DSAFE
For Optimal Backups and Reliable Restores

Contents

Introduction

The best way to protect data from ransomware/virus attacks, disk failures, accidental/malicious deletion, physical damage etc is by way of regular backup.

There are many options available to maintain regular backups, but DSafe is the preferred enterprise solution when it comes to Windows Data Backups due to the features mentioned below.

Transfer Files without attracting Viruses / Ransomware

If DSafe guidelines are followed you will be able to protect your backup data from Ransomware / Virus attacks. A sizeable portion of our customers are professionals with 5 to 30 machines. They invariably do not have an inhouse IT person overseeing the machine security. Pen drives/Data downloads given by customers are frequently exchanged making it impossible to avoid virus attacks. Such offices regularly fall prey to Virus/Ransomware attacks. Until date all my customers who follow our recommendations have managed to restore their data even though their entire network has got infected.

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Build Your very own Private Cloud. No compulsion to store data on Public Storage

DSafe is built on technologies that permit you to backup machines remotely and securely. If you prefer to maintain the Privacy of your data on your own physical storage, Centrally or at Diverse Locations, DSafe allows you to do so without having to invest in expensive infrastructure.

You can encapsulate machines for backup from different Branches/On Site Teams/WFH laptops, under single DSafe Server's Control. DSafe is an application, customer's data is never stored on our Storage.

Diversified Data Storage

Backup to Microsoft's Onedrive Cloud Space directly or use it for Disaster Recovery.

You can decide where your data will reside: On Premises or On Cloud.

(Windows Machine / NAS Device / FTPS / Onedrive Cloud / Sharepoint Cloud / Ext. HDD)

WFH Users Can Backup Data from Their Respective Homes.

Laptop Users Can Alternate Between WFH (WAN) And Office (LAN). DSafe Will Automatically and Intelligently Switch Between LAN And WAN.

Sales Teams Can Backup Data Daily Even Though They May Visit the Office Occasionally Or Intermittently Due To Constant Travel Or Offsite Work Environments.

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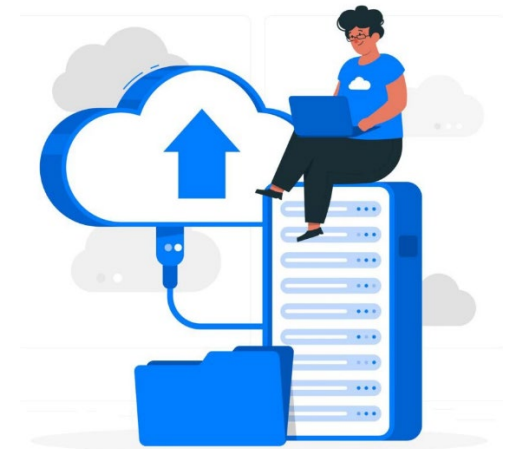
Centrally Controlled

Once DSafe is installed on the Client machines you have total control of the backups/Logs/Schedule etc from the DSafe Server machine.

Compressed Backup

The backups are compressed to save disk space, encrypt data and reduce network usage.

Compatibility

DSafe is a Windows based software, compatible with Win7 (Desktops Series), Server 2008 R2 (Server Series) or later.
Windows XP / Windows Server 2003 need a different scaled down version.

Data Restore

The most critical reason for backup is to be able to Restore whenever necessary. You can restore all files or selectively restore one or more files or folders. You can restore from the regular destination or from the Disaster recovery area with the same ease. Local restores are extremely quick even if you are restoring very old data.

Reporting And Email Alerts

The administrators can opt to receive Emails of how the backups are performing on a daily basis. Relevant logs can be received by the Branch IT persons too. Within DSafe Server there are multiple options to understand the backups performance.
Various trends in Data can be analysed based on the Log reports

Missing Files Alert

Accidental deletion or accidental moving of files is an error that keeps occurring with one and all. DSafe has a facility that automatically highlights these files names along with their folder, size & time as missing files. The user gets notified of this loss at the very next backup. You can restore your file even if you notice accidental deletion after several days. This also helps when a dissatisfied employee deliberately deletes files before quitting his job

Lite Program

DSafe is a Lightweight application. It uses minimum system resources (RAM / CPU / Network) when taking backups and almost nothing otherwise. This allows users to carry out their routine work smoothly. Daily backups will not hamper their performance.

A major cause of concern whenever a software is installed is the resources it will consume on the Server and Client machines. This comes to light only after a few weeks of implementation. DSafe has been built by a highly experienced core team. It has been tried and tested, eradicating all the bottlenecks, resulting in a smooth flow even after years of continuous execution.

Utilize your existing Assets

When it comes to data backup of multiple computers across various locations DSafe easily adapts to your company's infrastructure layout, providing you centralised management and allowing you to smartly Diversify Data Storage.

No more Network Jams

If several machines, say 400, have been selected to backup daily to a particular Destination, you would expect a load on the Network causing all other office work to come to a standstill. With DSafe you need not worry as it never causes a Network Jam due to its unique queuing system.

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Open File Backup

DSafe prepares a temporary Snapshot by using Microsoft's Volume Shadow Copy (VSS) while compressing files on Local Drives. This process allows DSafe to take consistent backups of files even if they are Open & being used actively. Applications flush their data when VSS is triggered to maintain consistency. If any application does not follow this protocol, then the backup may not be consistent.

Maintains Folder Structure

DSafe backs up data with the folder information. When you restore data, it will get restored into their respective folders. Even if you are resorting data to a new or formatted hard drive the similar layout will be maintained.

What Files Can DSafe Backup

Emails, Document Files, Spreadsheets, Pictures (products / personal), Software Program files, Music files, Data files, Drawings, Presentation files, Text files, etc. You can selectively specify wildcards (*.doc, *.cdr, etc). You can also selectively specify folders. You may also specify to backup specific wildcards/all files from a certain folder. DSafe allows almost all the permutations & combinations required. Similar to its ability to include, you can also exclude unwanted files / file types.

Delta Incremental

DSafe uses Delta technology to backup only edited portions within a file. DSafe5 blends the advantages of Differential backup and Incremental backup by using an indigenous logic to create a delta structure, allowing data Restoration quickly and accurately.

Deduplication Of Files

This is done to save destination space and network utilization. Files with the same content have just one backup copy. A significant percentage of files are often skipped, due to deduplication.

Refresh Of Backups Not Required.

First time backups are time consuming as compared with Daily Incremental Backups. With DSafe you do not have to worry that this situation will come up again.
Usually Refresh of backups is required to speed up restores or to make restores reliable. DSafe has a unique method of managing the daily incremental backups with a combination of differential. You have the benefits of quick and reliable restores without the need to refresh the full backup. At the same time Destination Machines do not prepare Synthetic Full backups so not load on the destination either.

Quickly Deployable

If you are using Microsoft's Active Directory or similar product then it is possible to deploy on 1000 machines, with intricately planned data to be backed up, within few hours.
Using templates, you can replicate a backup profile to be used for other machines within the network, thus saving time and maintaining accuracy. Even without AD etc the installation is quick and easy, completed with just a click. Grouping of Machines help with distributed / focused management when it comes to large installations.

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Overview

Deployment Strategies

DSafe being a versatile backup application can be deployed to suit your specific requirement.

a) **Companies with multiple locations** spreading across states/nations and wanting backups to reside at their **respective locations** at the same time having centralised control at HO. Additionally, Disaster Recovery in Cloud.

b) **Companies with multiple locations** spreading across states/nations and wanting **centralised backups** and control. Additionally, Disaster Recovery in Cloud or NAS at separate Location.

c) Companies with Staff **WFH or Roaming Sales Team** wanting to backup to HO.

d) Companies with Staff WFH or Roaming Sales Team wanting to **backup Directly to Cloud**.

e) **Single Server containing all the data to be backed** up locally as well as Disaster Recovery on Cloud / NAS as separate location.

f) **Single Location with multiple computers** to be backed up Locally as well as Disaster Recovery on Cloud.

All above and many more combinations are possible with DSafe.

DSafe comes in a Single Edition containing all the features bundled together.

As per your deployment requirements you will need to decide your DSafeServer Machine. For points (a) to (d) you need the DSafeServer to have a Public Static IP. Machine with Public Static IP will require that Ports 22010 to 22200 be open for TCP. All communication to these ports is under SSL (TLS 1.3). In case another application in the same machine is using these ports the DSafe Team should be requested to change to a

different range of ports to ensure security. As far as possible keep a separate machine unshared for DSafeServer/Destination to ensure protection from Ransomware/virus attacks. DSafe takes care of preparing unique SSL Certificates that are essential part of the communication.

Destinations

Local Destinations

    I.   Local Drive

    II.   Remote Mapped Drive of a NAS Shared only on this one machine

Local Shared NAS

    I.   Not recommended, kept for Legacy.

Cloud FTP/FTPS

    I.   FTPS provided by ISP

    II.   NAS with FTP / FTPS activated

Cloud Onedrive

    I.   Cloud storage of Onedrive

Cloud Sharepoint

    I.   Cloud storage of Sharepoint.

Understanding the Backup Process

DSafe compresses data on the Client machine itself, therefore it is preferred to have around 60GB Free working space during the initial stages of backups. Once full backups are done DSafe will not require as much working space except if there are large PST files which have undergone major updates. As soon as the Compressed file is moved to the destination the occupied space is released.

By default, DSafe takes a Full Backup, only at the start, it will not require to do a full backup, again unless forced.

During the compression stage the user must keep his machine On. Laptop Lid should not be shut. DSafe takes care that once compression starts the machine will not automatically go into sleep mode. During the Transfer process it is okay to put the machine off. Transfer process resumes when the machine comes On, automatically.

DSafe does an incremental delta backup. Only the changes are picked up the following day. This is achieved by storing the signatures of the files at the source for comparison during the next backup. This process works with a optimal combination of Incremental and Differential backups to ensure efficient Restores.

You have the option of Encrypting the compressed file at the level of the user. Critical user's data will not be readable even to the IT persons who are in charge of DSafe. By default, compressed files are not encrypted.

Understanding DSafe Backup Files

DSafe backup Files are always Stored in a Folder called DSafeBack within it will be the Machine Name Folder preceded with a Machine ID.

Finally, will be the Backup Profile Name preceded with the Backup Profile ID.

e.g.: C:\DSafeBack\[10001-AAF]\{101-C_AAF1}

Each Backup File will have a Structure like similar to this DSafe10001101_000100001FCr.DSB

The word DSafe is followed with the Machine ID and the Backup Profile ID

After the _ comes the Set Number followed by the increment number.

The F indicates Full Backup, M for Monthly, W for Weekly and D for Daily.

The files Stored inside the DSB are similar to the Zip Format and can be uncompressed by any common Unzipping Tool (unless Password

Protected). Though unzipping these files will not help much as the file names are coded and apart from the Fist Backup the rest may be just

delta parts of a file. In short, data restore needs to be done through DSafe Restore only. Kindly note that Restore is possible even with the Trial

Option and you need not be in Subscription to Restore your own data.

Files on the Cloud are compressed one file at a time and are stored within a Folder with name similar to the Local Backup File name.
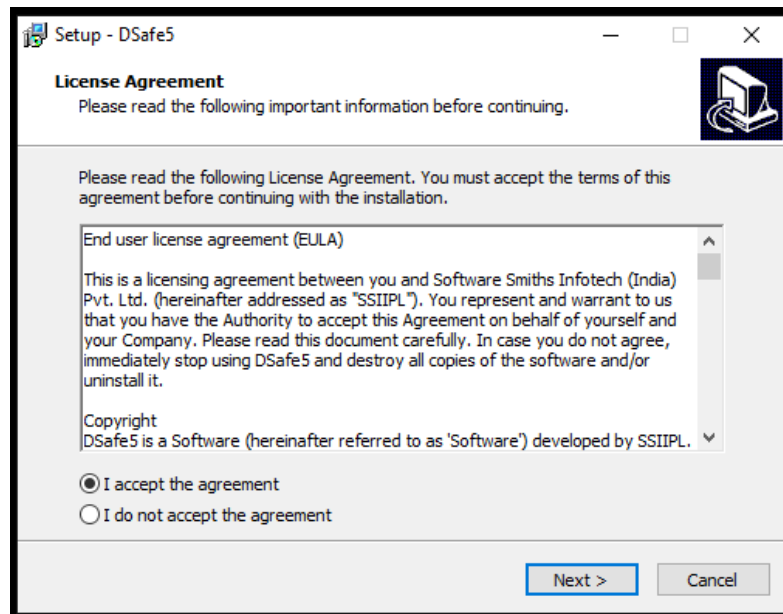
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Understanding the Communications and File Transfers

Communication between two DSafe machines is always Secure. Communication with other Servers will depend upon the Servers you choose, for example, Communication with Microsoft's Onedrive uses Secured Layer, whereas a NAS box has the option of simple SMB transfer, FTP transfer or FTPS transfer. Amongst these only the FTPS is secured. DSafe has warnings in place to keep you informed of Reduced Security levels.

Even if multiple machines (say 500) start backup at the same time the network will not get jammed during File Transfers. This is because DSafe follows the Queue system for copy of files to Local Destinations.

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DSafe Setup

1) Download DSafeServerSetup.exe from here https://www.dsafe.in/download/DSafeServerSetup.exe
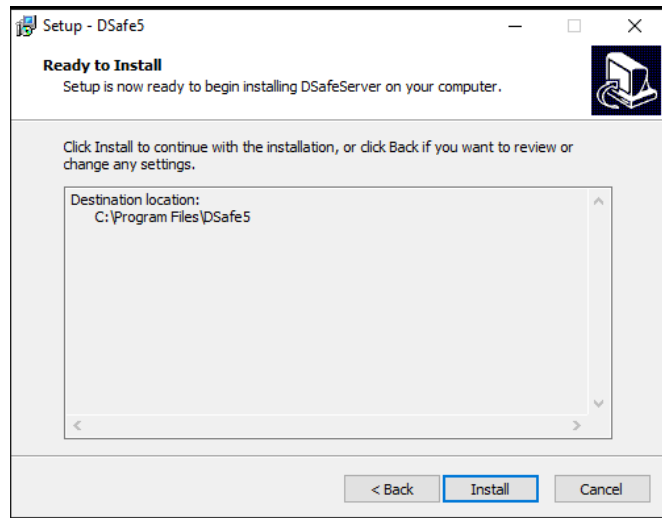
2) Execute this Setup on the machine designated for DSafeServer.

3) Proceed with the default responses, if agreeable.

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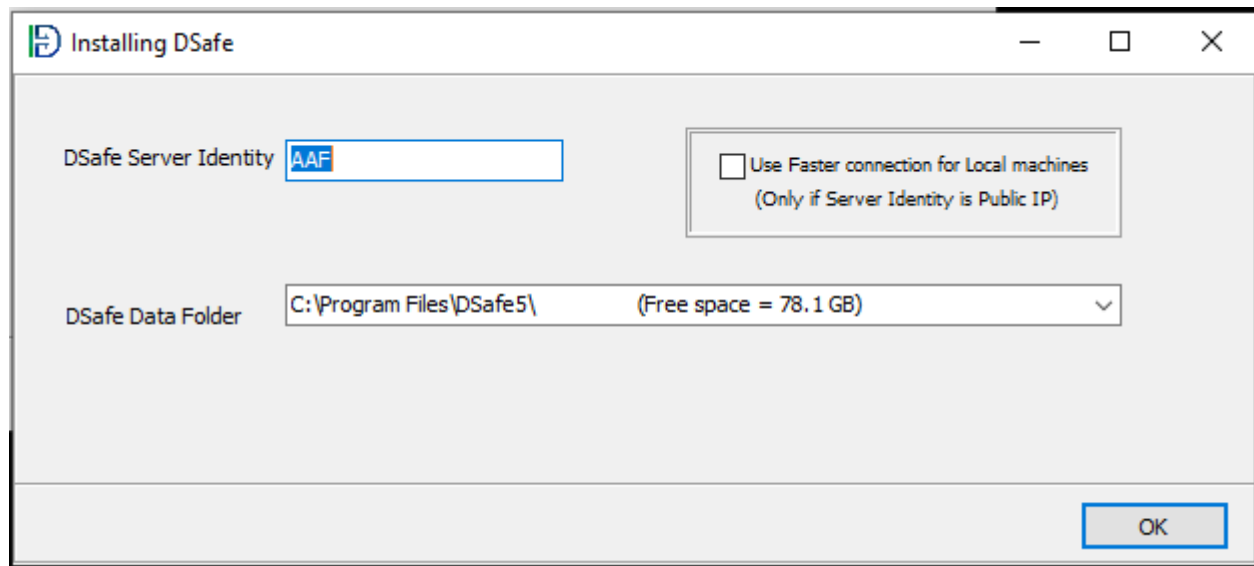
4) Best to keep this folder unchanged
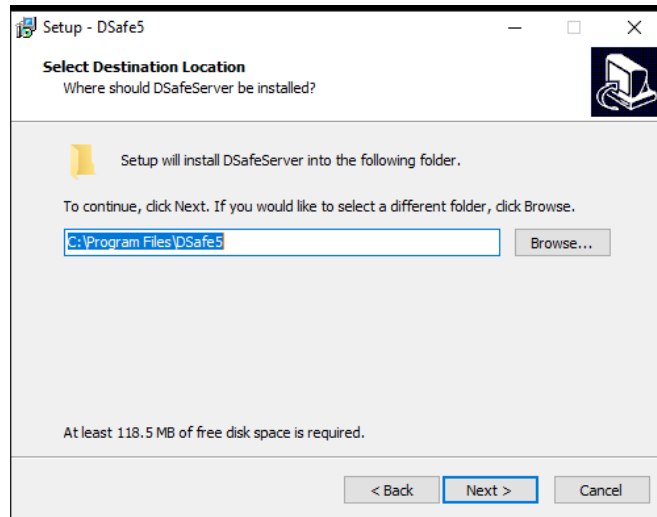
5) For LAN Installation you can change Machine name to the Local IP of the machine, just in case some End Points cannot connect using the name.

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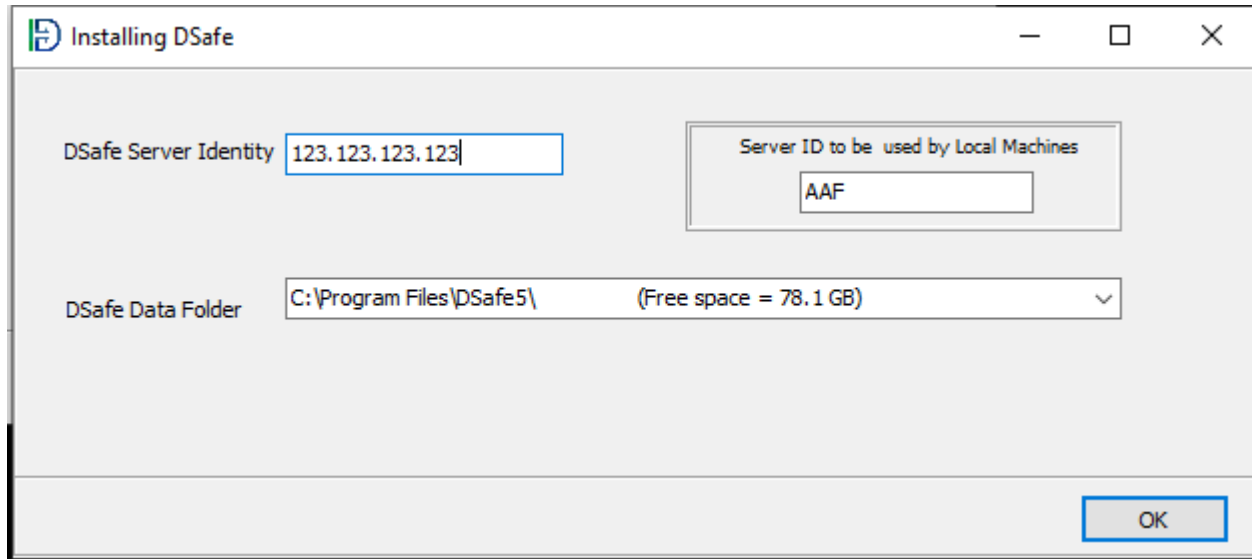

6) For WAN installation:

    a. **DSafe Server Identity:** Enter the Public Static IP.

b. **Use Faster connection for Local Machines:** Enter the LAN IP or Machine Name.

Installing DSafe

DSafe Server Identity [123.123.123.123]

Server ID to be used by Local Machines

[AAF]

DSafe Data Folder C:\Program Files\DSafe5\   (Free space = 78.1 GB)

OK

7) For the password, enter 'DSafe'.
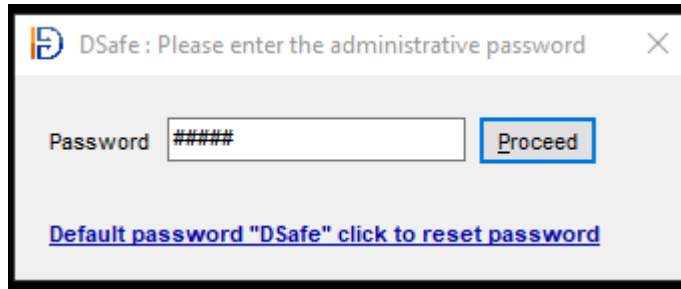
8) If destination machine is different from the DSafeServer machine

   a. You will find the DsafeClientSetup.exe in 'C:\Program Files\DSafe\SetupFiles\'.

   b. You will need to Run this Setup on the machine designated as Destination.

9) Select *Configuration | Destination |* (type of destination as desired).
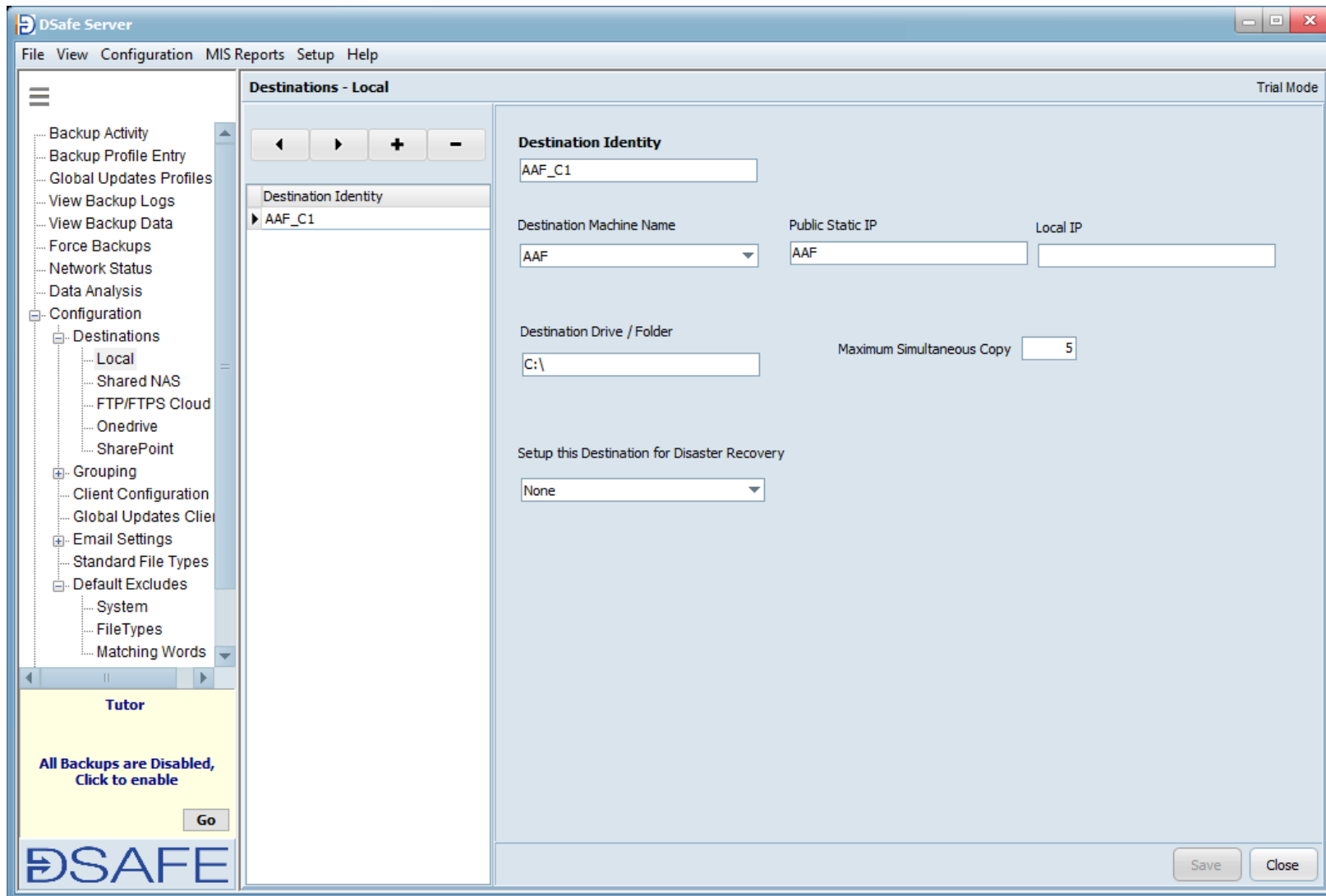
10) Prepare the two Templates as defined in *Backup Profiles*.

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11) Execute C:\Program Files\DSafe\SetupFiles\DsafeClientSetup.exe on all the client machines.

12) On the LHS you will find Tutor saying 'All backups are Disabled, Click, here, to enable.

13) Once enabled backups will start.

Backup Profiles

Backup profiles are automatically generated for each drive of the machines on which you have installed DSafe.

When DSafeServer Setup is done, by default, *.* is selected for backup. You can fine tune this to suit your requirements. The better you fine tune, the better the backup performance, with respect to size, speed and virus immunity. Once you have selected what you want to backup, you can define that Backup Profile as a Template, so that when new machines are added, their Backups Profiles will replicate the Template. Two templates one for *C* drive and *Other Drives* need to be defined. This is to be selected from *Setup | Server Setup.*

*Kindly note: Even if you select *.* not all data will be backed up. This is due to Default Excludes.*

1) You can click '✚' or '➖' to add/delete Backup Profiles.

2) For making changes just select the required Backup Profile and make the changes.

3) If Source Machine Name / Drive are Blank while making a new entry, select from Drop Down.

4) Backup Profile Name: This can be left Blank as it will get appropriate name during Save.

5) Destination: This needs to have been created before this entry. Here just select the desired destination.

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Backup Profile Entry   Trial Mode

☰

⏮ ◀ ▶ ⏭ ➕ ➖ (3)

- AAF
  - C_AAF1
- RF
  - C_RF1
  - D_RF1

Source Machine Name AAF   Drive C:\

Backup Profile Name C_AAF1   **Profile Disabled** ☐

Destination AAF_C1   Machine ID   10001

Include Folder/Files   •••

▶ C:*.doc?
C:*.xls?
C:*.txt
C:*.ppt?
C:*.pps?

Default Includes

Exclude Folder/Files   •••

▶

You need to check 'Default Excludes' to know which files will be excluded from   _Default Excludes_ ?

Type of Backup   Incremental Delta ?   Retain Versions (Minimum)   30 Days ?

Scheduling

Scheduled ▼   Start From 19/06/2022 ?

Backup time 10:00 10:00 am   Try upto 18:00 06:00 pm   Repeat Backups

Every Day ✔   Mon ✔   Tue ✔   Wed ✔   Thu ✔   Fri ✔   Sat ✔   Sun ✔   Once a Day ▼

Search 🔍▾   Advanced   ✗↲   Save   Close

6) Include Folder/Files: You can correctly type out the details here or else select the Three Dots button and select the required files. To Delete, use Right Click and select the desired option.

7) Exclude Folder/Files: This is used to Exclude undesired files / Folders from being backed up. Kindly note there are Several files excluded from backups already, due to Default Excludes. In case you want to overrule the Default Excludes just for this Backup Profile, then click the 'Default Excludes' link.

8) [Active PST]: In case you want to backup only the PST files configured in MS Outlook then you need to activate this option from the *Configuration | Standard File Types*.
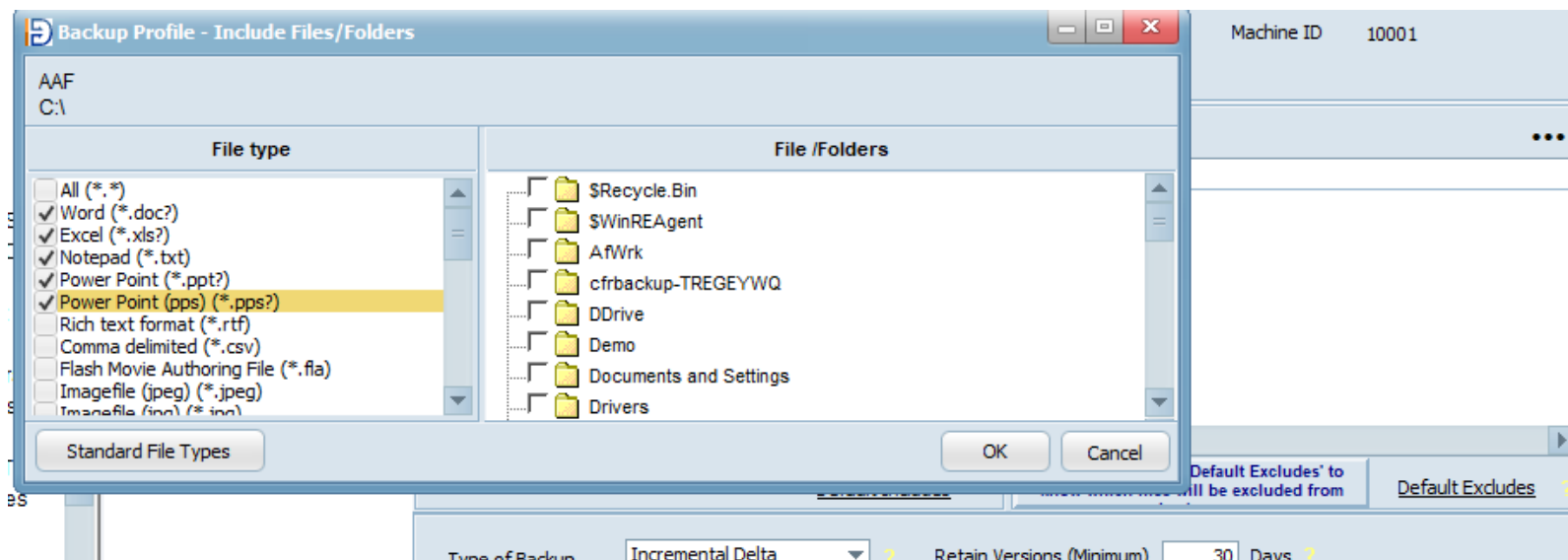
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Source Machine Name **AAF** Drive **C**

Backup Profile Name **C_AAF1**

Destination **AAF_C1**

Include Folder/Files •••

> C:*.doc?
C:*.xls?
C:*.txt
C:*.ppt?
C:*.pps?

Default Includes

Exclude Folder/File

>

You need to chec
know which files

Type of Backup **Incremental Delta** ? Retain Versions (Minimum)

9) Type of Backup: If you want to take Full Backups daily then change the option to Full Backup, else leave it at incremental.

10) Retain Version: There are times when you do not want the latest backup, you may want to roll back in time. This may be due to several reasons like correct file being accidentally overwritten, Ransomware attack etc.

11) Scheduling: This option is mostly at Scheduled. In rare cases you may want to do a backup just once or you may want to backup on rare occasions, then you have the other options.

12) Start From: In case you want few machines to start their backup after a few days you can manage using this option.

13) Backup Time and Try up to: This is the period wherein your backups will be attempted. If the backup has begun it will continue beyond the *Try up to* time. For Large First-time backups wherein, you keep the machine running 24hrs, please do not forget to make these timings 00:15 to 23:55

14) In rare situations one may want to backup data on alternate days, this can be achieved by selecting alternate days of the week.

15) Frequency of backups can be selected using 'Repeat Backups'

16) Advanced/Backup Open Files: This is essential for consistent backups of Database files / PST files etc.

17) Command prior to Backup/Command Post Backup: You can execute a BAT file just before or after a backup.

18) Do not Backup old files: This is to avoid backup of files older than, say 2 years.

19) Refresh Backups After: Since DSafe5 does not refresh data by default you can use this option.

20) MS-SQL: DSafe takes backup of the MS-SQL backup files, this option needs to be directed to the folder where the files are located.

Configuration

Destination

Local Destinations *(DSafeServer | Configuration | Destinations | Local)*

Most commonly used method of Storage is the Local Destination. The local destination can be a Local Drive of a machine on which

DSafeServer/DSafeClient is installed. It can also be a Remote Mapped Drive of a NAS, with the Share used only through this specific machine.

If the DSafe Destination Machine is not shared and if it is not being used for any purpose other than DSafe, it will be highly resistant to any

form of Ransomware/Virus attack.

Destination Identity: Will be filled Automatically during Save, you can change it to a preferred name anytime.

Destination Machine Name: Select the desired machine, if it is not visible in the Drop Down install DSafeClientSetup.exe on that machine.

Public Static IP: If this machine is to be accessed from the WAN, enter the public static IP.

Local IP: At times the local machines cannot access certain machines within the LAN by its name, therefore it is preferred to put the Local IP too. If this value moves to the Static IP during Save it is okay.

Destination Drive/Folder: You can specify the folder in which you want \DSafeBack\ to be created in. In case of *Remote Drive* you will have to Map the Drive from *DSafeServer | Setup | Remote Mapped Drives.* This is required because the backup takes place in the System User, and the mapping you may see through windows Explorer will not apply for the System User.

Maximum Simultaneous Copy: By default, this is set to 5 and can be increased/decreased as per the capacity of your Network so as to utilise your bandwidth optimally.

Setup this destination for Disaster Recovery: Here you can select another Destination wherein you want to replicate the backup. The destination you select should be used only for DR and not for Direct Backups.

Schedule Disaster Recovery: You can schedule the DR so that DR copy starts off, say, only at night.

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Shared NAS

Not recommended, kept for Legacy as there is chance for the transfer of Ransomware/Viruses. There is also chance of Users of the Client machines getting access to the Destination directly. All the same it is a fast method of backup and has larger storage capacities. It is not recommended for usage on the WAN as it can be hacked as communication is not under Secured layer. All Fields to be entered similar to Local Destination except for the Authentication.

Destination Identity

Kept for Legacy only. Not recommended.

Destination Machine Name

Public Static IP

Local IP

Destination Drive / Folder

Maximum Simultaneous Copy

Shared Folder Authentication Details (If Any)

User Name (Domain\User)

Password

Setup this Destination for Disaster Recovery

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FTP/FTPS

This Destination can be either an FTPS provided by an ISP or your own NAS device with FTP/FTPS activated. If using FTPS this can be also be done safely across the WAN. The Level of Security will depend upon the NAS provider and not DSafe.

Destination Identity

Your usage of Cloud space has to be in compliance of the Clou
Space Provider. Kindly note that FTPS is Secure whereas FTP
not Secure

FTP Setup

FTP Host Name

FTP Host Name (LAN)

User Name

FTP Port

☐ Passive Mode

SSL Type

Password

Remote Subfolder (Optional)

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Onedrive / Sharepoint

This destination will make use of the Cloud storage of Microsoft's Onedrive/Sharepoint. You just need to click on New Authentication and you will be taken to Microsoft's Authentication screen. After correct Authentication you can select a *Remote Subfolder* or leave it blank. Also leave *Use Application Folder* Blank as it has been kept for legacy only. Kindly note that Sharepoint will use the **Root Site** only.

Destination Identity

Your usage of Cloud space has to be in compliance of the Cloud Space Provider.

New Authentication

Total Space : 0

Microsoft Account User Name

Used Space : 0

Available Space : 0

Email ID

Remote Subfolder (Optional)

Use Application Folder ▣

View Files on Cloud

Save   Close

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Email Settings

Email Configuration

Internet machine: In case your DSafeServer does not have connection to the internet, you need to assign another machine within your network for essential communication.

Email Time: This is for sending Email of Previous day's backup logs.

Send Backup Logs using DSafe VPS: The email content is transferred under SSL to DSafe's Server, which in turn sends the Email to the desired recipients. In case you need to use your own SMTP account to send emails then you can drop down the *Standard Defaults* and select <specify>.

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Email Configuration

Internet Machine [▼]

Trigger EMail to user if backup is aborted/postponed over 4 Days

EMail Time [00:00 ▲▼]   12:00 am

Email Contents :

[   ]

Send Backup Logs using DSafe VPS ■

[Default]

Standard Defaults [▼]   Port [   ]

EMails Host [   ]   Authentication [▼]

User Name [   ]

Password [   ] ◯   SSL-Type [▼]

[Send mail now]   [Close]   [Save]

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Email Recipients: Here you can enter multiple users who need to receive the Email Backup Logs.

| ◄ | ► | **+** | **−** |

EmailId

Email ID

C.C.   (eg: it@abc.com , support@abc.com)

B.C.C.   (eg: it@xyz.com , support@xyz.com)

Group

Sub - Group

Attachment Log as XLS file   ■

Send Mail to this Recipient

Email Setup needs to be done   Save   Close

Groupings

For installations with more than a few hundred machines it is advisable to group the machines either department wise or location wise.

Allocations of the machines to the correct groups can be gone globally if machines have particular series of IP Addresses or Host Names. For this you will have to create one sample and then click *Quick Allocation*

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○ IP Address   ● Host Name

Host Name Pattern [   ] [Show Matching List] ☐ Show All

Group   Mumbai

Sub Group

Machine List

[   ]

☐ Select All   [Allocate] [Cancel]

Standard File Types

These are few defaults pre-entered into the system. More can be added as per your requirement.
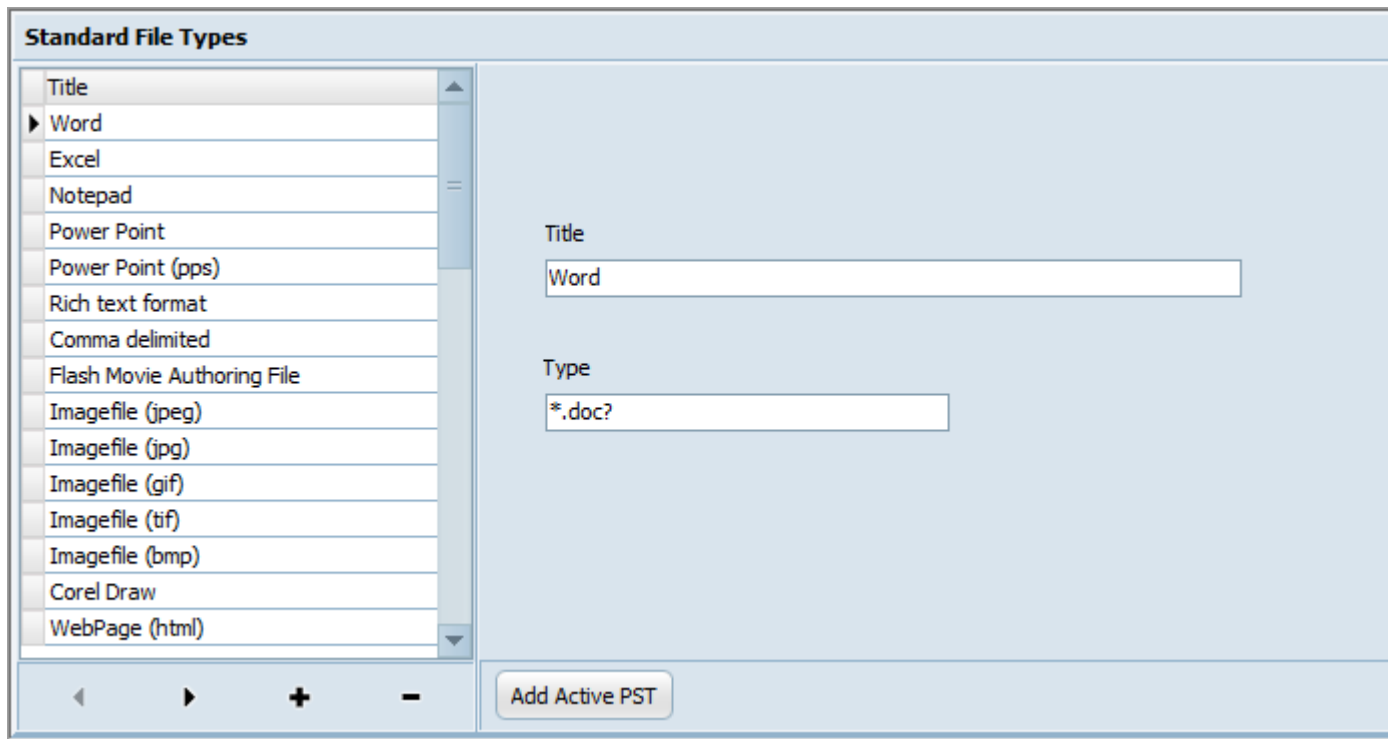
Exclusions

To optimise the backups there are three types of Exclusions.

System: This involves the exclusion of Windows System Folder etc.
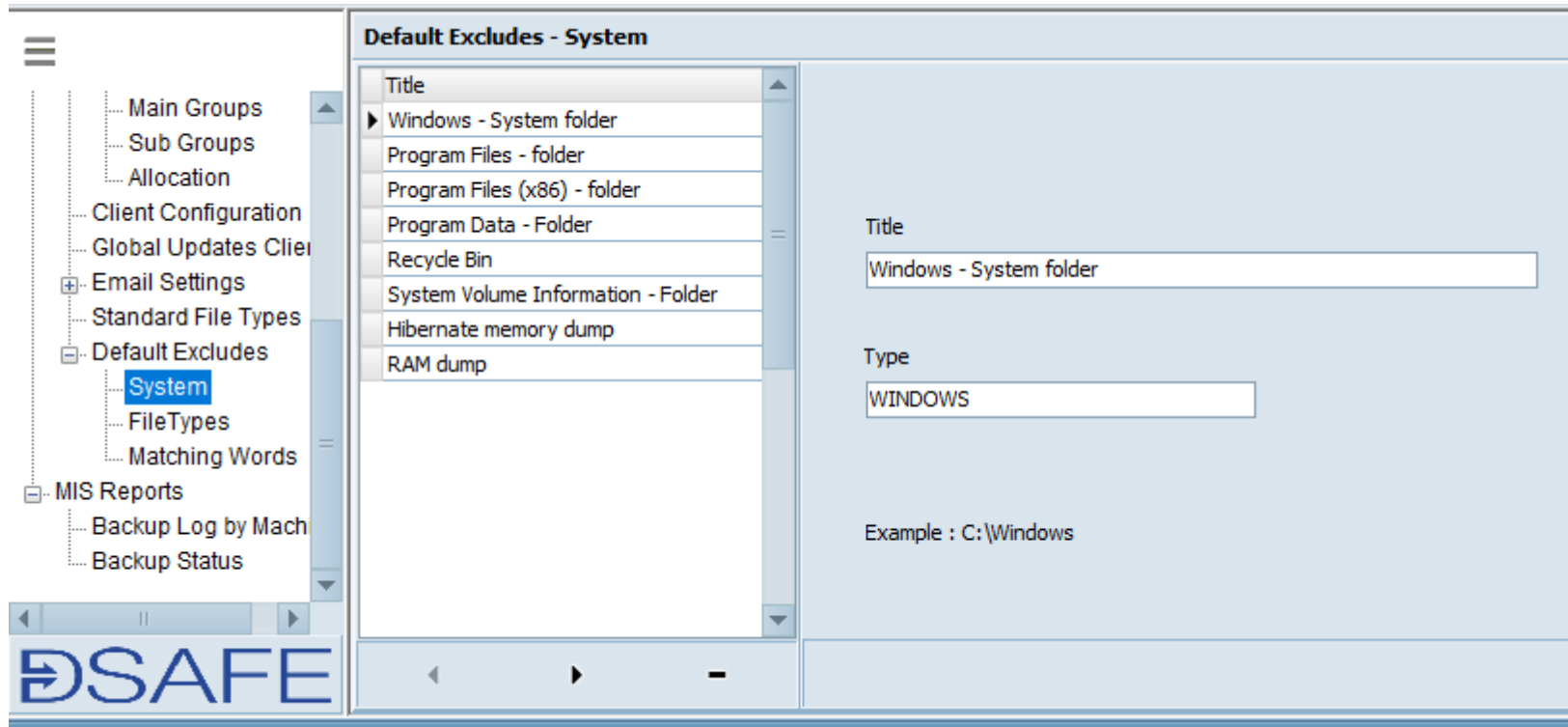
File Type: DSafe takes care to exclude certain files from backup, e.g.: Exe files, as they are not needed during restore and essentially DSafe is a Data backup software, Exe files are also carriers of Virus etc.

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Default Excludes - FileTypes

Title
▶ Application files
Application Extension
CAB
~*
$*
TMP
Index files
MPEG Layer 3 Audio
MPEG-4 Movie
Movie files

Title

Application files

Type

exe

◀ ▶ + −
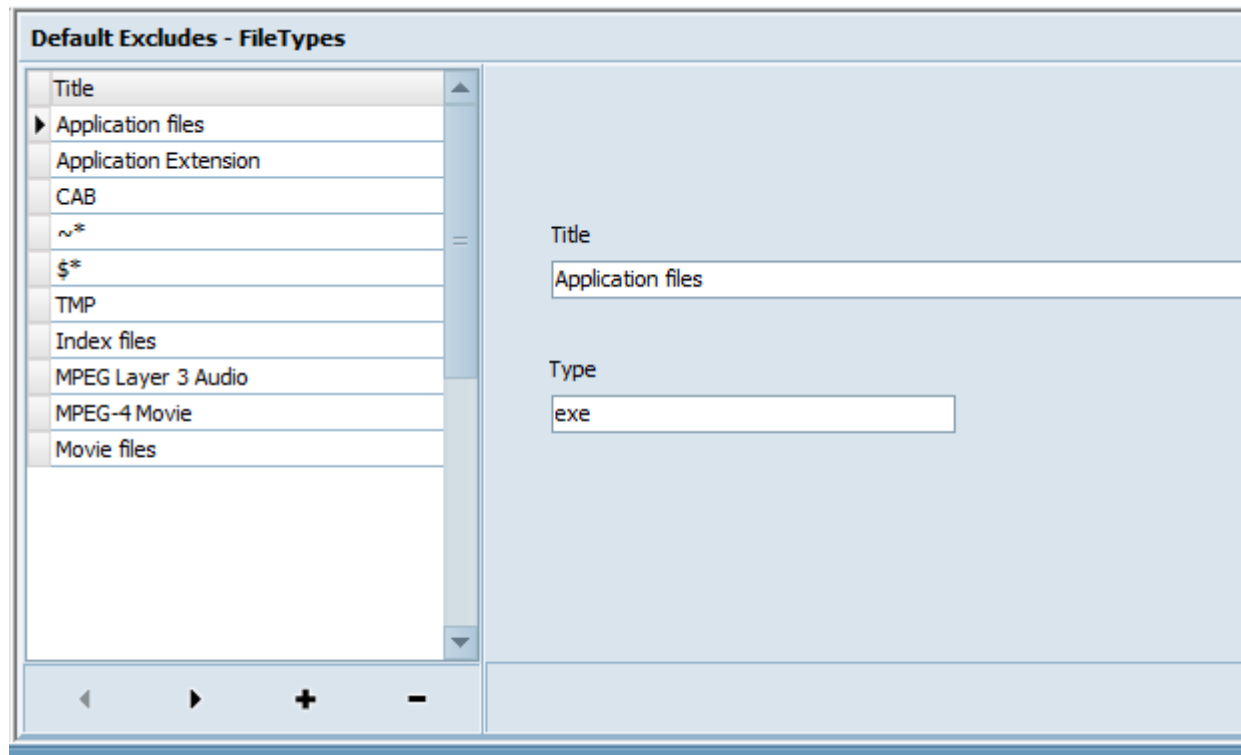
Matching Words: Folders like \Cache are generally used for storing temporary files. These are excluded. You can add such Exclusion as per your requirement.

Kindly Note: If any specific Backup Profile needs to overrule these Exclusions there is no need to change from these Global settings. You can Overrule in the Backup Profile Entry itself.

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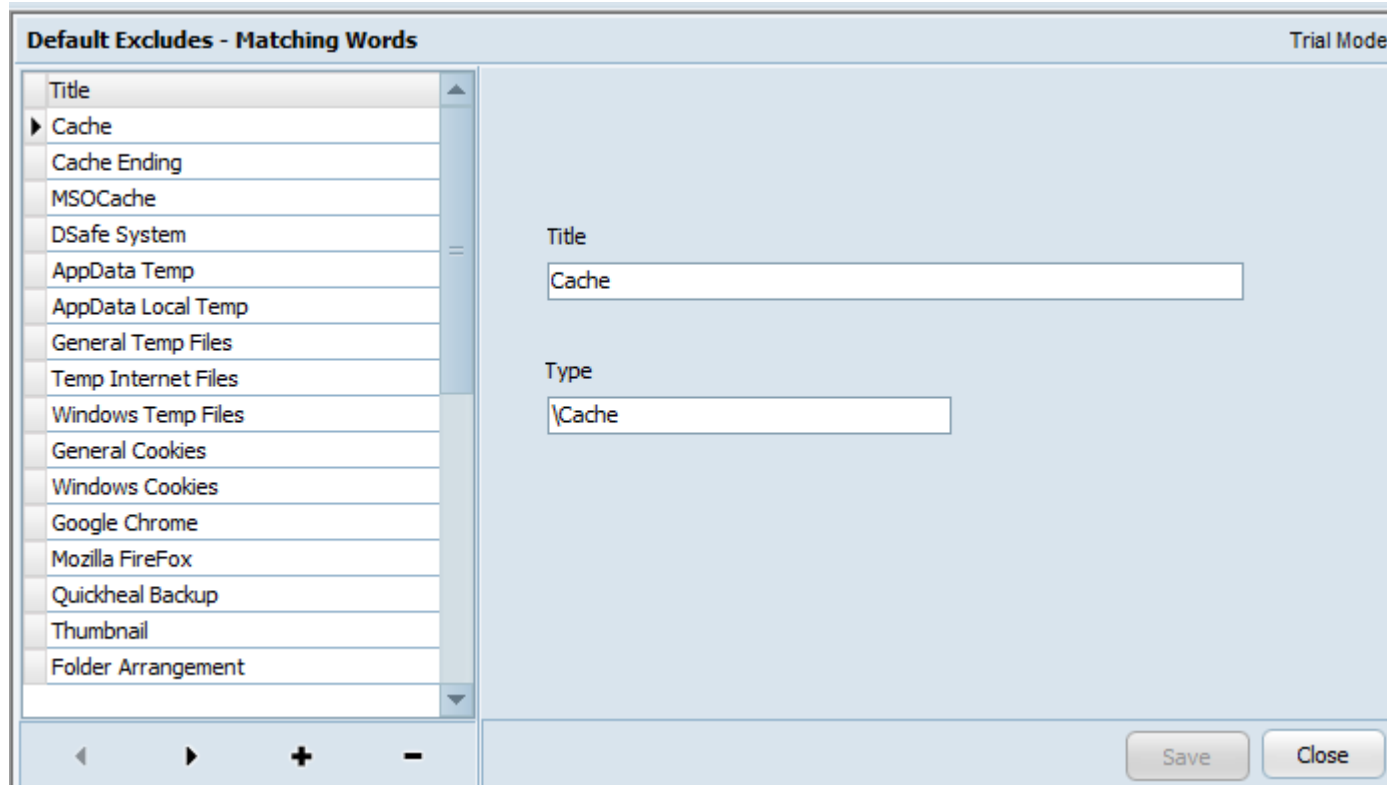
Server Setups *(DSafeServer | Setup | Server Setup)*

DSafe Server Setup

System Backup Machine

RF

Template for Default Backup Profiles (C Drive)

C_AAF1

Template for Default Backup Profiles (Other Drives)

D_RF1

Default Destination

AAF_C1

Template for Default Client Configuration

AAF

Super Server Address

Branch ID

Send System Backup to DSafe VPS ✓

Do not Update DSafe Versions Automatically ■

Show User name in EMailLog ■

Auto Enable backups on installation ■

Scatter backups across   1 Hour

DeScatter backups

Save   Cancel

System Backup Machine: In case your DSafeServer Machine crashes then you need a backup of the DSafe Configuration. You need to remember this Machine Setting if every required.

Send System Backup to DSafe VPS: This will additionally store your DSafe Configuration files on our Server.

Templates: You can define two templates, one for C: and another for any other Drive. New machines File Include/Exclude will be picked up from these templates.

Do not Update DSafe Versions Automatically: This option should not be ticked as this is essential for healthy backups.

Show User name in Email Log: When Machine names are similar and confusing you may want User Name attached.

Auto Enable backup on installation: When DSafe is installed on a New Machine, its Backup Profiles will be enabled and will start immediately. If your installation has multiple destinations and your default destination is not the correct one for the new machine, then backups will begin to the wrong destination, therefore you must use this option carefully.

Default Destination: Any new machine being installed will be given this destination. Applies only if there are more than one destination.

Template for Default Client Configuration: In case you have done Client Setup to restrict Restore from Client machines and want to avoid repeating the steps, then you can decide any one machine as the Template for the Client Configuration.

Super Server Address: This is if you have multiple DSafe Installations and want to view Backup Activity at one Location whose Branch ID is 'SUS' For the Super Server leave the Address Blank whereas in the other Locations mention Public Static IP of the Super Server.

Scatter backups across: If several backups start at, say 10am, then the Destination machine will have to give all these machines their respective Last File status. To avoid overcrowding of messages we have given this option to Scatter the backups. You will need this if you are continuously getting the message *Destination Overloaded*. The Hour part does not get altered only the Minutes part changes.

![DSAFE logo] For Optimal Backups and Reliable Restores

Password Setting

Passwords in DSafe have to be Alpha Numeric. Special characters are not permitted.

Administrative Password Entry: Apart from entry into DSafeServer, this password is also used during Restore of *DSafeServer | Setup | Another User's data*. The default at setup is "DSafe", this should be changed after initial setup.
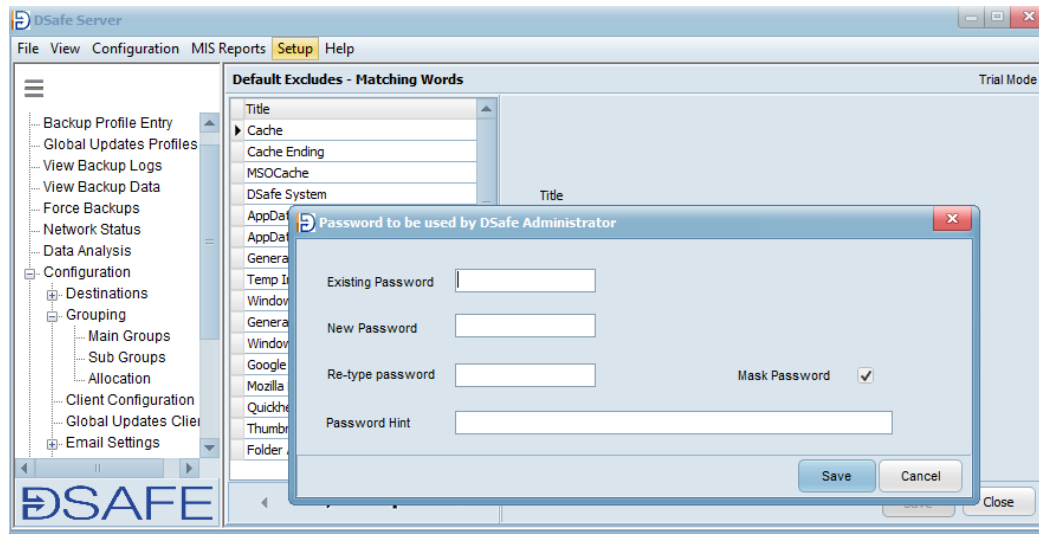
***DSafeServer | Setup | Standard Password for Backups*:** In case your data is lying in the Cloud / Data Centre etc, and you do not want any outsider to access the data, you can use this password. Encryption method used is AES 256.

***DSafeClient | Tools | Password for Backups*:** Users who want to maintain the privacy of their data can use this Password option. Encryption method used is AES 256. This will take precedence over the Standard Password.

DSAFE
For Optimal Backups and Reliable Restores

DSafeServer | Configuration | Client Configuration:
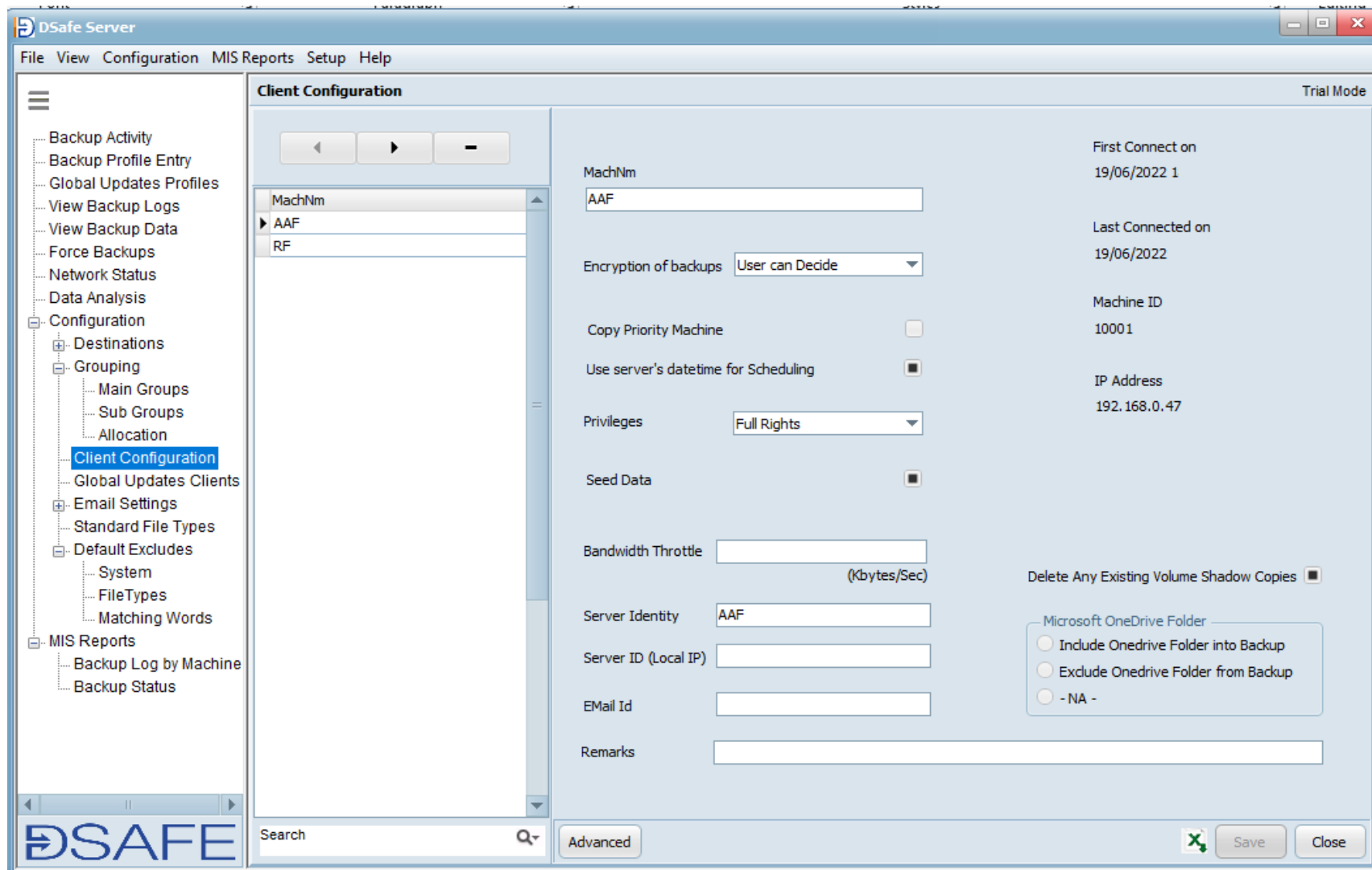
Encryption of Backups: Administrator can make it mandatory for certain critical users to enter their personal password. Administrator can also restrict a user from Entering a personal password.

Copy Priority Machine: Critical users can be given Copy Priority so that they are added directly to the start of the File Transfer Queue.

Use Server's Datetime for Scheduling: By default, DSafe uses Server's Datetime for End Point backup's scheduling. For End Points working in different time zones, you may want to untick this option so that those machines will use their own Clock.

Privileges: With this option you can decide if End Point user can Restore his own data or not. You can also make DSafeClient silent on desired machines.

Seed Data: This is for remote Machines with backups over 50GB etc. You can opt for seeding wherein First Full backup will go to a Local Folder and same can be manually copied onto the correct destination. Incremental backups will continue from there.

Bandwidth Throttle: When backups going to OneDrive/Sharepoint need to be slowed down.

Server Identity/ID (Local IP): This is filled by Default from the Settings during DSafe Server Setup. In case you need to change it is better to contact DSafe Team, as any mistake will disconnect the End Points from DSafeServer.

Delete any existing Shadow Copy: Some applications maintain long term backups using Microsoft's Volume Shadow Copy. They may be active in your machine for months and may be causing your machine to slow down. You have the option to delete any such backups prior to our backup initiation. Deleting the older VSS will be your decision entirely.

Microsoft Onedrive Folder: When your data is synchronised with the Onedrive cloud some files may never reside on your HDD. In case you want a local backup then you need to select the First Option. This flushing of the Cloud data onto your disk may take a few days.

Email ID: User of the respective End Point can be sent a Email using this Email ID. Currently it can be sent for users who are interrupting backups daily.

DSAFE
For Optimal Backups and Reliable Restores

DSafe5 Data Restore

DSafe Client

File Tools Help

☰

- Backup Activity
- Restore
- Force Backups
- Missing Files
- View Backups
- Backup Log
- IncomingBackups

Restore

	Backup Profile Name	Destination Machine	Destination Drive	Backup Upto
	C_AAF1	AAF_C1	C:\	19/06/2022 18:54

Current Data ✓

Different Location   Another User's data   **Proceed**

Restore Activity

DSAFE

DSAFE
For Optimal Backups and Reliable Restores

Basic Steps:

1) Restore is done using the Client Module DSafe.exe.
2) Click Restore on Left Menu.
3) On the Right Double Click the Backup you need.
4) Select the files you need and *Proceed*.

Restore

Restore as on [19/06/2022 18:54 ▼]   [X] Search   🔍

	File Name	File Date	File Size Basis In	Latest	File Status	Missing Detected On
☐	C:\AfWrk\Accounts\Simple\Others\ssiipl-accts -back	16/10/2014 17:35	17.5 KB	17.5 KB		
☑ •	C:\AfWrk\Accounts\Simple\Others\ssiipl-accts-06-07	27/04/2020 08:39	55 Bytes	55 Bytes		
☐	C:\AfWrk\Accounts\Simple\Others\ssiipl-accts-08-12	11/10/2013 12:26	69.3 KB	69.3 KB		
☑ •	C:\AfWrk\Accounts\Simple\Others\ssiipl-accts-08-12	27/04/2020 08:40	55 Bytes	55 Bytes		
☐	C:\AfWrk\Accounts\Simple\Others\ssiipl-accts-08-12	05/06/2004 15:10				
☐	C:\AfWrk\Accounts\Simple\Pictures\datapath.txt	18/03/2022 19:57	29 Bytes	29 Bytes		
☑ ▷	C:\AfWrk\Accounts\Simple\Pictures\nobal.txt	05/06/2004 15:10				
☐	C:\AfWrk\Accounts\Simple\Utls\UDF\fbudf.txt	05/06/2010 01:26	1.4 KB	1.4 KB		
☐	C:\AfWrk\Accounts\Simple\vat_purchase reg sep 21	16/10/2014 17:35	20 KB	20 KB		
	Files 21311		27.1 GB	27.1 GB		

☐ Select all   (Select using <space> / Dbl.Click)   Selected File/s = 3 / 21311

[Show Folders]   [**Restore**] C_AAF1   [Back]

5) Select where you want the Data Restored and Proceed.

Restore

Restore To

○ Default Location

● Choose Location `C:\DSafeRestore\` [•••]

○ Never Overwrite

○ Freshen Files

○ Always Overwrite

Restore Deleted Files ☐

Password if any [   ] [Hint]

[Proceed with restore]   [Close]

Restore Activity

6) Wait for '*Restore Completed*' message.

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For Optimal Backups and Reliable Restores

Restore

Restore To

- ○ Default Location
- ● Choose Location   `C:\DSafeRestore\`   [**•••**]

- ● Never Overwrite
- ○ Freshen Files
- ○ Always Overwrite

Restore Deleted Files ☐

Password if any   [_____]   [Hint]

[Proceed with restore]   **Restore Complete !!**   [Close]

Restore Activity

For Optimal Backups and Reliable Restores

Simplest Method is to Restore data from the same machine whose data is needed to be restored.

If **Password Protected**, you must enter correct password after Point 4 of Basic Steps.

If you want to Restore files that were deleted tick '**Restore Missing Files**' after Point 4 of *Basic Steps*.

Point in time recovery: After Step 3 you will get to select Older Dates for restoring data, as in, going back in time.

Folders Tree Structure: If you prefer to select from the Folder Structure Click, 'Show Folders' during step 4 of *Basic Steps*.

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For Optimal Backups and Reliable Restores

Restore

	Backup Profile Name	Destination Machine	Destination Drive	Backup Upto
	C_AAF1	AAF_C1	C:\	19/06/2022 18:54

Current Data ☑   From Disaster recovery destination ☑

Different Location	Another User's data		Proceed

Restore Activity

Disaster Recovery: If your local backup was selected for Disaster Recovery, then a check box will appear during Step 3 of *Basic Steps*, giving you the option to restore from Local Destination or from the Disaster Recovery Destination.
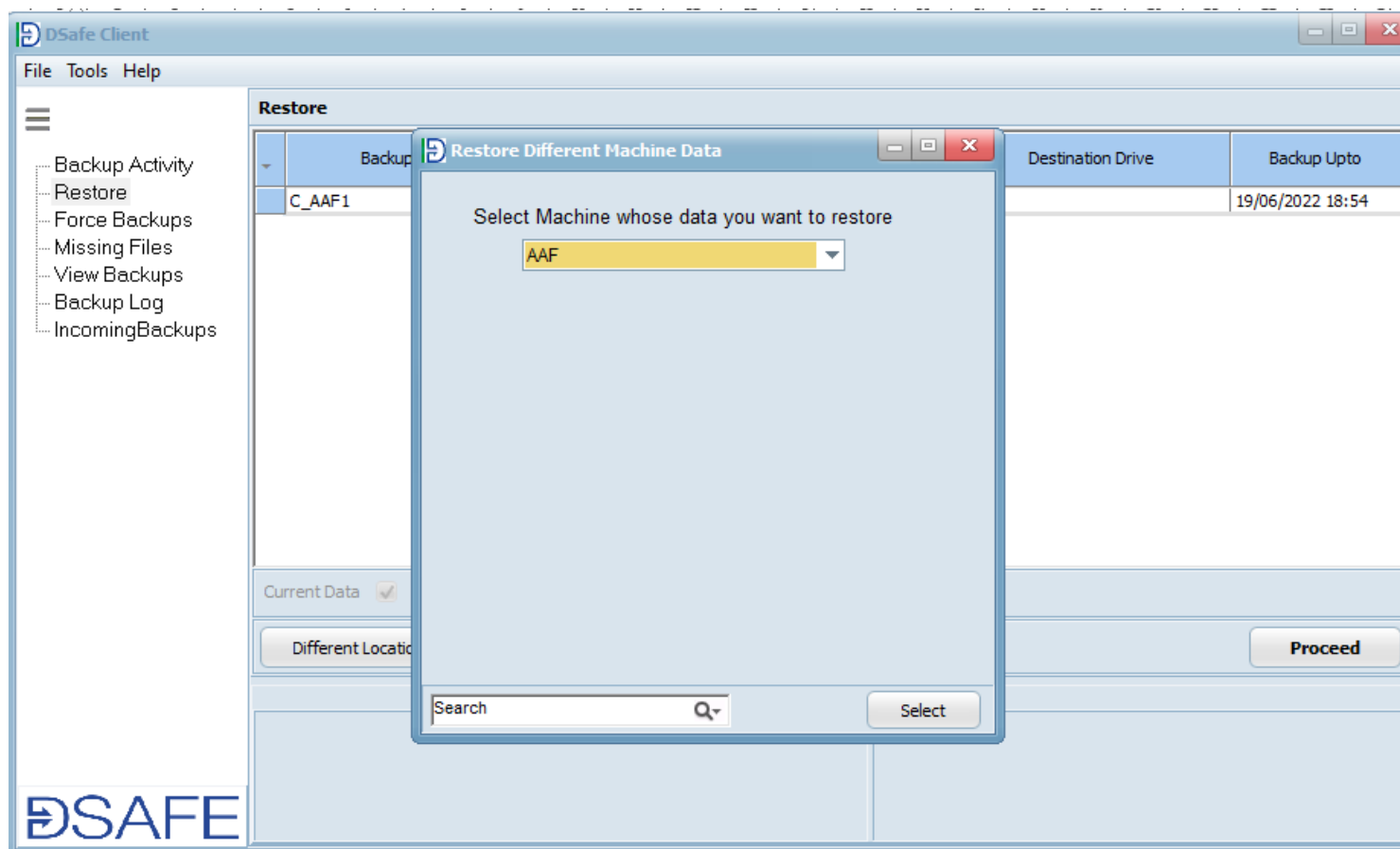
Restore data of **another machine**:

    a) Select 'Another User's Data'

    b) Authenticate using DSafeServer Admin password.

    c) Select Machine

    d) Remaining Steps are similar to *Basic Steps*.
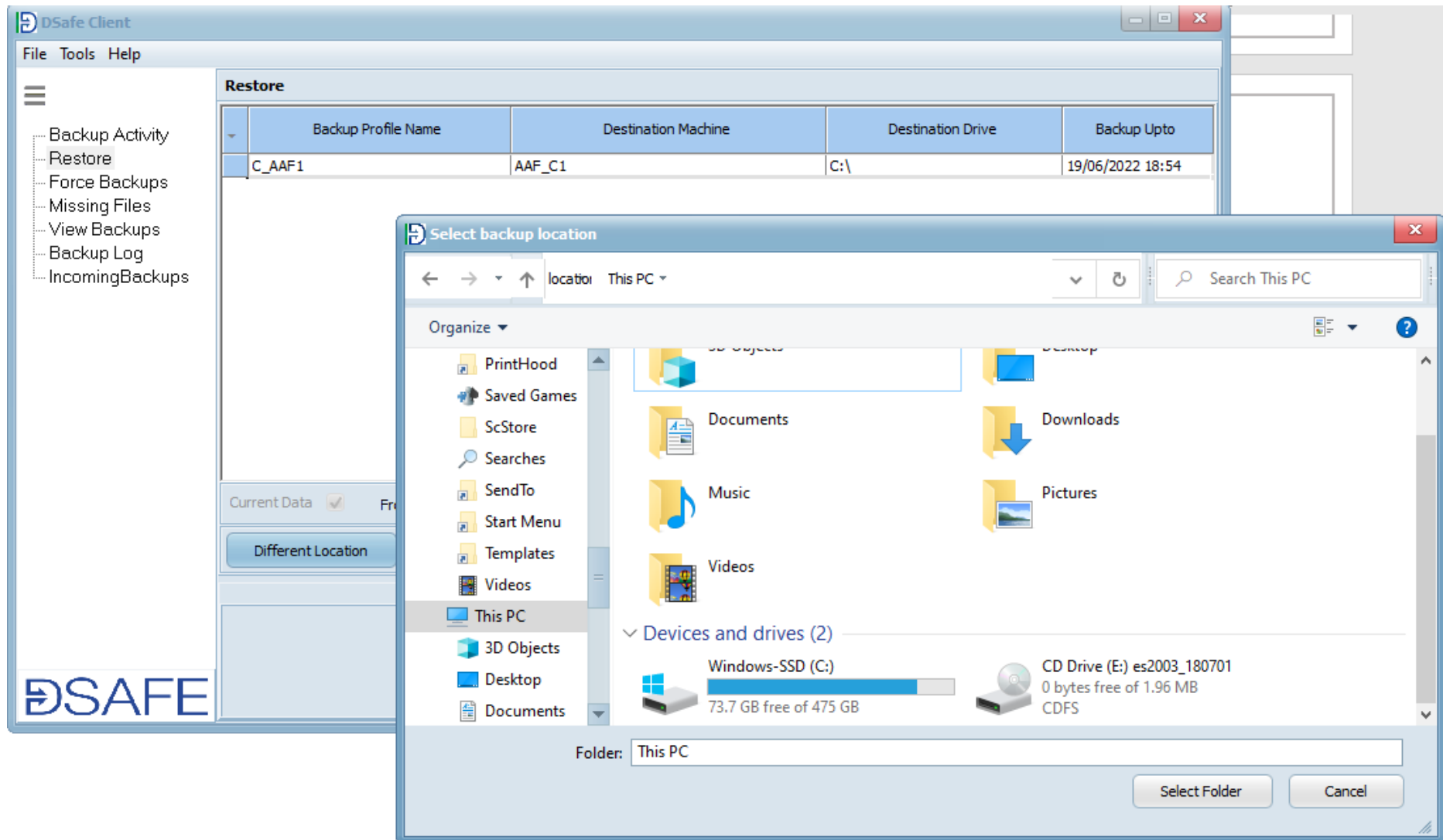
Different Location: This can be used to Restore data from Indirect Destinations like old backups stored in separate HDD, Data Downloaded from Cloud onto HDD etc.

1) Select the DSafeBack folder
2) Select the Machine
3) Remaining Steps are similar to *Basic Steps*.

DSAFE

For Optimal Backups and Reliable Restores
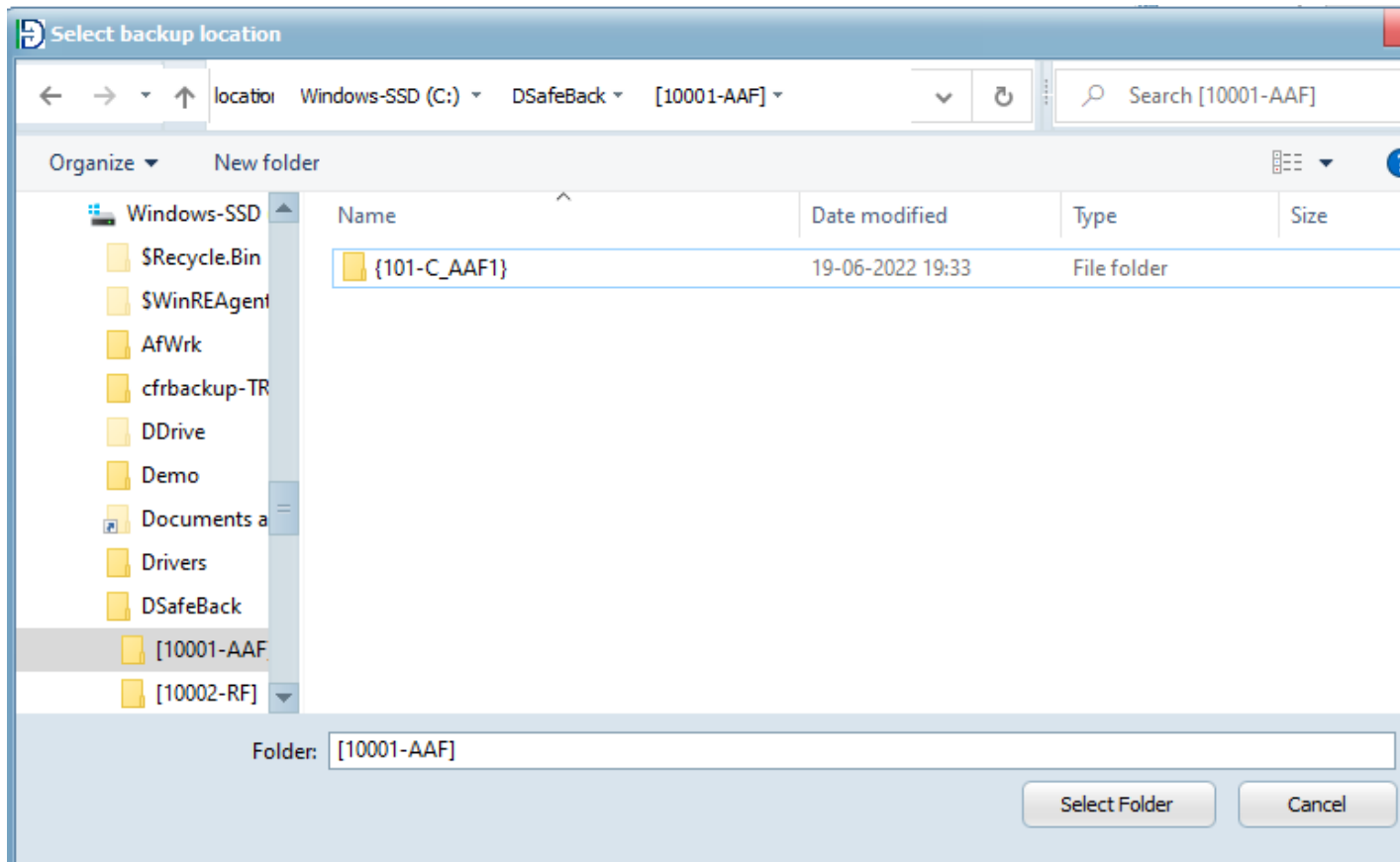
Reports

DSafeServer | View Backup Logs:

This report will provide day wise backup performance.

View Backup Logs — Demo Industries Limited

Backup Date: 18/06/2022

#	Source Machine	Drive	Backup Name	Status	Remarks	Time(24 Hrs) Backup	Copy	Processing Time Backup	Copy	File Size Actual	Compress	No.of Files	Destination Machine	Drive	Backup No.
1	N11	D:\	D_N11	✓		10:00	10:19	15:29 m	02:00 s	42.9 MB	24.6 MB	126	SERVER2	D:\DSafe5Backup	000200309
2	N11	E:\	E_N11	✓		10:15	10:19	04:32 m		12 MB	4.9 MB	2	SERVER2	D:\DSafe5Backup	000200318
3	N43	D:\	D_N43	✓		10:00	10:04	04:15 m	03:00 s	133.3 MB	110.6 MB	2	SERVER2	D:\DSafe5Backup	000200194
4	N39	D:\	D_N39	✓		10:00	10:03	03:43 m		9.3 MB	4.4 MB	18	SERVER2	D:\DSafe5Backup	000100184
5	AARATI	D:\	D_AARATI1	✓		10:01	10:03	02:42 m	08:00 s	89.2 MB	46.1 MB	1	SERVER2	D:\DSafe5Backup	000100301
6	N125	D:\	D_N125	✓		10:00	10:01	01:40 m		49.5 MB	34.8 MB	18	SERVER2	D:\DSafe5Backup	000300216
7	N33	D:\	D_N33	✓		10:05	10:24	09:32 m		85.1 MB	52.3 MB	2	SERVER2	D:\DSafe5Backup	000100161
8	N4	E:\	E_N4	✓		10:03	15:46	05:41 h	15:20 m	13.1 GB	9.1 GB	7	SERVER2	D:\DSafe5Backup	000100137
9	XPRESS9	D:\	D_XPRESS9	✓		10:01	10:07	06:49 m	33:00 s	535.4 MB	378.9 MB	2	SERVER2	D:\DSafe5Backup	000200120
10	ARVINDLAPTOP	D:\	D_DESKTOP-NC3K	✓		10:00	10:05	05:11 m	01:00 s	9 Bytes	11 Bytes	1	SERVER2	D:\DSafe5Backup	000100227
11	N27	D:\	D_N27	✓		10:00	10:25	25:21 m	08:00 s	129.3 MB	69.9 MB	20	SERVER2	D:\DSafe5Backup	000300089
12	N131	D:\	D_N1311	✓		10:01	10:03	02:27 m	01:00 s	28.5 MB	21.7 MB	6	SERVER2	D:\DSafe5Backup	000100136
13	N105	D:\	D_N105	✓		10:01	10:20	19:50 m	03:00 s	57.6 MB	36.7 MB	5	SERVER2	D:\DSafe5Backup	000200308
14	N25-PC	D:\	D_N25-PC	✓		10:07	10:10	03:39 m	01:00 s	122.1 MB	94.9 MB	2	SERVER2	D:\DSafe5Backup	000200092
15	N12	D:\	D_N12	✓		10:17	10:17	01:01 m	05:00 s	177.8 MB	139.4 MB	25	SERVER2	D:\DSafe5Backup	000300090
16	IBM-PC	D:\	D_IBM-PC	✓		10:01	10:05	04:07 m	01:00 s	94.3 MB	61.7 MB	1	SERVER2	D:\DSafe5Backup	000100144
17	N10	E:\	E_N10	✓		10:12	10:28	15:57 m	01:00 s	68.5 MB	40.3 MB	2	SERVER2	D:\DSafe5Backup	000200305
18	N44	D:\	D_N44	✓		10:01	10:38	37:49 m	06:00 s	402.9 MB	279 MB	44	SERVER2	D:\DSafe5Backup	000100328
19	N71	D:\	D_N71	✓		10:00	10:23	23:03 m	20:00 s	302.4 MB	232.2 MB	3	SERVER2	D:\DSafe5Backup	000100189
20	ARVIND	D:\	D_ARVIND	✓		10:23	10:28	05:20 m	03:00 s	53.5 MB	43.7 MB	1	SERVER2	D:\DSafe5Backup	000200217
21	N104	D:\	D_N104	✓		10:00	10:22	22:35 m	06:00 s	301.3 MB	215 MB	2	SERVER2	D:\DSafe5Backup	000100195
22	N91	D:\	D_N91	✓		11:18	11:25	07:36 m	01:00 s	26.1 MB	12.2 MB	28	SERVER2	D:\DSafe5Backup	000100150
23	N21	E:\	E_N21	✓		10:58	11:08	10:40 m	03:00 s	152 MB	112.3 MB	2	SERVER2	D:\DSafe5Backup	000100187
24	N14	E:\	E_N14	✓		10:06	10:13	06:13 m	01:00 s	122.9 MB	86.9 MB	3	SERVER2	D:\DSafe5Backup	000200112
25	N61	D:\	D_N61	✓		10:01	10:04	03:04 m	01:00 s	48.4 MB	27.7 MB	2	SERVER2	D:\DSafe5Backup	000100187
26	N116	D:\	D_N116	✓		10:00	10:05	05:47 m		20.6 MB	10.3 MB	1	SERVER2	D:\DSafe5Backup	000100310
27	N94	D:\	D_N94	✓		10:00	10:21	20:55 m	14:00 s	254.1 MB	168.4 MB	9	SERVER2	D:\DSafe5Backup	000200288
28	NEWPC01	D:\	D_NEWPC01	()		10:00							SERVER2		000300030
29	N113	D:\	D_N113			10:02	10:03	01:25 m	01:00 s	66.0 MB	45.0 MB	1	SERVER2		000200122

ƉSAFE For Optimal Backups and Reliable Restores

Understanding of Status Column:

1) Tick mark in the Status Column with blank Remark indicates a successful backup.
2) Tick mark in the Status Column with Remark indicates a successful backup with some alerts.
3) Cross mark in the Status Column indicates unsuccessful backup, reason will be mentioned in the Remarks column.
4) In Process mark in the Status Column indicates some ongoing process and needs to be understood from the Remark as mentioned below.

Understanding of Remarks Column:

1. No data to process: All backups up to date and nothing to backup today
2. No data to backup: Backup Profile configured but no data found to backup. Either Delete this Backup profile or correct it.
3. Destination not Available: Source Machine cannot connect to the Destination
4. Too many Skipped Files Skipped: Need to check Skipped files from DSafeClient View backups and check it's remarks.
5. Version Not Updated: Version not matching with the DSafeServer. Backups are kept on Hold.
6. Partial-Exceeding max file numbers: DSafe splits backups internally in workable batches. Backups are going on fine.
7. Partial-Exceeding max zip size: DSafe splits backups internally in workable batches. Backups are going on fine.
8. Partial-Exceeding available free space: No working space. Can change work drive from DSafe Client / Tools / Configuration.
9. Partial-FAT32 work drive: Work Drive is Fat32 (Old system). Can change work drive from DSafe Client / Tools / Configuration.
10. Copy Pending: Previous backup copy not yet sent. May be transferring.
11. Copy Pending Unusual: Too many days backup copy not done, need to check why!
12. Backup Disabled: Backup has been disabled on DSafeServer for this Backup Profile.

13. Destination not matching: Backups Files state changed since last complete backup. Destination Drive has Changed abruptly or Source has been formatted. Next backup will be a Refreshed backup.

14. Postponed by user: User has Postponed backup

15. Aborted by user: User has aborted backup.

16. Last Connected ....: Machine has not connected to DSafeServer for .... days

17. Password disallowed: Administrator has withdrawn rights for this user to add Password.

18. VSS Failed: Volume Shadow Copy did not take place. If it continues please contact DSafe Support

19. Cannot assign Drive to VSS: Volume Shadow Copy did not take place. If it continues please contact DSafe Support

20. System State Backup Failed: Windows Server machine's System State backup failed. Please check Working Space.

21. Cannot connect to database: Cannot Connect to DSafe System database. Please contact DSafe Support.

22. Logs not Available: No message has come from this Client machine to DSafeServer.

23. System Time ChangedSystem time changed in between backups.: Backup discarded.

24. Complete. Awaiting Ackn.: Backup has reached Destination machine, but Source machine is not notified yet.

25. ** No connection with Server **: Client needs to Connect to the DSafe Server to recheck Registration Details

26. Seeding Path Not Found: Seeding Path, Setup in Client Configuration on DSafe Server for First Time backup path, not found.

27. Seeding Completed: Seeding Completed Now Clear Seeding Path from Client Configuration to start Incremental backups.

28. In Seeding Mode: This incremental backup has been halted as Seeding Path has been Setup for this Machine.

29. Upload Session Expired: When uploading to Onedrive the file must be uploaded within 24 hours else if there is a

30. interruption the upload will start all over again. It is advised to keep that machine On and

31. connected to the internet.

32. Re-Authenticate Destination: Re-Authentication is needed for Onedrive as password may have changed.

33. Destination Drive inaccessible: Destination drive Connection issues or Password improper

DSAFE
For Optimal Backups and Reliable Restores

DSafeServer | MIS | Backup Status | By Profile : This report will provide backup performance Summary.

Backup Status — Demo Industries Limited

Search

By Profile | By Machine

#	Source Machine	Drive	Destination	Profile	Disabled	Schedule	Start Date	Last Backup Dys Elaps Complete	Incomplete	Full Backup Date	Size	Complete	Increments Nos	Size	Last Backup Date	Version	Remark	MachId	User
1	N22	D:\	SERVER2_DDSafe	D_N22		Schedule	06/12/2021	0		04/04/2022	14.4 GB	✔	24	3.7 GB	18/06/2022	5.0331		10025	SU__O__
2	N124	D:\	SERVER2_DDSafe	D_N124		Schedule	06/12/2021	0		23/04/2021	1.9 GB	✔	57	2.9 GB	18/06/2022	5.0331		10008	P____ __H
3	N120	D:\	SERVER2_DDSafe	D_N120		Schedule	06/12/2021	0		19/04/2021	28.3 GB	✔	311	117.8 GB	18/06/2022	5.0331		10017	S_
4	N96	D:\	SERVER2_DDSafe	D_N96		Schedule	06/12/2021	0		12/04/2021	12.9 GB	✔	148	18.1 GB	18/06/2022	5.0331		10053	A_
5	SAMSUNG	D:\	SERVER2_DDSafe	D_SAMSUNG		Schedule	06/12/2021	0		03/05/2021	7 GB	✔	138	4.9 GB	18/06/2022	5.0331		10066	S_
6	N22	E:\	SERVER2_DDSafe	E_N22		Schedule	06/12/2021	0		04/04/2022	27 GB	✔	1	369.1 MB	18/06/2022	5.0331		10025	SU
7	N131	D:\	SERVER2_DDSafe	D_N1311		Schedule	06/12/2021	0		10/06/2021	9 GB	✔	134	4.5 GB	18/06/2022	5.0331		10026	S_
8	N130	D:\	SERVER2_DDSafe	D_N1301		Schedule	06/12/2021	0		08/10/2021	4.3 GB	✔	163	10.9 GB	18/06/2022	5.0331		10116	A_
9	N121	D:\	SERVER2_DDSafe	D_N121		Schedule	06/12/2021	0		01/03/2022	4.8 GB	✔	195	5.5 GB	18/06/2022	5.0331		10011	S_
10	N21	E:\	SERVER2_DDSafe	E_N21		Schedule	06/12/2021	0		19/04/2021	12.1 GB	✔	185	36.4 GB	18/06/2022	5.0331		10062	A_
11	N125	D:\	SERVER2_DDSafe	D_N125		Schedule	06/12/2021	0		14/08/2021	9 GB	✔	214	10.6 GB	18/06/2022	5.0331		10045	S_
12	N109	D:\	SERVER2_DDSafe	D_N109		Schedule	06/12/2021	0		12/04/2021	1.9 GB	✔	255	33.3 GB	18/06/2022	5.0331		10057	A_
13	AARATI	D:\	SERVER2_DDSafe	D_AARATI		Schedule	06/12/2021	0		01/05/2021	177.9 MB	✔	292	5.8 GB	18/06/2022	5.0331		10093	
14	ACCOUNTSSERVE	E:\	SERVER2_DDSafe	E_ACCOUNTSSER		Schedule	06/12/2021	0		08/03/2022	6.5 GB	✔			18/06/2022	5.0331		10098	A_ 4
15	ARVINDLAPTOP	D:\	SERVER2_DDSafe	D_DESKTOP-NC3		Schedule	06/12/2021	0		09/06/2021	2.6 GB	✔	225	529.8 MB	18/06/2022	5.0331		10112	U_
16	AARATI	D:\	SERVER2_DDSafe	D_AARATI1		Schedule	06/12/2021	0		30/04/2021	320.7 MB	✔	299	16.3 GB	18/06/2022	5.0331		10093	
17	N94	D:\	SERVER2_DDSafe	D_N94		Schedule	06/12/2021	0		19/04/2021	62.2 GB	✔	284	70.8 GB	18/06/2022	5.0331		10072	M
18	N16	D:\	SERVER2_DDSafe	D_N16		Schedule	06/12/2021	0		14/03/2022	60.5 GB	✔	53	453.2 MB	18/06/2022	5.0331		10069	A_
19	N14	D:\	SERVER2_DDSafe	D_N14		Schedule	06/12/2021	0		23/04/2021	28 GB	✔	10	19.3 GB	18/06/2022	5.0331		10064	A_
20	SANTOSHS	D:\	SERVER2_DDSafe	D_SANTOSHS1		Schedule	06/12/2021	0		23/06/2021	10.8 GB	✔	8	853.2 MB	18/06/2022	5.0331		10133	S_ HILKAR
21	N97	D:\	SERVER2_DDSafe	D_N97		Schedule	06/12/2021	0		19/04/2021	47.9 GB	✔	237	50.1 GB	18/06/2022	5.0331		10043	D_
22	N99	D:\	SERVER2_DDSafe	D_N99		Schedule	06/12/2021	0		17/04/2021	18.3 GB	✔	301	14.5 GB	18/06/2022	5.0331		10059	A_
23	ACCOUNTSSERVE	F:\	SERVER2_DDSafe	F_ACCOUNTSSER		Schedule	07/03/2022	0		12/03/2022	32.1 KB	✔			18/06/2022	5.0331		10098	A_ 4
24	ACCOUNTS2	D:\	SERVER2_DDSafe	D_ACCOUNTS2		Schedule	06/12/2021	0		12/05/2021	35.2 GB	✔	35	16.6 MB	18/06/2022	5.0331		10099	A_ SERVER
											2790.2 GB			2816.4 GB					

Last Backup Days Elapsed | Complete | Incomplete:

- A large difference in these two columns means backup did take place many days ago but is unable to complete the current one.

- A large number in both these columns means these backups are not happening currently. Do look at the Remarks column to understand the reason.

Full Backup | Date | Size | Complete:

- After a few days of implementation these columns should have values.

- If these columns are blank, it indicates you will not be able to restore your complete data in case required.

Increments | Nos | Size:

- Number of successful incremental backups.

Last Backup Date:

- Ideally it should be current date.

For Optimal Backups and Reliable Restores

DSafeServer | MIS | Backup Status | By Machine:

Backup Status

Demo Industries Limited

[PDF icon] [Excel icon] Search [🔍▾]

By Profile | **By Machine**

	Source Machine	Destination	Profiles				Full Backup Status			Latest Backup Status			Backup Size		Last Connected	Version	MachId	User
			Total	On Request	Disabled	Enabled	Complete	Date	Days Elapsed	Complete	Date ▾	Days Elapsed	Full	Incre-ments				
1	N36	SERVER2_DDSa	2			2	✔	15/12/2021	185	✔	18/06/2022	0	31.6 GB	52.4 GB	18/06/2022	5.0331	10120	AN...SHEK
2	N38	SERVER2_DDSa	2			2	✔	01/07/2021	352	✔	18/06/2022	0	72.6 GB	181.4 GB	18/06/2022	5.0331	10002	SU
3	N113	SERVER2_DDSa	2			2	✔	16/04/2021	428	✔	18/06/2022	0	5.9 GB	4.9 GB	18/06/2022	5.0331	10052	SH
4	N33	SERVER2_DDSa	2			2	✔	30/07/2021	323	✔	18/06/2022	0	24.1 GB	17.7 GB	18/06/2022	5.0331	10046	R/
5	N25-PC	SERVER2_DDSa	2			2	✔	23/04/2021	421	✔	18/06/2022	0	12.3 GB	25.5 GB	18/06/2022	5.0331	10029	G...I
6	N4	SERVER2_DDSa	2			2	✔	20/04/2021	424	✔	18/06/2022	0	111.8 GB	242.7 GB	18/06/2022	5.0331	10040	SE
7	N37	SERVER2_DDSa	2			2	✔	24/06/2021	359	✔	18/06/2022	0	12.2 GB	11.8 GB	18/06/2022	5.0331	10077	US
8	N16	SERVER2_DDSa	1			1	✔	14/03/2022	96	✔	18/06/2022	0	60.5 GB	453.2 MB	18/06/2022	5.0331	10069	AI...A
9	N39	SERVER2_DDSa	1			1	✔	30/04/2021	414	✔	18/06/2022	0	14.5 GB	19.4 GB	18/06/2022	5.0331	10095	S/
10	N9	SERVER2_DDSa	1			1	✔	03/05/2021	411	✔	18/06/2022	0	16.2 GB	11.7 GB	18/06/2022	5.0331	10024	AI
11	N96	SERVER2_DDSa	1			1	✔	12/04/2021	432	✔	18/06/2022	0	12.9 GB	18.1 GB	18/06/2022	5.0331	10053	AI
12	N91	SERVER2_DDSa	1			1	✔	03/05/2021	411	✔	18/06/2022	0	16.3 GB	42.2 GB	18/06/2022	5.0331	10060	K/
13	N5	SERVER2_DDSa	2			2	✔	19/04/2021	425	✔	18/06/2022	0	44.2 GB	124.9 GB	18/06/2022	5.0331	10009	M
14	N94	SERVER2_DDSa	1			1	✔	19/04/2021	425	✔	18/06/2022	0	62.2 GB	70.8 GB	18/06/2022	5.0331	10072	M
15	N3	SERVER2_DDSa	2			2	✔	21/06/2021	362	✔	18/06/2022	0	10.6 GB	16.3 GB	18/06/2022	5.0331	10031	VI
16	N111	SERVER2_DDSa	2			2	✔	11/03/2022	99	✔	18/06/2022	0	10 GB	17.7 GB	18/06/2022	5.0331	10010	R:
17	N34	SERVER2_DDSa	2			2	✔	29/09/2021	262	✔	18/06/2022	0	19.1 GB	13.5 GB	18/06/2022	5.0331	10055	RI
18	N27	SERVER2_DDSa	1			1	✔	20/04/2021	424	✔	18/06/2022	0	44.8 GB	46.8 GB	18/06/2022	5.0331	10028	S/
19	N124	SERVER2_DDSa	2			2	✔	23/04/2021	421	✔	18/06/2022	0	1.9 GB	2.9 GB	18/06/2022	5.0331	10008	PF...IESH
20	N11	SERVER2_DDSa	2			2	✔	12/04/2021	432	✔	18/06/2022	0	29.2 GB	23.5 GB	18/06/2022	5.0331	10039	NI
21	N22	SERVER2_DDSa	2			2	✔	04/04/2022	75	✔	18/06/2022	0	41.4 GB	4 GB	18/06/2022	5.0331	10025	SU
22	N129	SERVER2_DDSa	1			1	✔	12/04/2021	432	✔	18/06/2022	0	45.3 GB	80.9 GB	18/06/2022	5.0331	10050	KC
23	N109	SERVER2_DDSa	2			2	✔	12/04/2021	432	✔	18/06/2022	0	1.9 GB	33.3 GB	18/06/2022	5.0331	10057	A.
24	N21	SERVER2_DDSa	2			2	✔	21/04/2021	423	✔	18/06/2022	0	21.6 GB	36.4 GB	18/06/2022	5.0331	10062	AL...AB
													2790.2 GB	**2816.4 GB**				

Activate Windows
Go to Settings to activate Windows

- **Profiles**: Columns giving details of the Setup of this machine.

- **Full Backup Status**: Information about the Full Backup

- **Latest Backup Status**: Information about the Last Backup which should match with Last Connected.

- **Backup Size**: Size occupied on Disk of Full and Increments.

DSafeServer | Network Status:

Reports the overall status of the End Points within your DSafe Installation. Most of the Maintenance activity is handled from here.

Most importantly you will get to know the machines not connected and days not connected.

You can also get to know the machines whose versions are not up to date.

By Clicking on *Clean up Old Machines,* you can delete redundant machines.

DSAFE
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Network Status   Demo Industries Limited

Machine List | Disk Details

Search 🔍

	Name	Is Cntd.	Profiles	Is Dest	Time Difference Days	hh:mm	Version	Days Not Connected	Started On	Srv	Trf	Dst	Usr	User	IP Address	LAN/WAN	Machine ID	Srv.
1	V	✔	2				5.0331		01/01/20	Yes	Yes	Yes	No	KA AA	1 13	LAN	10421	N
2	V	✔	2				5.0331	1	06/05/20	Yes	Yes	Yes	No		1 L	WAN	10477	N
3		✔	1				5.0331	1	02/07/20	Yes	Yes	Yes	No	SU	1 99	WAN	10068	N
4	K SRV	✔				01 Min	5.0331	1	27/07/20	Yes	Yes	Yes	No		1 11	WAN	10307	Y
5	D	✔	1				5.0331	1	01/02/20	Yes	Yes	Yes	No	DS	1 51	LAN	10001	Y
6	K 2	✔	3			02 Min	5.0331	1	22/07/20	Yes	Yes	Yes	No	PA	1 12	WAN	10279	N
7		✔	1				5.0331	1	02/07/20	Yes	Yes	Yes	No	SA	1 53	WAN	10055	N
8		✔	1			02 Min	5.0331	1	26/11/20	Yes	Yes	Yes	No	CC	1 48	WAN	10396	N
9		✔	2				5.0331	1	03/07/20	Yes	Yes	Yes	No	EL	1 14	WAN	10129	N
10		✔	1			02 Min	5.0331	1	09/05/20	Yes	Yes	Yes	No		1 0	WAN	10480	N
11	D	✔				03 Min	5.0331	1	08/09/20	Yes	Yes	Yes	No		1 15	WAN	10349	N
12	F	✔	1			02 Min	5.0331	1	06/05/20	Yes	Yes	Yes	No		1	WAN	10476	Y
13		✔	2				5.0331	1	03/07/20	Yes	Yes	Yes	No	SC	1 31	WAN	10094	N
14	F RD	✔	1			03 Min	5.0331	1	09/06/20	Yes	Yes	Yes	No		1 12	WAN	10494	Y
15		✔	2			03 Min	5.0331		02/07/20	Yes	Yes	Yes	No	SA	1 29	LAN	10054	N
16		✔	2			03 Min	5.0331	1	02/06/20	Yes	Yes	Yes	No	M NT	1 21	WAN	10489	N
17	K 2	✔	3			01 Min	5.0331	1	22/07/20	Yes	Yes	Yes	No	AF	1 14	WAN	10289	N
18		✔	3			01 Min	5.0331	1	22/07/20	Yes	Yes	Yes	No	AI	1 51	WAN	10281	N
19		✔	2			03 Min	5.0331		12/07/20	Yes	Yes	Yes	No	KI	1 12	LAN	10218	N
20	C		2				5.0331	1	02/12/20	Yes	Yes	Yes	No	DU A	1 74	LAN	10400	N
21	C		2				5.0331	1	07/10/20	Yes	Yes	Yes	No	TA	1 73	WAN	10373	N
22	C		1				5.0331	1	04/01/20	Yes	Yes	Yes	No	PP IL	1 31	WAN	10429	N
23	A		2			02 Min	5.0331	1	10/08/20	Yes	Yes	Yes	No	KA	1	WAN	10313	N
24	E		1				5.0325	5	07/05/20	Yes	Yes	Yes	No			LAN	10478	Y
25			2				5.0331	1	27/01/20	Yes	Yes	Yes	No	AF	1 32	WAN	10450	N
26			2				5.0331	1	30/09/20	Yes	Yes	Yes	No	Tl ___	192.168.15.76	WAN	10367	N

☑ Pause Refresh   Legends   Clean Up Old Machines   [Refresh]

The following Tab page will give you the details of the Drives of that machine.

You will also get to know the Work Drives. Kindly check that the work drives are not temporary Drives.

If needed to be changed it has to be changed from ***DSafeClient |Tools | Configuration***.

Network Status

Machine List | Disk Details

Search

	Name	Drive Letter	Disk Total Size	Disk Free Size	Size Used By DSafe	Work Drive	Dest Drive	System-Data Drive	File System
1	A-TT-001	D	276 GB	129.9 GB		Y		Y	NTFS
2	A- 01	E	100 GB	23.4 GB					NTFS
3	A- 01	C	99.1 GB	14.8 GB					NTFS
4	BC V	D	350 GB	345.3 GB		Y		Y	NTFS
5	BC V	C	100.7 GB	42.8 GB					NTFS
6	CE 01	C	214.6 GB	96.4 GB					NTFS
7	CE 01	D	250 GB	226.7 GB		Y		Y	NTFS
8	CE 02	D	368.1 GB	344 GB		Y		Y	NTFS
9	CE 02	C	97.6 GB	36.6 GB					NTFS
10	CE 03	D	368.1 GB	357.1 GB		Y		Y	NTFS
11	CE 03	C	96.9 GB	32.6 GB					NTFS
12	CE 04	C	119.4 GB	76.5 GB		Y		Y	NTFS
13	CE 04	D	345.6 GB	326.7 GB		Y		Y	NTFS
14	CE 05	D	345.6 GB	258.3 GB		Y		Y	NTFS
15	CE 05	C	119.5 GB	62.7 GB		Y		Y	NTFS
16	CE 06	D	365.8 GB	286.1 GB		Y		Y	NTFS
17	CE 06	C	99.4 GB	46.3 GB					NTFS
18	CE 07	D	178 GB	63.7 GB					NTFS
19	CE 07	C	119.4 GB	76.3 GB		Y		Y	NTFS
20	CE 08	C	97.1 GB	57.8 GB					NTFS
21	CE 08	D	368.1 GB	356.8 GB		Y		Y	NTFS
22	CE 09	D	368.1 GB	153.9 GB		Y		Y	NTFS
23	CE 09	C	97.6 GB	40.2 GB					NTFS
24	CE 10	D	731.4 GB	692.4 GB					NTFS
25	CE 10	C	199.5 GB	143.9 GB		Y		Y	NTFS
26	CE 11	D	467.3 GB	311.6 GB					NTFS

☑ Pause Refresh   Legends   Clean Up Old Machines   Refresh

DSAFE
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DSafe5: Standard Operating Procedures

(This document assumes that DSafe is Setup and Running as per the Setup Instructions)

Checking health of the backups

Daily operations

➢ *DSafeServer | View Backup Logs* or **Email Backup Logs**: Either of these will indicate how the backups performed the earlier day.
➢ The *Legends* link in *View Backup Logs* will list out and explain the various Remarks that may appear in the report.
➢ All reports can be saved to CSV format
➢ Few critical reports can be saved as PDF.
➢ All Reports have option of Sort the Columns by clicking the Column headings.
➢ All Reports have option to Filter using Search.

Fortnightly Operations

➢ *DSafeServer | MIS reports | Backup Status*: This report will give you the best overall understanding of the backups.
➢ Pick out any random machine and Restore its data to confirm that reports are matching with the actual restore.
➢ Check out the *DSafeServer | Network Status:* This report defines the overall connectivity with the DSafe End Points.

Yearly Operations

For yearly subscriptions that are about to expire, you will find in DSafeServer a message indicating the same. Please connect DSafe Team at that time.

Check of the Cloud Providers Subscriptions if they are renewed.

Data Restore

By default, each user is able to Restore his own data, unless restricted by the DSafe Administrator. IT person knowing the DSafe password can Restore data from any machine. In case there is a User-level password then only the User can restore.

Installing DSafe on an End Point

If a new Machine has to be included into DSafe, you need to run the DSafeClientSetup.exe which is Located in C:\Program Files\DSafe5\SetupFiles\. The Backup Profiles will be Created Automatically. You need to Enable them. Just in case there are multiple destinations then you need to select the correct Destination from *DSafeServer | Backup Profile Entry.*

Re-Installing DSafe on End Point

Before formatting a DSafe Client Machine uninstall DSafe. You will be asked if you want to backup the system files. This backup is important for you to continue post formatting without Refresh of the backup. After Formatting check that the machine name is yet the same as it was earlier and install DSafe as if *New Machine to be added*. After that run *Tools | Restore System Data* from where you had earlier maintained the backup.

If existing user is getting a New Machine: Uninstall DSafe from the old machine. You will be asked if you want to backup the system files. This backup is important for you to continue without Refresh of the backups. Rename New Machine to the Older Machine Name (Rename Older machine too). Install DSafe in the new machine. After that run *Tools | Restore System Data* from where you had earlier maintained the backup.

In case you were unable to take the backup before formatting due to Machine Crash or Virus infection etc. then just see that before reinstalling DSafe on the Renewed machine the name is Setup to the Earlier Name.

Extra Machines to be Deleted

DSafeServer | Network Status will report *Days Not Connected*, upon Sorting this Column, you will understand which are the Redundant Machines, those need to be deleted. This maintenance ensures that all machines showing up in the logs are actively being backed up. It also helps DSafe Team pick out machines that need attention.

Local Destination getting Full

You can use the *Tools | Maximise Destination Space* to Retain just one Set of the backup and also pull out any unnecessary folders. You will not lose any data doing this, but there is a chance you may lose Point in time Restore for any Fresh Recently Backup Sets.

DSAFE
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Important Notes and Best Practices.

- To avoid Ransomware/Virus attack on the DSafe Destination/Server machine:
  - Do not share any file/folder/drive. Do not access another machine from DSafe Destination/Server machine. Only access via DSafe
  - Use only for DSafe.
  - Do not download any harmful files/email attachments. Never use Pen drives etc.
  - If exposed to the WAN open only ports needed by DSafe. Recommended to have an additional physical firewall layer.
- To ensure Backups are taking place at least one person in your organization should monitor the backup logs on daily basis and also keep a watch on the Free Space on Destination Drive/s. Monitoring can be done via email logs too.
- It is highly recommended to randomly restore your backups once a month to assure yourself of the correctness of the backup. It is important practice to detect media errors etc., at an early stage.
- It is recommended to have a Disaster Recovery Destination too if possible.
- Before formatting a DSafe machine you must uninstall DSafe. At that time, you will be given an option to backup DSafe System data. This data is important for continuing your backups without refresh upon re-installation. After re-installation you may restore this DSafe System data via 'Tools | Restore System Data'.
- It is necessary to keep the DSafe version updated especially upon change of Minor Version.
- Local Destination is best option for speed and Security. In case there are remote machines you will need to make the IP public.
- Shared NAS is not recommended option for destination, this is kept for legacy support only. NAS can be used efficiently with FTPS option.
- Depending upon your Network speeds, optimize 'Maximum Simultaneous Copy' so as to avoid Network Jams.
- You need to check 'Default Excludes' to know which files/patterns will be excluded from backups.
- Destination machines have to remain connected to the DSafe Server machine always. Client machines need to connect once in 10 days at least.
- For Cloud Destinations being synced with a Machine there is always a chance of User / Another Program deleting the DSafeBack Folder/Files. Necessary precaution has to be taken by you as same may get synced to the DSafe Backup on the Cloud.
- Check Network Status for Work Drive & System Data Drive, change if necessary.
- Note that Microsoft Onedrive/ Sharepoint maximum single file size is 100GB.
- Onedrive/Sharepoint Upload should be completed within 24 hours per file, failing which resume option will expire.
- Onedrive/Sharepoint Needs Authentication every 90 days, kindly Re-Authenticate in DSafe too.