



Library Recovery Center

Ever since libraries began storing bibliographic information on magnetic disks back in the 70's, the challenge of creating useful back-ups and preparing for a disaster recovery event has been a struggle for every library entering the electronic age. Some of the questions libraries are constantly asking themselves are:

- How do I ensure that the data residing on my multiple servers is backed up on a timely schedule?
- What is the easiest and most accurate way to provide redundant off-site storage; tape, disk, cloud?
- Can I easily restore a mistakenly deleted file or email?
- Can I schedule incremental backups to run in the background throughout the day?
- How do I implement a robust disaster recovery plan?

The answer to these questions is NLE's **Library Recovery Center**. Our offering is the easiest and most affordable way to provide your library with speedy data, application and server restoration as well as the best way to rapidly resume operations in case of a server crash or a disaster.

NLE offers a comprehensive Backup and Disaster Recovery solution specifically tailored for Libraries that provides:

Very frequent backups

Seamless off-site data storage

Multiple restore points

Standby server capabilities

Advanced restoration options

(file and folder-level restorations with Exchange message and mailbox recovery)

Bare metal restorations to dissimilar hardware



FEATURES

Backup and Recovery

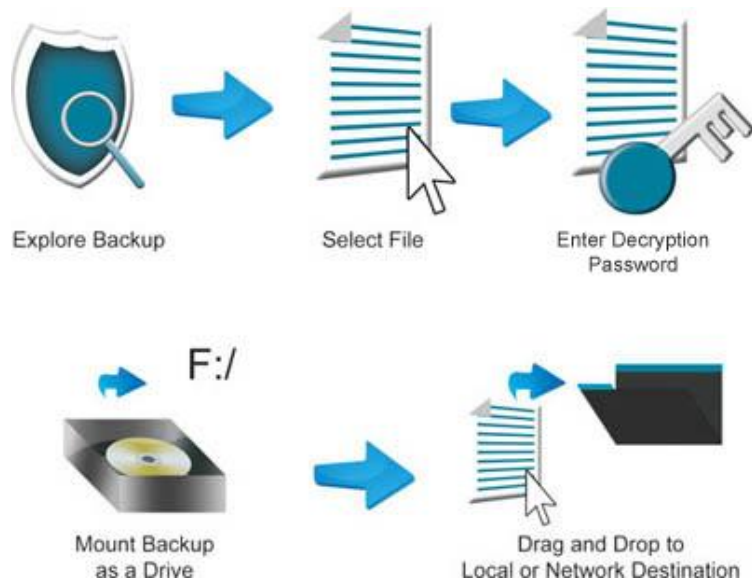


What would a backup and recovery solution be without solid backups? NLE's disk-based NAS allows for quick and easy point-in-time snapshots, which take just minutes and won't impact your environment. Only the changes to your data are backed up. Restoration is just as easy, mount your backup file as a drive on the NAS and copy what you need locally or to the network.

After the initial base backup, all future backups are incrementals. The NLE solution backups are not by file, but by the block level. This is below the file and folder level, and is more efficient. An incremental chain is created and only the changes are backed up, reducing backup times.

Application Recovery

Backup and restore SQL, ILS, Active Directory and Sharepoint databases without additional agents. Just connect to one of your point-in-time snapshots, find your database and transaction log files, and restore using drag and drop functionality.



Standby Server



With NLE's Instant Virtualization capability, in less than 30 minutes, the NAS device can be configured to function as a Standby server. This eliminates costly downtime due to server hardware failures. NLE virtualizes servers directly from the backup image so there is no need to convert backup images to virtual hard disks. Once the server is virtualized it retains all of the system settings and application state so it is completely transparent to your end clients. The backups continue to occur after a server is virtualized so when it comes time to restore back to physical hardware you have the latest changes to your end clients data.

Disaster Recovery Testing

NLE's virtualization allows disaster recovery testing by verifying your backup images. There are 3 modes, Real, Test, and Test with Networking. We use the Testing modes to verify your images, and use Real mode in the event of a disaster. Your system can be restored in minutes, not days. This provides built-in redundancy and allows shorter RTO's (recovery time objectives).



Mailbox and Message Level Recovery



Email has become the lifeblood of the library world. With NLE's solution you can perform mailbox & message restorations faster than ever. With short recovery times and frequent recovery points, setbacks are fewer and staff are able to stay connected and productive, whether you're facing the failure of an Exchange Server or just a mistakenly deleted email.

Exchange Migration

Perform Exchange Server migrations with the Exchange Recovery Tools by restoring all of your Exchange Mailboxes to the new Mail server without ever bringing the old mail server online. Accomplish all this without time intensive backups. The NLE solution can extract this information directly from the Exchange Message Store.



Bare Metal Restore



Bare Metal Restore gives you the ability to restore to a virtual server or dissimilar hardware configuration for ease of recovery after a disaster; e.g. hardware failure. This gives you flexibility for restorations and doesn't require the cost and effort of keeping a standby server ready at all times.

Recovery Process

NLE's recovery process is quite simple. When it is time to restore your virtualized server on the NAS device back to physical hardware a boot CD is inserted into the new physical hardware. The new server maps to the NAS device and begins to pull the latest backup image. Once the image is copied to the server NLE manipulates the hardware abstraction layer and inserts the necessary device drivers for the new hardware. Once the server is completely restored, backups continue to take place on their scheduled interval.



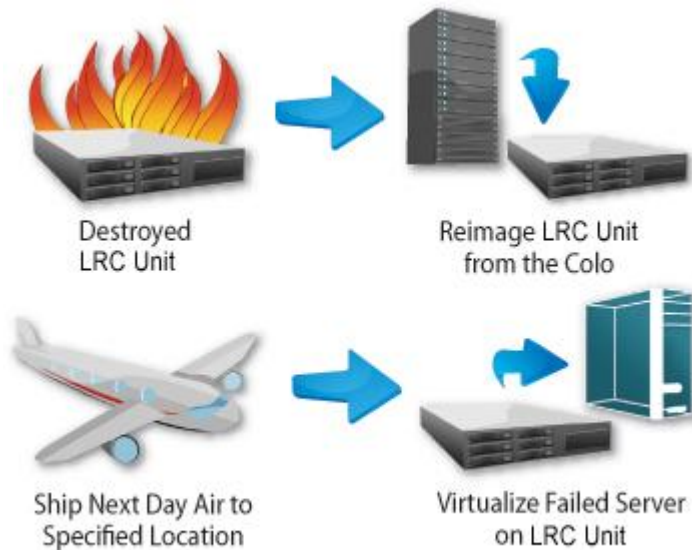
Replication Options



NLE also provides features to synchronize your backups to a local or network destination. This copies your entire backup chain to a redundant location for archiving and disaster recovery. Synchronizations can be scheduled or run on demand. Administrators receive alerts on failure. Images can also be retrieved and restored back to the NLE backup NAS if needed from the archived file.

Offsite Storage

NLE also offers offsite storage that provides the option of synchronizing your backups offsite to our secure co-location facilities, all through an industry standard 256-bit encrypted tunnel. Be secure in the knowledge your backups have not been compromised during transfer. If your library's onsite data is affected by a disaster or becomes corrupted in any way, you're protected. We will ship you a replacement backup NAS via next day air that contains a warm copy of your backup pre-loaded. You could even virtualize your servers on it until replacement hardware arrives.



Conclusion

NLE has a long history of providing leading edge technology solutions to libraries, and our **Library Recovery Center** solution is another of our proven offerings tailored specifically to meet the challenges in libraries. Regardless of the size and type of library in question, NLE has a Backup and Disaster Recovery solution to fit the needs of your institution. From a small 400GB back-up solution to a multiple TB offering, NLE can customize a Backup and Disaster Recovery plan that will provide your library with the peace of mind knowing you have taken the necessary steps to protect yourself should your live data become compromised in any way. At NLE we are your trusted technology partner.

Please contact us today for a customized **Library Recovery Center** quote for your library.