Introducing Veritas™ System Recovery Manager

This section includes the following topics:

About Veritas System Recovery 22 Manager

Veritas System Recovery Monitor is re-branded as Veritas System Recovery Manager. It is an extremely simple, standalone, lightweight and easy to manage and monitor the remote computers. Veritas System Recovery Manager helps you determine the backup protection status of the remote computers that you backed up using Veritas System Recovery Windows and Linux clients. It allows you to Create, Edit, Apply, View, Run, and Delete backup jobs to the remote Veritas System Recovery Windows computers and only allows you to monitor the backup protection status of Veritas System Recovery Linux clients.

The Veritas System Recovery Manager application lets you do the following:

- Manage and Monitor the backup protection status for a maximum of 1000 remote computers at a time.
- Refresh any of the computers in the All computers to view the latest protection status. You can also configure an hourly refresh interval for the remote computers.
- Create, Edit, Apply, View, Run, and Delete backup jobs to the remote Veritas System Recovery Windows computers.
- Monitor the backup protection status of Veritas System Recovery Linux clients.

See Starting Veritas System Recovery Manager.

See Icons on the Veritas System Recovery Manager console.

See Adding a remote computer to All Computers.

Getting Started

This section includes the following topics:

Configuring Windows firewall exceptions for Veritas System Recovery Manager

Before you start Veritas System Recovery Manager, configure the Windows firewall program and port exceptions on both the host computer and the client computer.

To configure Windows firewall port exceptions

1. Click **Start > Run**, and type firewall.cpl.
2. On the left-pane, click **Advanced Settings**.
3. Select the **Inbound Rules** option.
4. On the left-pane, click **New rule**.
5. Perform the following steps to configure the Windows firewall port exceptions:
    - Under Rule Type, select the **Port** option.
    - Click **Next**.
    - Select the **TCP** option.
    - Select the **Specific local ports** option.
    - In the Specific local ports field, enter 135 as the default port number.
    - Click **Next**.
    - Select the **Allow the connection** option.
    - Click **Next**.

Do not modify the default settings.

- Click **Next**.
- In the Rule field, specify a name for the rule.
- Click **Finish**.

1. Perform the following steps to configure the Windows firewall program exceptions:

- Under Rule Type, select the **Program** option.
- Click **Next**.
- Select the **This Program Path** option.
- For Veritas System Recovery, browse to the following location where `Vprosvc.exe` is installed:

Default path:

C:\Program Files\Veritas\Veritas System Recovery\Agent\Vprosvc.exe

Custom path:

<\<Veritas System Recovery installation path\>>\Agent\Vprosvc.exe

- Click **Next**.
- Select the **Allow the connection** option.
- Click **Next**.

Do not modify the default settings.

- Click **Next**.
- In the Rule field, specify a name for the rule.
- Click **Finish**.

See About Veritas System Recovery 22 Manager.

Starting Veritas System Recovery Manager

Veritas System Recovery Manager is installed in the Windows All Programs menu. During installation, a program icon is installed in the system tray from which you can open Veritas System Recovery Manager. You can also open Veritas System Recovery Manager from the Windows taskbar.

To start Veritas System Recovery Manager

- On the Windows taskbar , click **Start > All Programs > Veritas System Recovery Manager > Veritas System Recovery 22 Manager.**

The Veritas System Recovery Manager console appears.

See Icons on the Veritas System Recovery Manager console.

Icons on the Veritas System Recovery Manager console

The following table describes the icons on the Veritas System Recovery Manager console:

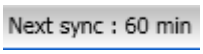
Table: About the Veritas System Recovery Manager console icons

ICON	TITLE	DESCRIPTION
	View Options	Lists shortcuts to access most of the commonly used features of Veritas System Recovery Manager application, such as Add Computer, Import Computers, Export, Manage targets, Settings and Help.
	Add new computer	Adds a remote computer to the Computer List that displays in the Backup Status pane.
	(Ctrl + N)	See Adding a remote computer to All Computers .
	Import Computers (Ctrl + I)	Imports a text file to add multiple remote computers. This text file contains the IP addresses of both Windows and Linux remote computers.
		See Adding a remote computer to All Computers .

ICON	TITLE	DESCRIPTION
	Export (Ctrl + X)	Exports the Protection Status report for the selected computers on the Veritas System Recovery Manager console in an HTML or in a CSV format.
		See Viewing the Protection Status report .
	Manage Targets	Lets you view the default targets and create, edit and remove the custom targets.
	Application settings	Opens the Settings pane and configure the Veritas System Recovery Manager default options.
	(Ctrl + S)	See Configuring Veritas System Recovery Manager default options .
	Help (F1)	Accesses the Veritas System Recovery Manager's Help system.
	Exit (Alt + F4)	Closes the Veritas System Recovery Manager console.
	Search	Searches a remote computer from the Computer List.
	At Risk	Indicates that no drive-based backup policy has been created for the computers that appear in the Computer List.
		The drives, files, or folders of these computers are

ICON	TITLE	DESCRIPTION
		unprotected and cannot be recovered and are at risk.
	Need Attention	Indicates that\:
		- A drive-based backup policy for the computers that appear in this Computer List was defined. However, the policy has not run recently or the computers are not assigned to the defined backup policy.
		- Some computers can be recovered, however, if the recovery points are outdated, they may not contain the latest version of your data.
	Unknown	Indicates that the backup protection status of the computers in the Computer List is not known. This status may appear if the Veritas System Recovery Manager cannot connect to the remote computer due to the following issues\:
		- Network connectivity issues
		- Firewall issues
		- Incorrect user name or password
	Backed up	Indicates that a drive-based backup policy was created and it runs on a regular basis. All the drives, files, and folders of the remote

ICON	TITLE	DESCRIPTION
		computers are protected and can be recovered, if necessary.
	Computer Details	Opens the Computer Details pane. The Computer Details pane displays a summary of the backup protection status for the selected remote computer.
		See Viewing the backup protection status of a remote computer .
	Remove Computer (Delete)	Removes a remote computer from the Computer List.
		See Removing a remote computer from the All Computers .
	Refresh Protection Status (Ctrl + R)	Manually refresh the Backup Status pane to see the latest backup protection status for the Computer List.
		You can also select an individual computer from the Computer List and select refresh to see the latest backup protection status.
	View Console	Lets you manage and monitor the remote computers and view the backup protection status in the Veritas System Recovery application. You are not required to enter the command line parameters or

ICON	TITLE	DESCRIPTION
		user credentials to connect to the remote computer.
		Note: View Console does not appear for Veritas System Recovery Linux edition.
	Edit Computer (Ctrl + E)	Modifies the logon credentials for the remote computers.
		See Modifying the logon credentials for the remote computers .
	Backup Tasks	Lets you view, run or delete a backup job for an individual client computer.
	Next Synchronization Time	Displays the time in minutes that remains for the next automatic refresh.

See Configuring Veritas System Recovery Manager default options.

See Adding a remote computer to All Computers.

Configuring Veritas System Recovery Manager default options

The Settings pane lets you configure the Veritas System Recovery Manager default options. The following table describes the options on the Settings pane.

To view the Settings pane

1. Do one of the following:
   - On the Veritas System Recovery Manager console, click the View Options icon and then click Settings.
   - On the Veritas System Recovery Manager console, click the Application settings icon.
2. On the Settings pane, configure the default options.

See Adding a remote computer to All Computers.

Table: Configure the Veritas System Recovery Manager default options

SETTINGS	DO THE FOLLOWING
Always on Top	Select the check box to display the Veritas System Recovery Manager application on the top of the other Microsoft Windows applications.
Save window location on exit	Select the check box to save the location of the console when you close the application. When you launch the application again the console displays in the location you saved.
Start with window OS	Select the check box to automatically start the Veritas System Recovery Manager application with the Microsoft Windows operating system. When you log on to Microsoft Windows, Veritas System Recovery Manager automatically starts, manage and monitor the remote computers.
Auto Refresh	Select the check box to enable the automatic refresh Veritas System Recovery Manager.
Refresh interval minutes	You can modify the refresh interval. Ensure that the interval value must be between 60 min to 720 min.
Port Number	If you are not using the default port number 4443, use any Custom port number and click Save .
Domain Account and Password	Select the check box if you want to access, manage and monitor a group of remote computers available in a domain account or an Active Directory.

SETTINGS	DO THE FOLLOWING
Username: (Domain\username)	Enter the global account name in the format . For example, Veritas\IMG.
Password	Enter the password.
Confirm Password	Retype the password.
Save	To store the Veritas System Recovery Manager default options, click Save .

Viewing Veritas System Recovery Dashboard

This section includes the following topics:

Viewing Veritas System Recovery Dashboard

Viewing Veritas System Recovery Dashboard

On opening Veritas System Recovery Manager, a dashboard page appears. Dashboard gives glimpse of remote Veritas System Recovery Windows and Linux client's status based on different category on a single page.

Dashboard shows overall count of remote computer based on Veritas System Recovery Windows and Linux client's backup protection status.

Table: Overall Status of Computers

ITEMS	DESCRIPTION
Total Computer	Total Veritas System Recovery Windows and Linux computer count that are monitored by Veritas System Recovery Manager.
Backed Up	All computers whose critical drive is backed up using Veritas System Recovery Windows and Linux.
Attention Needed	All computers whose critical drive could not be backed up using Veritas System Recovery Windows and Linux and need user attention.
At Risk	All computers whose critical drive is not backed up using Veritas System Recovery Windows and Linux.

ITEMS	DESCRIPTION
Unknown	All Windows and Linux computers which are not responding to Veritas System Recovery Manager.

Dashboard shows graphical representation of all Windows and Linux remote computers based on following category. Each legend in the graphical representation is clickable and a window with detailed information regarding the remote computers opens.

- Computer Backup Status - Displays all remote Veritas System Recovery Windows and Linux computer's protection status count graphically.
    - Backed Up
    - Attention Needed
    - At Risk
    - Unknown
- Version of remote Veritas System Recovery - Displays all remote Veritas System Recovery Windows and Linux client's versions.
    - All supported version of Veritas System Recovery Windows and Linux based on current Veritas System Recovery Manager version.
- License Status of Veritas System Recovery - Displays all remote Veritas System Recovery Windows and Linux client's License Status count graphically
    - Activated
    - Expired
    - Trial Period
    - Unknown
- Platform of remote Veritas System Recovery - Displays all remote Veritas System Recovery Windows and Linux client's Platforms.

Managing a remote computer

This section includes the following topics:

Adding a remote computer to All Computers

Before you can manage and monitor the backup protection status for a remote computer, you must add the remote computer to All Computers.

To add remote computers to All computers

1. On the Veritas System Recovery Manager console, under **View Options**, click**Add Computer**.

See Icons on the Veritas System Recovery Manager console.

1. In the Hostname or IP address field, type the name or the IP address of the computer that you want to add.

For more information about controlling access to the Veritas System Recovery, see the *Veritas™ System Recovery User's Guide.*

1. In the Username field, type the user name for an account that has appropriate permissions to access the backup protection status of the computer.
2. In the Password field, type the password for the user account.
3. In the Confirm Password field, type the password again to confirm it.
4. Click **Add**.

> “ ”

Note: Select theCheck for Linux Machinecheck box if you are using Linux computer.

> “ ”

See Modifying the logon credentials for the remote computers.

To add multiple remote computers to All Computers, you can import a text file that contains the IP address of all the Windows and Linux remote computers.

To import a text file

1. Select and configure the domain account and password in the Settings pane. See Configuring Veritas System Recovery Manager default options.
2. Create a text file that contains the IP addresses of the both Windows and Linux remote computers that you want to manage and monitor.

   > “ ”

   Note: In the text file, you should provide in the following format "IP address, 0" for Windows computer and "IP address, 1" for Linux computer.

   > “ ”

For e.g.

xx.xx.xx.xx,0

yy.yy.yy.yy,0

zz.zz.zz.zz,1

1. On the Veritas System Recovery Manager console, click **Import Text file to add multiple Computers**.
2. Browse to select the text file that contains the IP addresses of the remote computers.
3. Click **OK**.

Importing a text file to add multiple remote computers to All Computers

To add multiple remote computers to All Computers, you can import a text file that contains the IP address of all the remote computers.

See Adding a remote computer to All Computers.

See Modifying the logon credentials for the remote computers.

See Viewing the backup protection status of a remote computer.

Before you import a text file, you must ensure that you do the following:

- Select and configure the domain account and password in the Settings pane. See Configuring Veritas System Recovery Manager default options.
- Create a text file that contains the IP addresses of both Windows and Linux remote computers that you want to manage and monitor.

To import a text file

1. On the Veritas System Recovery Manager console, click **Import Text file to add multiple Computers**.
2. Browse to select the text file that contains the IP addresses of the windows and Linux remote computers.
3. Click **OK**.

Searching a remote computer from All Computers

You can search a remote computer from the All Computers using the Search bar that is available at the top-right corner of the Veritas System Recovery Manager console.

To search a remote computer from the All Computers

1. In the Search bar, type the whole or partial name for one of the following:
    - Host computer name
    - Activity names:

For windows computer: Connecting, Connection failed, Sync pending and View Console.

For Linux computer: Connecting, Connected, Connection failed and Sync pending.

- Last Run date or time
- Username
- License
- Version

- Platform

1. Click **Search**.

See Viewing the backup protection status of a remote computer.

See Viewing the Protection Status report.

Modifying the logon credentials for the remote computers

You can modify the logon credential for the selected remote computer from the All Computers.

To modify the logon credentials for the remote computer

1. On the Veritas System Recovery 22 Manager console, select the remote computer from the **All Computers** .
2. Right click and select **Edit Computer**.
3. In the Hostname or IP address field, modify the host computer name or the IP address of the host computer.
4. In the Username field, modify the user name for an account that has necessary permissions to access the backup protection status of the computer.
5. In the Password field, modify the password for the user account.
6. In the Confirm Password field, retype the modified password for the user account.

   > “ ”

   Note: Select theCheck for Linux Machinecheck box if you are using Linux computer

   > “ ”

See Adding a remote computer to All Computers.

Running or Deleting Backup Jobs for the Remote computers

You can run or delete Backup Jobs for any selected computers when the Backup Jobs are configured.

> “ ”

Note: The Backup Tasks option is available only for Windows computers and for Linux computers only Monitoring can be performed.

> “ ”

To run Backup Job for a remote computer from All Computers

1. On the Veritas System Recovery Manager console, select **All Computers**.
2. Select a computer for which you want to perform Backup Job, Right click and select **Backup Tasks.**

The Backup Tasks window appears.

1. Select any Backup Name and click **Run**.

To delete Backup Job for a remote computer from All Computers

1. On the Veritas System Recovery Manager console, select **All Computers**.
2. Select a computer for which you want to delete Backup Job, Right click and select **Backup Tasks.**

The Backup Tasks window appears.

1. Select the required Backup Names and click **Delete**.

   > “ ”

   Note: If you want to Delete backup Job for multiple Backup Names, Ctrl + click the Backup Names and clickDelete.

   > “ ”

Removing a remote computer from the All Computers

You can remove remote computers from All Computers.

To remove a remote computer from All Computers

1. On the Veritas System Recovery Manager console, select the remote computer that you want to remove.

> “ ”

Note: If you want to remove multiple computers,Ctrl+ click the remote computers in theAll Computersand pressDeletekey.

> “ ”

2. Click **Remove Computer.Deleted computer disappears from theAll Computers**.

See Adding a remote computer to All Computers.

Monitoring the backup protection status of a remote computer

This section includes the following topics:

Viewing the backup protection status of a remote computer

After you add a remote computer to All Computers, Veritas System Recovery Manager does the following:

- Automatically monitors the remote computer.
- Displays a Computer List where all remote computers can be viewed under the following protection status category:
  - Backed Up
  - Attention Needed
  - At Risk
  - Unknown
- Lets you view the backup protection status of an individual remote computer.
- Lets you view the reason or detailed information, if the remote computer that you monitor is displayed under the following protection state category:
  - At Risk
  - Attention Needed
  - Unknown

The Computer Details pane lets you view the detailed information about the monitored backup protection status for the remote computer.

To view the details of a remote computer

1. On the Veritas System Recovery Manager console, select a remote computer from the **All Computers**.
2. Right-click and select **View Computer Info**.

Computer Details window appears.

1. Click **Computer Details**.

Refer to the below table to view the detailed information about Monitoring backup protection status of the remote Computers:

LAST UPDATED TIME	DISPLAYS THE LAST TIME, WHEN VERITAS SYSTEM RECOVERY MANAGER ACCESSED THE COMPUTER TO CHECK THE PROTECTION STATUS.
VSR Version	Displays the version of the Veritas System Recovery application.
OS Version	Displays the operating system version of the remote computer, for which the backup protection status is monitored.
License	Displays the License status of the product.
State	Displays the backup protection status of the computer.
Reason	Specifies the reason for the protection state.

See Icons on the Veritas System Recovery Manager console.

The View Console functionality lets you monitor a remote computer and view the backup protection status in the Veritas System Recovery application. You are not required to enter the command line parameters or user credentials to connect to the remote computer.

> “ ”

Note: TheView Consoleoption is available only for Windows computers and in Linux computers it will be shown as connected.

> “ ”

See Adding a remote computer to All Computers.

See Viewing the Protection Status report.

To view the backup protection status for a remote computer in the Veritas System Recovery

1. On the Veritas System Recovery Manager console, select a remote computer from the **All Computers**.
2. Click **View Console**.

Viewing the Protection Status report

The protection status report provides detailed information about the backup protection status for all the remote computers that are backed up with Veritas System Recovery Windows and Linux. You can export the protection status report to one of the following formats:

- Hypertext Markup Language (HTML)
- Comma Separated Value (CSV)

See Icons on the Veritas System Recovery Manager console.

See Adding a remote computer to All Computers.

See Removing a remote computer from the All Computers.

To export and view the protection status report

1. On the Veritas System Recovery Manager console, under **View Options**click**Export**.
2. From the list of exportable data formats, select **HTML**or**CSV**.
3. Click **Export computer information to a File**.
4. In the Save As window, enter the file name and location where you want to export the report.
5. Click **Save**.

Managing the Backup Tasks from Veritas System Recovery Manager

This section includes the following topics:

About Backup Tasks

You can create backup jobs to automate the creation of recovery points by using a daily, weekly, or monthly schedule. This method is useful if you want to create recovery points of managed client computers during off-hours when you are not present or if you want to create a recovery point set without interrupting the normal flow of work. If you create a recovery point set, you can also specify that certain events, like logging on or off of a computer, create incremental recovery points.

By default, file names for scheduled independent recovery points or recovery point sets are appended with 001.v2i, 002.v2i, and so forth. File names for incremental recovery points within a recovery point set are appended with _i001.iv2i, _i002.iv2i, and so forth. For example, if your base recovery point were called C_Drive001.v2i, the first incremental recovery point would be called C_Drive001_i001.iv2i.

The name of the computer (where the backup occurs) is always appended to the recovery point file name.

Each backup jobs that you create is added to the Backup Tasks tree of the product.

You implement a backup jobs by doing the following:

- Create Backup Tasks.

You specify what to back up, the backup destination where the resulting recovery points are stored, and when to run the backup (scheduled or manually).

- Edit any of the properties and options of a backup jobs, except the backup type.
- Apply backup jobs to one or more remote computer.
- Delete a backup job from the Veritas System Recovery Manager console.

You can also specify the compression levels of recovery points, enable encryption and password protection. Many other options are available that let you customize each backup according to your business needs.

The client computer must be turned on to create a recovery point at the scheduled time. However, Veritas System Recovery Manager does not need to be open for the backup to take place. Also, a remote user does not need to be logged on to the managed client computer. However, Windows must be started on the computer.

To verify that a backup completed as scheduled, you can use the All computers option to check the backup protection status of a remote computer.

> “ ”

Note: Veritas System Recovery Manager supports saving backups to a network share or a local drive on a client computer as a backup destination.

> “ ”

This section also includes the following topics:

See Recovery Point Set and Independent Recovery Point in backup job

See Tips for creating recovery points

Recovery Point Set and Independent Recovery Point in backup job

The following table describes the advantages and disadvantages of scheduled recovery point or independent recovery points sets as part of your backup jobs.

> “ ”

Warning: If you are choosing Recovery Point Set backup the full recovery point and all associated incremental recovery points that make up the recovery point set must be kept together in the same

folder. If there are missing files, the recovery point becomes invalid and you cannot restore the data.

> “ ”

Table: Backup Types

TYPE	DESCRIPTION
Recovery point set	Consider the following when you create recovery point sets.
	- A recovery point set is the same as an Independent recovery point except that it also has incremental tracking enabled for the selected drive.
	- This type of backup creates a base recovery point. Additional recovery points are created but save only the hard disk sectors that have changed since the creation of the base recovery point or the previous incremental recovery point.
	- Incremental recovery points are created faster than the first (base) recovery point and use less storage space than an independent recovery point.
	- Recovery point sets are ideal when you combine them with a schedule.
Independent recovery point	Consider the following when you create independent recovery points.
	- An independent recovery point creates a complete, independent copy of the entire selected drive.
	- An independent recovery point is not associated with incremental recovery points or recovery point sets in any way. As such,

TYPE	DESCRIPTION
	independent recovery points stand on their own and are usually a less complicated method for protecting your computer than recovery point sets. You can create an independent recovery point of a drive even if that drive is tracked with a recovery point set.
	- This backup type typically requires more storage space on a hard disk than a recovery point set.

Tips for creating recovery points

The following information may help when you create recovery points:

- Veritas System Recovery Manager does not need to be open for a scheduled backup to start or run. Therefore, after you create a backup jobs and assign it to resource targets, you can exit the console. The client computer that you manage, however, must be turned on and Windows must be started.
- All backup jobs are saved in the Veritas System Recovery Manager console so that you can edit or apply to the target later.
- Store recovery points to a network share or to a local drive on the managed client computer other than the primary hard disk C. This practice helps ensure that you can recover the system in the event that the client's primary hard disk fails.
- Avoid the need to run a disk defragmentation program on the managed client computer during the creation of recovery points. Doing so significantly increases the time it takes to create the recovery point, and it may cause unexpected system resource issues on the client computer.
- If you have two or more drives that are dependent on each other, or they are used as a group by a program like a database service, include both drives in the same backup jobs. Back up multiple drives simultaneously by selecting two or more drives in the Create Backup Job window.
- Include multiple drives in the same backup jobs to reduce the total number of backups that must be run.
- Avoid storing recovery points on the Veritas System Recovery computer. As the number or size of recovery points grows, you have less disk space available for regular server use. When you save recovery points to a separate drive or a network location, this problem is eliminated. Also,

if you decide to store recovery points on the client computer, store them to a secondary hard disk. Avoid storing them on the primary hard disk C. This practice helps ensure that you can recover the system in the event that the client's primary hard disk fails.

Creating Backup Jobs

You can automate the creation of recovery points with a daily, weekly, or monthly schedule. If you create a recovery point set, you can also specify that certain events, like logging on or off a computer, create incremental recovery points.

To create a Backup Job

1. On the Veritas System Recovery Manager console, click Manage Computers tab in the left pane.
2. Click **Create** in the Backup Tasks tab.
3. On the Create Backup Job window, select any **Backup Type**.
4. On the Drives panel, set any drive option you want.

ALL DRIVES ON SELECTED COMPUTERS	LETS YOU DEFINE A BACKUP JOB FOR TWO OR MORE DRIVES. YOU SHOULD SELECT THIS OPTION TO PROTECT ALL DRIVES (INCLUDING HIDDEN OR UNMOUNTED), THAT EXIST ON THE CLIENT COMPUTERS.
By Drive	Lets you select the drives that you want to back up on the selected client computers.
	Hidden drives are not displayed in the By Drive list. Also, by checking the Other option, you can add any single drive and also multiple drives by separating with semi-colon. For e.g. E or for multiple drives E;F;G
	Sometimes a selected drive letter is not available for backing up on a particular client computer. The drive has been deleted or the entire hard disk has been removed from the client computer since Veritas System Recovery was installed. In such cases, when

ALL DRIVES ON SELECTED COMPUTERS	LETS YOU DEFINE A BACKUP JOB FOR TWO OR MORE DRIVES. YOU SHOULD SELECT THIS OPTION TO PROTECT ALL DRIVES (INCLUDING HIDDEN OR UNMOUNTED), THAT EXIST ON THE CLIENT COMPUTERS.
	the recovery point is created, it does not include the drive.

5. In the **Destination** pane. Specify the path to a local drive or a network share.

USER NAME	LETS YOU SPECIFY THE USER NAME TO A DESTINATION FOLDER THAT IS LOCATED IN A NETWORK PATH.
Password	Lets you specify the password to a destination that is located in a network path.

6. Veritas recommends that you use AES encryption when you define a backup to prevent unauthorized access to the files.

ENABLE PASSWORD PROTECTION	SETS A PASSWORD AND ENABLES AES ENCRYPTION ON THE RECOVERY POINT WHEN IT IS CREATED.
	THIS CHECK BOX IS SELECTED BY DEFAULT.
Password	Lets you specify a password for the backup. Passwords can include standard characters. Passwords cannot include extended characters, or symbols. (Use characters with an ASCII value of 128 or lower.)
Confirm password	Lets you retype the password for
	confirmation.
AES encryption	Encrypts recovery point data to add another level of protection to your recovery points.

ENABLE PASSWORD PROTECTION	SETS A PASSWORD AND ENABLES AES ENCRYPTION ON THE RECOVERY POINT WHEN IT IS CREATED.
	THIS CHECK BOX IS SELECTED BY DEFAULT.
	Note: If theUse Passwordcheck box is selected, you must define AES encryption.
	Choose from the following encryption levels:
	- Standard 128-bit (8+ character password)
	- Medium 192-bit (16+ character password)
	- High 256-bit (32+ character password)
	While higher strengths require longer passwords, the result is greater security for your data.

7. On the Schedule panel, check the Schedule check box and set the schedule options you want.

The available scheduling options depend on the backup type that you selected.

Schedule tab options for a recovery point set

SCHEDULE	LETS YOU SELECT THE DAYS AND A START TIME FOR WHEN THE BACKUP SHOULD RUN.
Start time (24 hour format)	Lets you customize the start time of the backup .
Sun Mon Tue Wed Thu Fri Sat	Lets you customize the days of the week for the backup to run. The default is to run the backup Monday through Friday.
Run more than once per day	Lets you run the backup more than once a day to protect the data that you edit or change frequently.

SCHEDULE	LETS YOU SELECT THE DAYS AND A START TIME FOR WHEN THE BACKUP SHOULD RUN.
Time between backups	Lets you specify the maximum time that should occur between backups.
Number of times	Lets you specify the number of times per day that the backup should run.
Automatically optimize	Lets you select how often optimization should occur for the backup destination to manage the used disk space.
	You can choose from the following options:
	- Never Indicates that no deletion of incremental recovery points is performed.
	- Every four hours Indicates that a deletion of incremental recovery points that are four hours old (or older) is performed every four hours. Also, after the first incremental of the day is taken, all incremental files from two days previous are consolidated to a single file.
	- Every twelve hours Indicates that a deletion of incremental recovery points that are 12 hours old (or older) is performed every 12 hours. Also, after the first incremental of the day is taken, all incremental files from two days previous are consolidated to a single file.
Start a new recovery point set	Lets you select how frequently a new recovery point set should be started.
	Your options for starting new recovery point set (base) include the following:
	- Weekly Creates a new recovery point set on the first scheduled or manual backup of the week.

SCHEDULE	LETS YOU SELECT THE DAYS AND A START TIME FOR WHEN THE BACKUP SHOULD RUN.
	- Monthly Creates a new recovery point set on the first scheduled or manual backup of the month.
	- Quarterly Creates a new recovery point set on the first scheduled or manual backup every three months from the date when you selected this option.
	- Yearly Creates a new recovery point set on the first scheduled or manual backup of the year, once a year, on the date that you selected for this option.
	- Custom Lets you set specific weekly or monthly options for starting a new recovery point set.
Custom	Lets you customize the start time, and the days of the week or month to run the backup.
	Note: If you choose to archive recovery points, consider creating recovery point sets more frequently to keep the size of your recovery point sets smaller.

Schedule options for an independent recovery point

AUTOMATICALLY CREATE A RECOVERY POINT	LETS YOU SPECIFY A WEEKLY OR MONTHLY BACKUP SCHEDULE.
	THE SCHEDULING OPTIONS INCLUDE THE FOLLOWING:
	- NO SCHEDULE SAVES ALL OF THE BACKUP JOBS SETTINGS EXCEPT A SCHEDULE. YOU CAN LATER APPLY THE BACKUP JOBS AT YOUR CONVENIENCE BY ASSIGNING A SCHEDULE TO THE JOB.
	- WEEKLY CREATES A NEW, INDEPENDENT RECOVERY POINT ON EACH DAY OF THE WEEK THAT YOU CHECK, AND AT THE SPECIFIED TIME. WHEN YOU CREATE INDEPENDENT RECOVERY POINTS ONE OR MORE TIMES PER WEEK, LARGE AMOUNTS OF DISK STORAGE SPACE MAY BE REQUIRED.
	- MONTHLY CREATES A NEW, INDEPENDENT RECOVERY POINT ON EACH DAY OF THE MONTH THAT YOU CHECK, AND AT THE SPECIFIED TIME.
Start time (24 hour format)	Lets you customize the start time of the backup .
Days of the week	Lets you customize the days of the week for the backup jobs to run.
Days of the month	Lets you customize the days of the month for the backup jobs to run.

1. On the Advanced Options panel, in the **Compression** list, set the compression level for the recovery points.

NONE	INDICATES THAT COMPRESSION IS NOT USED ON THE RECOVERY POINT.
	YOU CAN CHOOSE THIS OPTION IF STORAGE SPACE IS NOT AN ISSUE. IF THE RECOVERY POINT IS SAVED TO A BUSY NETWORK DRIVE, HIGH COMPRESSION MAY BE FASTER THAN NO COMPRESSION BECAUSE LESS DATA NEEDS TO BE WRITTEN ACROSS THE NETWORK
Standard (recommended)	Lets you use low compression for a 40 percent average data compression ratio on recovery points. This setting is the default.
Medium	Lets you use medium compression for a 45 percent average data compression ratio on recovery points.
High	Lets you use high compression for a 50 percent average data compression ratio on recovery points. This setting is usually the slowest method.
	When a high compression recovery point is created, CPU usage may be higher than normal. Other processes on the computer may also be slower. To compensate, you can adjust the operation speed of the backup process. Speed adjustments may improve the performance of other resource-intensive applications that you run at the same time.

2. On the Advanced Options panel, use the below options and click **Apply**.

LIMIT THE NUMBER OF RECOVERY POINT SETS (BASES) SAVED FOR THIS BACKUP (RECOVERY POINT SETS ONLY)	**SPECIFIES THE MAXIMUM NUMBER OF RECOVERY POINTS OR RECOVERY POINT SETS THAT ARE SAVED FOR EACH DRIVE.**
OR	**WHEN THIS LIMIT IS REACHED, EACH SUCCESSIVE RECOVERY POINT OR SET IS FIRST CREATED AND STORED. THE OLDEST, PREVIOUSLY CREATED RECOVERY POINT OR SET IS THEN DELETED (INCLUDING ALL ASSOCIATED INCREMENTAL, IF APPLICABLE) FROM THE SAME STORAGE LOCATION.**
LIMIT THE NUMBER OF RECOVERY POINTS SAVED FOR THIS BACKUP (INDEPENDENT RECOVERY POINTS ONLY)	**ENSURE THAT YOU HAVE ENOUGH HARD DISK SPACE TO ACCOMMODATE THE NUMBER OF RECOVERY POINTS OR SETS YOU SPECIFY, PLUS ONE ADDITIONAL RECOVERY POINT OR SET.**
	IF YOU RUN OUT OF HARD DISK SPACE BEFORE THE NUMBER IS REACHED, THE RECURRING RECOVERY POINT PROCESS CANNOT COMPLETE SUCCESSFULLY, AND A CURRENT RECOVERY POINT OR SET IS NOT CREATED
Divide into smaller files to simplify archiving	Splits a recovery point into two or more smaller files. This feature is useful if you create or export a recovery point that you want to copy to removable media later for safekeeping. The recovery point is split into smaller, more manageable files. You can then copy the files onto separate, removable media, such as a DVD or CD.
	If Veritas System Recovery creates an .sv2i file in addition to the .v2i files, you need to save the .sv2i file on the same media as the first .v2i file.
	If you create a recovery point of volumes with thousands of files on a computer that has low memory, splitting the recovery point into smaller segments can help speed the process.

LIMIT THE NUMBER OF RECOVERY POINT SETS (BASES) SAVED FOR THIS BACKUP (RECOVERY POINT SETS ONLY)	**SPECIFIES THE MAXIMUM NUMBER OF RECOVERY POINTS OR RECOVERY POINT SETS THAT ARE SAVED FOR EACH DRIVE.**
OR	**WHEN THIS LIMIT IS REACHED, EACH SUCCESSIVE RECOVERY POINT OR SET IS FIRST CREATED AND STORED. THE OLDEST, PREVIOUSLY CREATED RECOVERY POINT OR SET IS THEN DELETED (INCLUDING ALL ASSOCIATED INCREMENTAL, IF APPLICABLE) FROM THE SAME STORAGE LOCATION.**
LIMIT THE NUMBER OF RECOVERY POINTS SAVED FOR THIS BACKUP (INDEPENDENT RECOVERY POINTS ONLY)	**ENSURE THAT YOU HAVE ENOUGH HARD DISK SPACE TO ACCOMMODATE THE NUMBER OF RECOVERY POINTS OR SETS YOU SPECIFY, PLUS ONE ADDITIONAL RECOVERY POINT OR SET.**
	IF YOU RUN OUT OF HARD DISK SPACE BEFORE THE NUMBER IS REACHED, THE RECURRING RECOVERY POINT PROCESS CANNOT COMPLETE SUCCESSFULLY, AND A CURRENT RECOVERY POINT OR SET IS NOT CREATED
	If a recovery point is divided into multiple files, the file names for subsequent files are appended with _S01, _S02, and so forth. For example, if the default file name were Dev-RBrough_C_Drive.v2i, the second file name would be Dev-RBrough_C_Drive_S01.v2i, and so on.

3. Click **Create**>**Note:** Create button will be disabled if all the required fields are not entered properly.

Editing Backup Jobs

You can edit any of the properties and options of a backup job, except the backup type. Then the backup job can be re-applied on any computers that are in its assigned resource target and also to any new target.

To edit a Backup Job

1. On the Veritas System Recovery Manager console, click Manage Computers tab in the left pane.
2. Select any Backup Job you want to edit and Click **Edit** in the Backup Tasks tab.
3. On the Edit Backup Job window, use the available options and backup properties to make any changes that you want to the backup job.
4. Click **Save**.

Removing Backup Jobs

Removing a backup job removes it only from the console and the backup job remains in the client computer.

To remove a Backup Job

1. On the Veritas System Recovery Manager console, click Manage Computers tab in the left pane.
2. Select any Backup Job you want remove and Click **Remove** in the Backup Tasks tab.

> “ ”

Note: If you want to remove multiple backup jobs, Ctrl + click the backup jobs and ClickRemove.

> “ ”

Applying Backup Jobs

You can apply backup jobs to the resource targets that have Veritas System Recovery installed.

When you apply backup job to resource targets, all of the computers within a given target have the same backup schedule.

> “ ”

Note: If you have two backup jobs, each job has the recovery point set options pointing to the same drives, when the job is assigned to the client computer, the Apply Backup Job operation fails with no generated errors.

> “ ”

To apply a Recovery Point Set backup job in a default or custom target

1. On the Veritas System Recovery Manager console, click Manage Computers tab in the left pane.
2. Select any Backup Job you want to apply to a target and Click **Apply** in the Backup Tasks tab.
3. On the Apply Backup Job window, choose the available default or created custom targets and Click **Apply**.

   > “ ”

   Note: In case the Backup Type is Recovery Point Set. The Apply recovery point set backup job window appears.

   > “ ”

4. Select **Create a new backup job, if it doesn't exist** , to create a new job if there is no existing job present.

   > “ ”

   Note: Apply backup job will fail if any existing job present. If no existing job present, then a new backup job will be applied.

   > “ ”

or

Select **On the selected computer, if the specified drive is already assigned to an existing recovery point set backup job, choose to Keep the existing backup job and not apply the new backup job.**>**Note:** Apply backup job will fail if any existing job present. If no existing job present, then the new backup job will be applied.

or Select **On the selected computer, if the specified drive is already assigned to an existing recovery point set backup job, choose to Delete the existing backup job and apply the new**

backup job.>**Note:** Existing backup job will be deleted and the new backup job will be applied. If no existing job present, then just the new backup job will be applied.

1. Click Ok.

   > “ ”

   Note: The summary pop-up window appears with the information of total number of computer count where the Apply backup job attempted, succeeded and failed.

   > “ ”

To apply an Independent Recovery Point Set backup job in a default or custom target

1. On the Veritas System Recovery Manager console, click Manage Computers tab in the left pane.
2. Select any Backup Job you want to apply to a target and Click **Apply** in the Backup Tasks tab.
3. On the Apply Backup Job window, choose the available default or created custom targets and Click **Apply**.

   > “ ”

   Note: The summary pop-up window appears with the information of total number of computer count where the Apply backup job attempted, succeeded and failed.

   > “ ”

To create a custom target from Apply Backup Job

1. On the Veritas System Recovery Manager console, click Manage Computers tab in the left pane.
2. Click **Apply** in the Backup Tasks tab.

   > “ ”

   Note: The Apply Backup Job window appears.

> “ ”

3. Click Create.
4. On the Create Target window, Enter any Target name in the text field.
5. In the Select Computers pane select any computer to add it to the target.

> “ ”

Note: If you want to add multiple computers to the target, Ctrl + click the computers and clickRight Arrowand if you want to remove computers from the target clickLeft Arrow.

> “ ”

6. Click **Create**

To create a custom target using Manage Targets

1. On the Veritas System Recovery Manager console, click Manage Targets.
2. Click **Create** in the Manage Target window.

> “ ”

Note: The Create Target window appears.

> “ ”

3. On the Create Target window, Enter any Target name in the text field.
4. In the Select Computers pane select any computer to add it to the target.

> “ ”

Note: If you want to add multiple computers to the target, Ctrl + click the computers and clickRight Arrowand if you want to remove computers from the target clickLeft Arrow.

> “ ”

5. Click **Create**.