Druva inSync – Reports

 | September

The document gives an overview of Druva inSync and discusses the various reporting options available.

Druva inSync – Overview

Druva inSync is an enterprise class product for secure and continuous backup of critical PC data to a central enterprise server over LAN or WAN.

Druva inSync is the ideal solution for increasing personal data availability for improved business continuity and recovery. The light weight inSync client non-intrusively and non-disruptively monitors changes to critical data and *securely* syncs the delta changes to a central enterprise server

Potent features like **Application-Aware Deduplication** and the **'Blackbird' Storage Engine** offer incredible scalability for backup storage, guarantee 100% duplicate elimination while saving over 90% backup time, make the best use of bandwidth and storage and require zero maintenance. Backups are completely non-intrusive and near-invisible to the user.

Powerful features like the *Bandwidth Scheduler* and *Octopus WAN Optimization Engine* make it ideal for traveling enterprise users who don't have secure and dedicated connectivity to office servers.

Good reporting adds to the product experience. This document discusses the advance reporting features in Druva inSync which make the backup process more reliable. The inSync administrator can use the **Web 2.0 based interactive inSync server management console** to view live server health, and check vital statistics for each user and configured storage.

The inSync server offers ***six* different comprehensive reports** which can be scheduled for delivery via email. These reports help the administrator take better control of the backup installation.

Druva inSync - Reporting

The Web 2.0 based inSync server management console supports –

1. Dashboard showcasing Live Statistics, Historical Data and Server Diagnostics
2. Configuration options to manage Storage, User Profiles and Users
3. Instant Email Alert Notifications
4. Email Reports

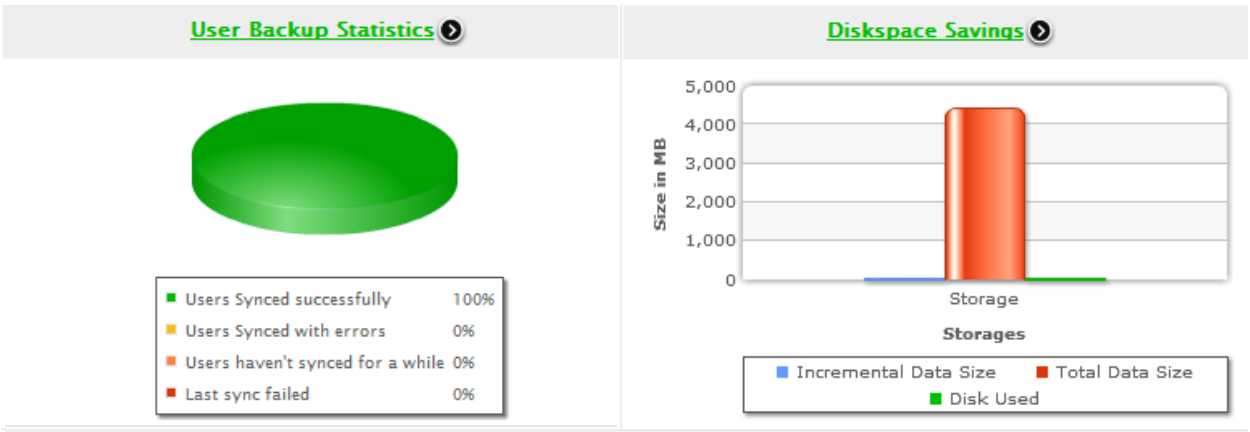
Dashboard

The dashboard provides a quick view of the status of different inSync entities like storage, users, server, and highlights the problems/failures that need the inSync administrator's attention.

The different statistics on the dashboard can help the inSync administrator easily monitor the inSync servers and decide backup strategies for the organization.

Live Backup and Storage Statistics

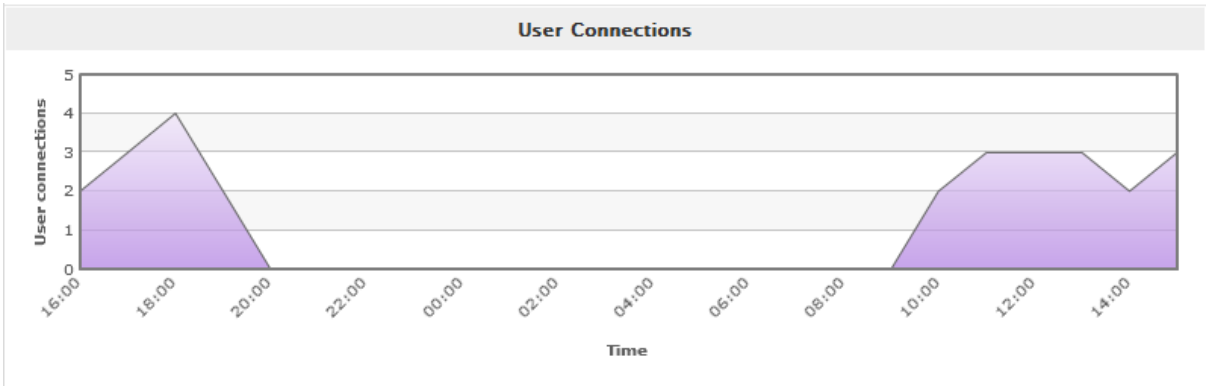
The web 2.0 based interactive dashboard offers live statistics for server health, users' sync and storage. These statistics show point-in-time state of the backup. User connections, overall summary of servers, users, storage, tasks, and alerts, status of sync by various users and disk space savings are available to enable interactive administration.

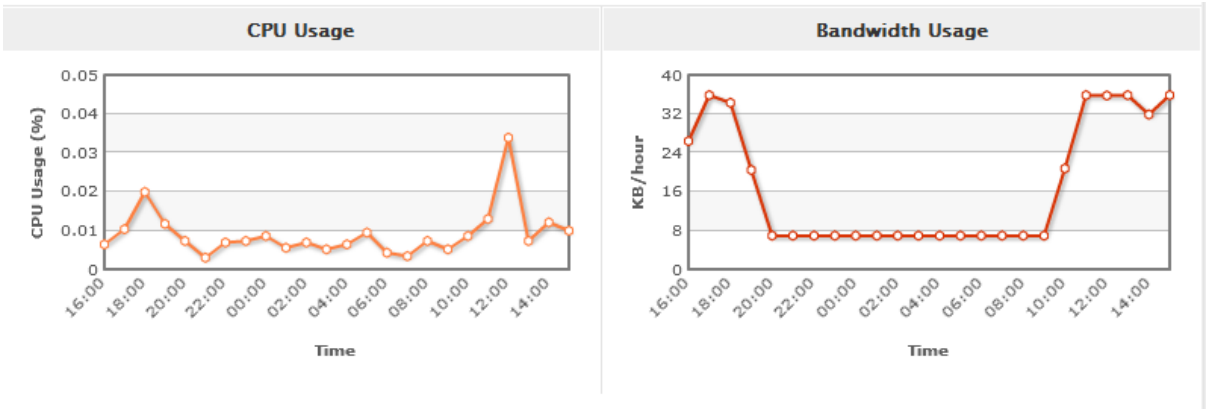


User and Server Activity over the last 24 hours

The inSync administrator can view the number of active connections changed during the day which indicates the inSync usage pattern. This is useful for the administrator to identify the time at which users mostly sync their data and when the server load is low. This also allows the inSync administrator to plan compaction schedules accordingly.

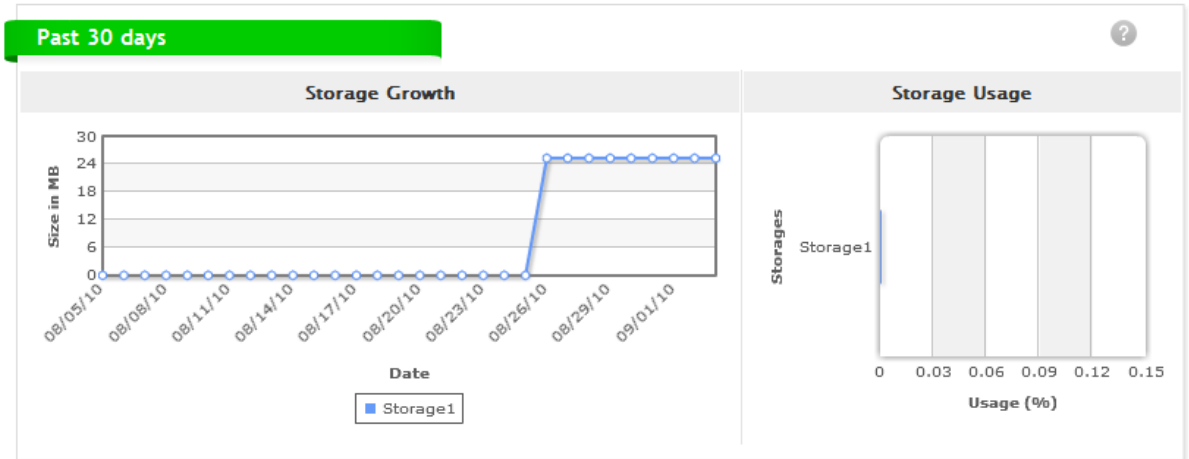
The CPU and bandwidth storage indicate the CPU and network utilization of the inSync server.





Historical Storage Growth Statistics (Past 1 month)

The console allows the inSync administrator to view storage developments over the last 30 days. The inSync administrator can also view the storage space used on a given date alongwith the percentage of total storage space used as of now, enabling a hands-on approach to administration.



Storage and User Management

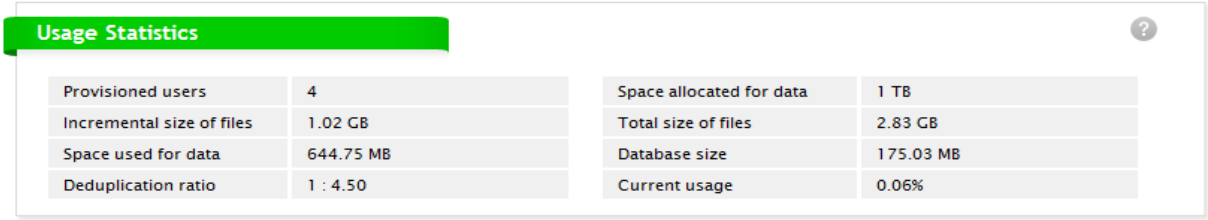
Web console enables the inSync administrator to determine storage capacity, create storage, create new user profiles, manage restore points, etc., in addition to viewing statistical information about existing storage and users.

Managing Storage

The inSync Server uses an Encrypted Single Instance Store to maintain backup data. The inSync administrator can use this feature to determine the storage capacity of the inSync server, create new storage, and specify how long the restore points should be stored.

Using Manage Storage the inSync administrator can view vital statistics like –

a) Disk configuration
b) Usage Statistics
c) Compaction



Disk configuration displays the quick summary of storage configured for backup.

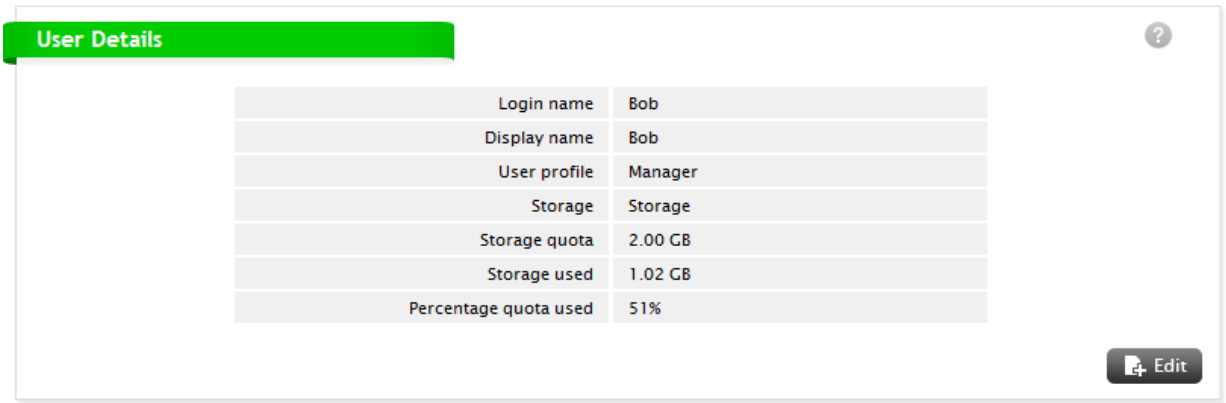
Compaction attempts to reclaim the space unallocated by removing restore points and users. Compaction schedule can be set while creating storage. It can also be edited later.

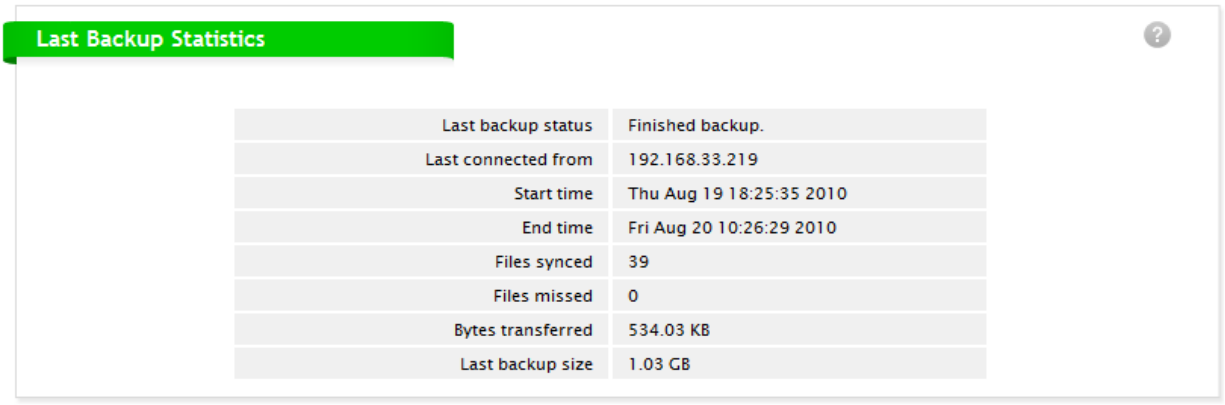
These statistics are especially useful for the encrypted SIS store, as they show data deduplication action. (The difference between “size of files” and “used disk space” gives the amount of data removed as duplicate)

Managing Users and User Profiles

The user statistics prove very important to the admin especially for remote users. The console displays vital statistics for each configured user like –

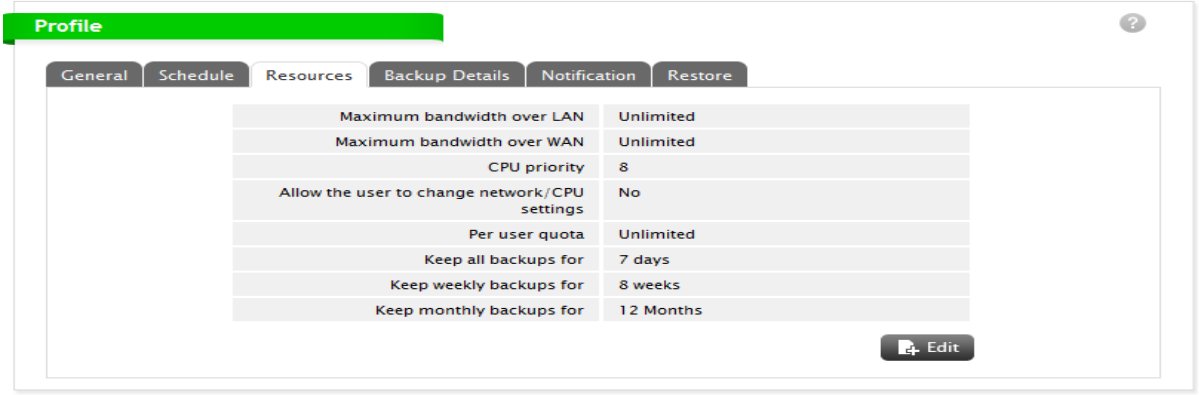
a) Last backup status
b) Last backup size
c) Bytes transferred
d) Files synced / missed





User Profiles allow the inSync administrator to view, add and edit:

a) General information about the user profile and creating new user profiles
b) Backup schedules
c) Notification schedules
d) Resources
e) Backup details and,
f) Restore options



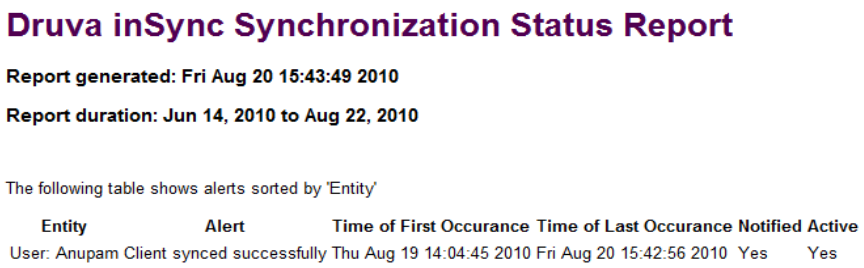
Alert Email Notifications

Each time a notification trigger is hit or an error is generated, the server generates an alert and immediately sends the administrator a short email describing the same. The administrator can also use the "Active Alerts" or "History of Alerts" report (described in next section) to get a cumulative update on alerts.

The following alerts are used by the server:

1. User hasn't synced for a while
2. Client sync operation appears to have stalled
3. Storage usage exceeds set threshold
4. User storage usage approaching or exceeded set threshold
5. Client application reported error
6. Client synced successfully
7. Client sync failed
8. Storage compaction completed
9. Restore request done

The screenshot below shows alert email sent to the administrator.



Druva inSync Synchronization Status Report

Report generated: Fri Aug 20 15:43:49 2010

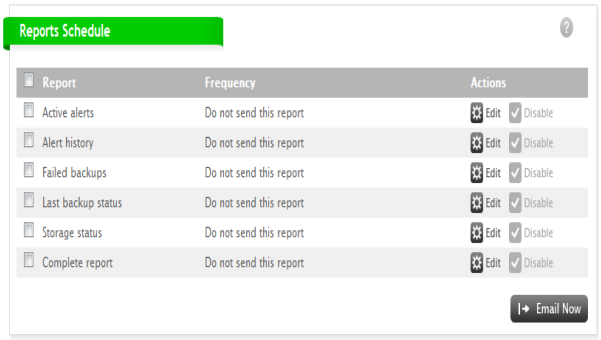
Report duration: Jun 14, 2010 to Aug 22, 2010

The following table shows alerts sorted by 'Entity'

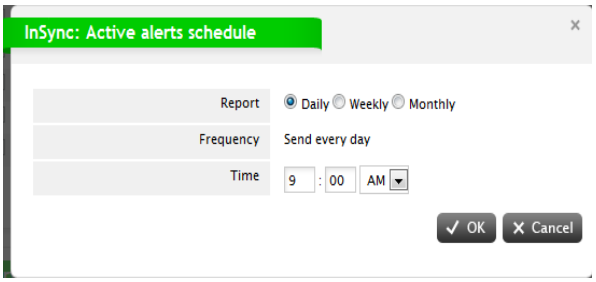
Entity	Alert	Time of First Occurance	Time of Last Occurance	Notified	Active
User: Anupam Client	synced successfully	Thu Aug 19 14:04:45 2010	Fri Aug 20 15:42:56 2010	Yes	Yes

Email Reports

The server sends out comprehensive backup reports as HTML attachments to the administrator's email id. Following reports are supported –



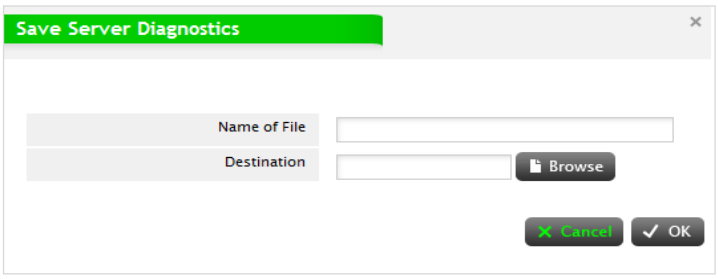
1. **Active Alerts** – List of critical alerts currently active in the system.
2. **Alert History** – List of critical alerts and notifications sorted by time of occurrence.
3. **Failed Backups** – List of users with failed backups sorted by user name.
4. **Last backup status** – Last backup and disk quota status for all users sorted by user name.
5. **Storage status** – Vital statistics (percentage full, total size, users allocated etc.) for all storage configured.
6. **Complete Report** – Full report with list of user backup status (sorted by user name), storage status and history of alerts.



The admin can independently schedule the reports. The screenshot above shows the report configuration dialog for scheduling Active alerts.

Server Diagnostics

The Server diagnostics create a comprehensive log report on storages, users, server, server configurations, and database. Generate comprehensive reports on the current status for all essential system services like inSync Server service, inSync web-restore server.



Designed to provide early warning of server health conditions, server diagnostics help the inSync administrator in troubleshooting potential problems before they escalate.

Summary

This document demonstrates the reporting capabilities of Druva inSync server and how they help the administrator manage large enterprise installations. The administrator can view live server statistics, receive instant alert notifications and schedule comprehensive reports. This helps the administrator troubleshoot, manage configuration and fine-tune system better.

About Druva

Druva provides premium enterprise class solutions for data protection and disaster recovery. The products make an intelligent use of Continuous Data Protection and Data deduplication technologies to bring a paradigm shift in an enterprise's approach towards data protection.

With key technological advancements, the data protection solutions deliver up to 90% better bandwidth and storage utilization compared to the traditional methods. This ensures faster and smoother backups especially for remote laptops, mobile users and distant servers.

For more information please refer to the website at - www.Druva.com