenience. <i>Hint: Always! Read the small print.</i></p>	<p>Carbonite.com, Mozy.com &amp; DataPreserve.com are just a few. There are many others, so Shop around or ask me...  <a href="mailto:stacy@adams-itsolutions.com">stacy@adams-itsolutions.com</a>  <b>602-370-0605</b></p>
<p><b>Tape Back Ups</b></p> 	<p>Average. Experience needed installation. Tapes must be changed and rotated daily. It's a simple process once everything is setup and you get into a routine.</p>	<p>Depends on the size of your data / network. The cost for software &amp; hardware ranges from \$150 to \$8000!</p>	<p>Request more Info at:  <a href="mailto:stacy@adams-itsolutions.com">stacy@adams-itsolutions.com</a>  <b>602-370-0605</b></p>
<p><b>Zip / REV Drives</b></p> 	<p>Very good. They are small and easy to use.</p>	<p>Reasonable. Drive &amp; Disk cost is:                      ZIP: \$130 to \$250                      REV: \$350 to \$500</p>	<p>IOMEGA.com                      Request more Info at:  <a href="mailto:stacy@adams-itsolutions.com">stacy@adams-itsolutions.com</a>  <b>602-370-0605</b></p>
<p><b>Ext. Hard Drive</b></p> 	<p>Average. The installation and configuration is usually straight forward. The smaller Drive can fit in your pocket. Can be damaged if dropped.</p>	<p>Reasonable. Each external hard drive will cost \$50 to \$130. You'll need at least two drives to rotate your back ups and take one home.</p>	<p>IOMEGA.com                      Request more Info at:  <a href="mailto:stacy@adams-itsolutions.com">stacy@adams-itsolutions.com</a>  <b>602-370-0605</b></p>
<p><b>Thumb / Flash / Pen - Drive</b></p> 	<p>consists of a small printed circuit board protected inside a plastic, metal, or rubberized case, robust enough for carrying with no additional protection—in a pocket or on a key chain</p>	<p>Prices range from \$15 to \$175 depending on the capacity.</p>	<p>Can be purchased almost anywhere.                       Request more Info at:  <a href="mailto:stacy@adams-itsolutions.com">stacy@adams-itsolutions.com</a>  <b>602-370-0605</b></p>
<p><b>CD, CDRW</b></p> 	<p>Average. They are useful and easy to use. But setting them up for automated back ups can be tricky.</p>	<p>Very low. The average cost is about \$35 for the Drive and re-writeable CDs cost under a dollar.</p>	
<p><b>DVD, DVD-RW</b></p> 	<p>Average. The media comes in several different formats. Not too bad if you understand the technology.</p>	<p>A DVD-RW drive will cost around \$40 to \$150.</p>	
<p><b>RAID (0,1,5,10)</b></p> 	<p>There is nothing to take home. So you still need another back up solution to take data offsite Requires experience to setup. Failed Drive will next to be repaired or replaced.</p>	<p>Can be Expensive depending on Capacity and type of RAID (0, 1, 5, 10, etc)</p>	<p>Request more Info on other RAID methods at:  <a href="mailto:stacy@adams-itsolutions.com">stacy@adams-itsolutions.com</a>  <b>602-370-0605</b></p>