

# User Guide - eScan for Linux File Server





# I. Required eScan for Linux RPMS / Debian packages

RPM Package Name	File name
mwadmin	mwadmin-x.x-x. <li>linux distro&gt;<release>.i386.rpm</release></li>
mwav	mwav-x.x-x. <li>linux distro&gt;<release>.i386.rpm</release></li>
escan	escan-x.x-x. <li>linux distro&gt;<li>linux release&gt;.i386.rpm</li></li>
escan-rtm	escan-rtm-x.x-x. <li>linux distro&gt;<release>.i386.rpm</release></li>

Debian Package Name	File name
mwadmin	mwadmin-x.x-x. <li>linux distro&gt;<release>.i386.deb</release></li>
mwav	mwav-x.x-x. <linux distro=""><release>.i386.deb</release></linux>
escan	escan-x.x-x. <linux distro=""><release>.i386.deb</release></linux>
escan-rtm	escan-rtm-x.x-x. <linux distro=""><release>.i386.deb</release></linux>



#### II. Installation

#### Step 1:-

#### NOTE: The packages should be installed as per the order given below

Command Line Installation:

#### For RPM Packages:

```
# rpm -ivh mwadmin-x.x-x.linux flavor><release>.i386.rpm
```

# rpm -ivh mwav-x.x-x.linux flavor><release>.i386.rpm

# rpm -ivh escan-x.x-x.linux flavor><linux release>.i386.rpm

# rpm -ivh escan-rtm-x.x-x.linux flavor><linux release>.i386.rpm

#### For Debian packages:

```
# dpkg -i mwadmin-x.x-x.linux flavor><release>.i386.deb
```

# dpkg -i mwav-x.x-x.linux flavor><release>.i386.deb

# dpkg -i escan-x.x-x.linux flavor><linux release>.i386.deb

# dpkg -i escan-rtm-x.x-x.linux flavor><linux release>.i386.deb

#### Step 2:-

After the installation is complete,

a) Add following entries in [global] section of /etc/samba/smb.conf file

max mux = 1

b) Add following entries in your [share\_name] in /etc/samba/smb.conf file

vfs object = vscan-mwav vscan-mwav: config-file = /opt/MicroWorld/etc/escan/vscan-mwav.conf

(NOTE: This [share\_name] folder will be scanned by eScan)

c) And restart the samba server

This completes the Installation procedure for eScan for Linux File Server.



### III. Managing eScan for linux using the Web Administrator

#### (NOTE: Browser supported is Firefox).

a) To login to the Web Administration using the Hypertext Transfer Protocol Secure (HTTPS)

# https://<eScan\_Server\_IP\_address>:10443

**b)** On first time login, "Create Super USER" window will be displayed. Create a new Super User to access the MWAV and the eScan Module settings

Username should be in the EMAIL-ID format i.e. username@domain.com

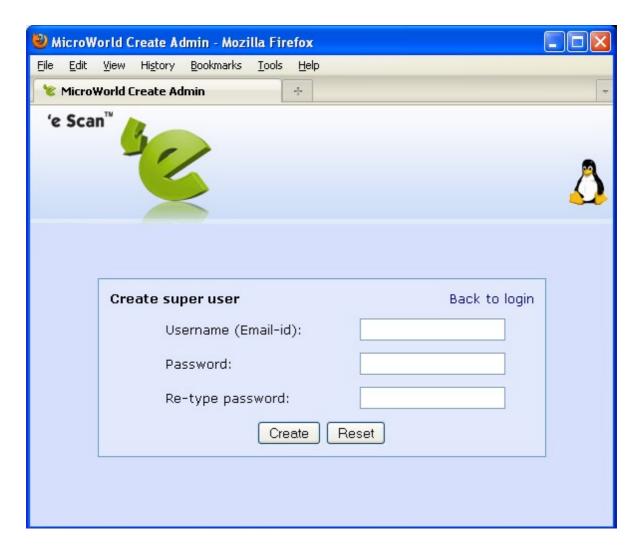


Fig.1



#### MANAGING eScan AV FROM THE WEB ADMINISTRATOR:

- 1) To access the eScan AV settings, select **eScan** in the list of Product-Name drop down box.
- 2) Login to the Web Administrator using the Super User email id and password

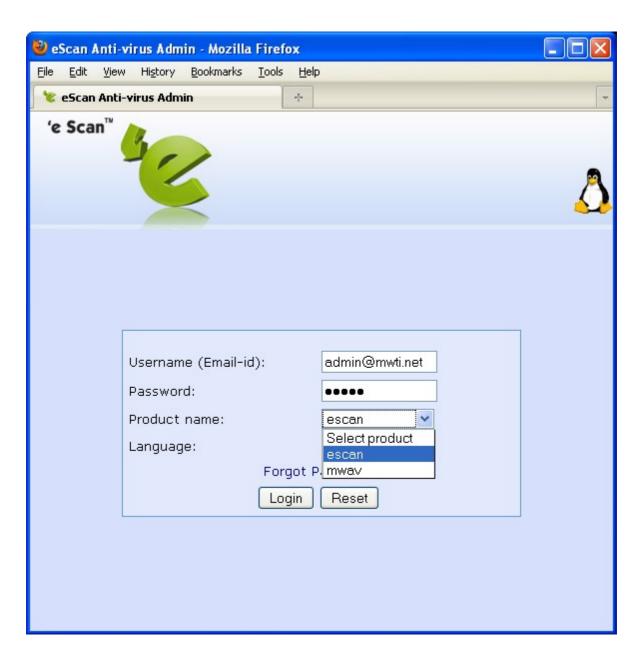


Fig.2



**3)** This will open the License Key and the EULA page. Apply the eScan License key provided to you. For evaluation, select the "Click here to register and get a license key." A license key will be emailed and apply the same to the the space provided.



Fig.3



4) The Welcome Screen displayed after applying the eScan License Key.

#### Features and Options in eScan AV:

#### 1) Control > Services

Displays the MicroWorld Anti-virus database update status, AV and the Samba Service status.

- Running Services is indicated with a Green Flag.
- Stopped Services is indicated with a Red Flag.

It also displays the current action by eScan AV on infected files accessed on the Samba shared folder.



Fig.4



- **2)** Control > Preferences: In this section, Admin password can be changed, new users can be added. The type of users that can be created are Super user and Admin user. Normal user types are not available for eScan for Linux File Servers.
  - Super users can access both the eScan AV module and the MWAV module from the Webscan Administrator.
  - Admin users can access the particular module in which they are created. For eg. A
    normal user created in the eScan module can access only the eScan Module and not the
    MWAV module in the Web Administrator.

Contr	rols > Preferences			0
	Change password			
		Old password:		
		New password:		
		Re-type new password:		
		Change Passwor	d Reset	
	Add user			
		Username:	O Super user	
		Password:	O Admin user	
		Re-type password:	⊙ Normal user	
		Add	Reset	
	Add users from file:		Browse	
		Add	Reset	

Fig.5



# 3) Scan > Options

In this section, the default action scan options can be set for **On Demand Virus Scanning** i.e. Manual Virus scanning of the system. Also, here it allows you to set the option to alert for outdated AV database.

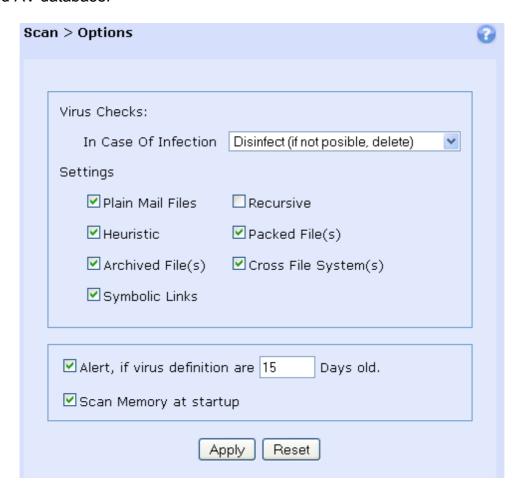


Fig.6



#### 4) Scan > Schedule

In this section, a schedule can be set for auto-scan of the system at a specified date and time. This ensures a periodic scanning is carried out.

A list of schedules, already created is displayed in the top list box. Schedule name, time when it should start, when it is next due. User can delete the existing schedule by selecting the schedule and choosing Delete.



Job Name (alphanumeric) job1 Objects to be Scanned Execute Once Weekly OHourly Monthly Opaily Month 01 💌 Date 10 💌 Day Sunday Hour 18 💌 Minutes 39 💌 Virus Checks: Disinfect (if not possible, quarantine) In Case Of Infection Settings ✓ Mail(s) Recursive ☑ Heuristic ☑ Packed File(s) ☑ Archived Files ☑ Cross File System(s) Symbolic Links Add Reset

Fig.8



# 5) Monitor > Scan & Actions

NOTE:- The Monitor section contains the settings to be configured for AV action on the [shared\_name] folder for Samba server.

In this section, contains the settings for scaning and actions to be taken by eScan on Real Time basis on the Samba shared file.

✓ Scan on file open  Deny access on sca	on error	<ul><li>✓ Scan on file close</li><li>☐ Send warning message</li></ul>
☐ Try to Disinfect infe		□ Jend wanning message
Cache Size [0-2048]	1000	Cache lifetime (in seconds) [0-86400] 4200
ODo nothing		
● Delete		
O Quarantine Quaran	Quarantine Location	/var/MicroWorld/var/quarantine/es
	Prefix (Alphanumeric)	vir
	Prefix (Alphanumeric)	

Fig.9



### 6) Monitor > Excludes

This screen allows to set various criteria to exclude the Scan of few file(s) like limiting the Maximum size of files to be scanned and types of files to be excluded.

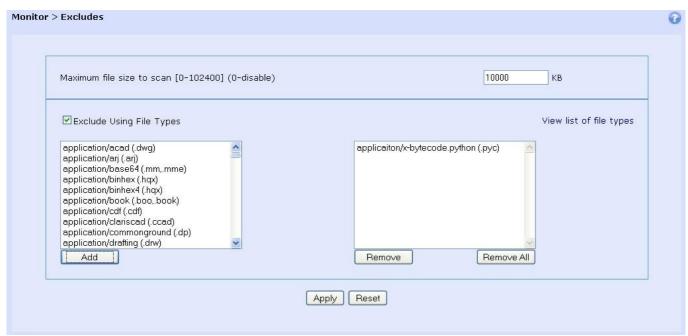


Fig.10



#### 7) Monitor > Client Policies

In this section, policies can be set like allowing access to clients without any scanning of files (White list Policies), blocking clients from access (Black list policies), allowing access to clients with scanning of all files (Suspected List Policies)

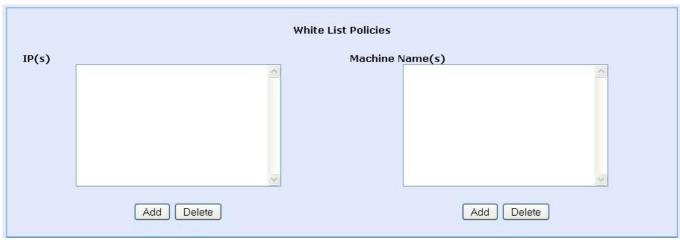


Fig.11

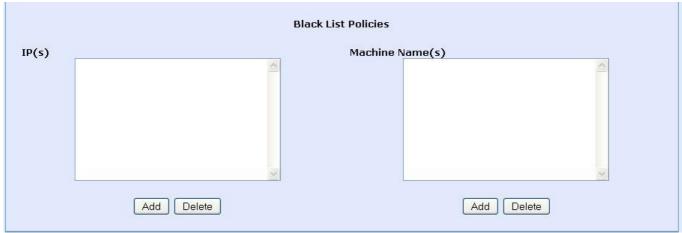


Fig.12



Fig.13



### 8) Monitor > Logs

This section allows to configure the log and report options,



Fig.14

#### 9) Logs > eScan Logs

In this section, you can set the log related settings and to view a previous log of eScan activity as well as to clear previous log(s).

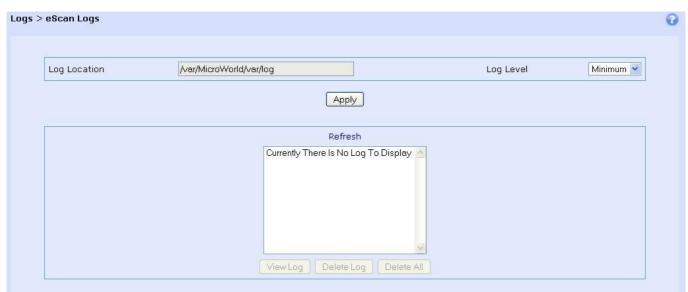


Fig.15



10) Logs > Reports
This section will display the online eScan AV report.



Fig.16



#### • MANAGING MWAV FROM THE Web ADMINISTRATOR:

- 1) To access the eScan AV settings, select MWAV in the list of Product-Name drop down box.
- 2) Login to the Web Administrator using the Super User email id and password
- **3)** This screen specifies Server Status, and Settings to schedule the download of updates for MWAV for Linux and Windows and MWCAV for Linux.



Fig.17



# **4) AV Logs**This section will display the logs of the AV services

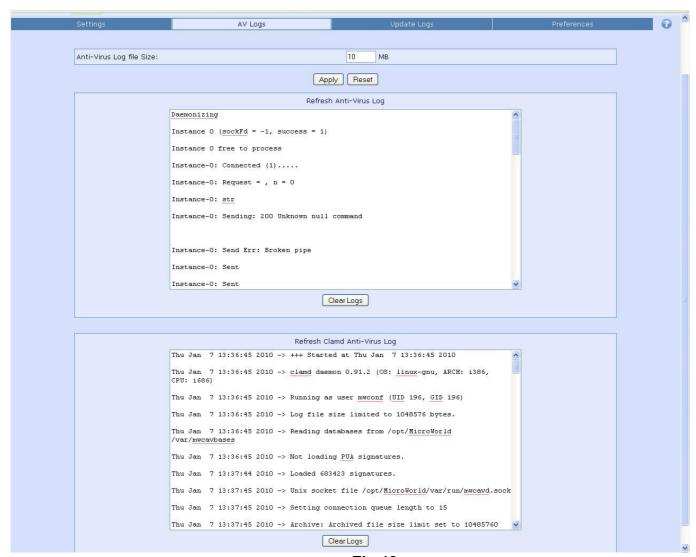


Fig.18



# 5) Update Logs

This section will display the logs of the AV update database.

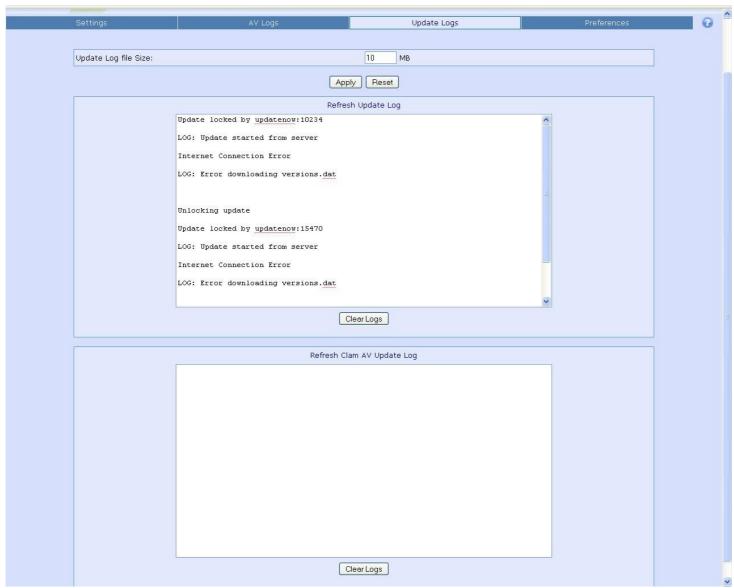


Fig.19



#### 5) Preferences

In this section, logged in user can change the password, new users can be added. The type of users that can be created are Super user and Admin user. Normal user types are not available for eScan for Linux File Servers.

- Super users can access both the eScan AV module and the MWAV module from the Webscan Administrator.
- Admin users can access the particular module in which they are created. For eg. An
  Admin user created in the eScan module can access only the eScan Module and not the
  MWAV module in the Web Administrator.





## Fig.20

# IV. On-Demand Scanner (eScan GUI)

To access the On-Demand Scanner from the Desktop, click on the eScan "e" icon on the Desktop.

#### **Normal User:**

Fig.21 will be displayed when in Normal User login.



Fig.21



#### **Root User:**

**Fig. 22** will be displayed when in Root User login with additional option of Update and Scheduler.

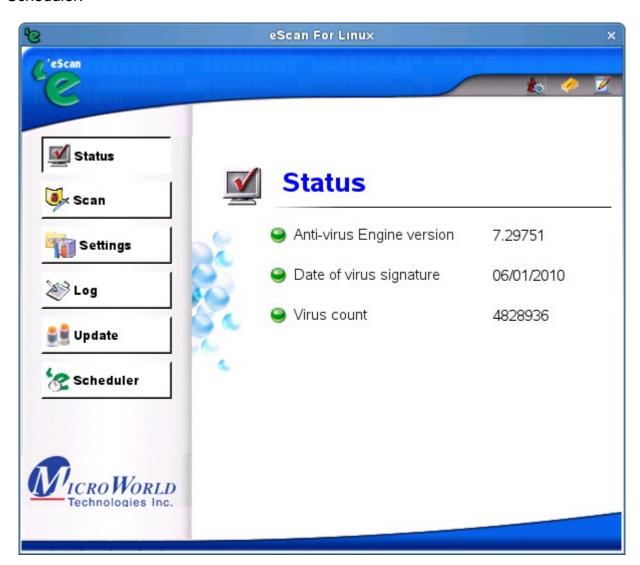


Fig. 22

Clicking on this button will display the Status of :

- Anti-virus Engine version Displays the version number eScan AV engine.
- Date of virus signature Displays the date of the downloaded virus signature updates.
- Virus count Displays the total count of the Viruses detected by eScan.



Clicking on this button will display the various options to execute the On-Demand Scanning:

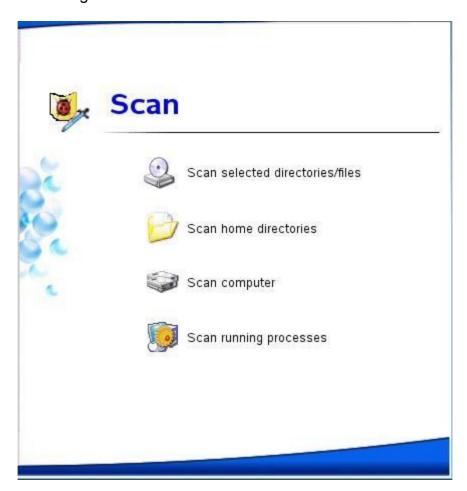


Fig.23



 Scan selected directories/files – Click on this button to scan a specific directories/files. Select the directories / files and the click on the Scan button, which will begin the scanning of the selected directories / files. (Ref. Fig.24)

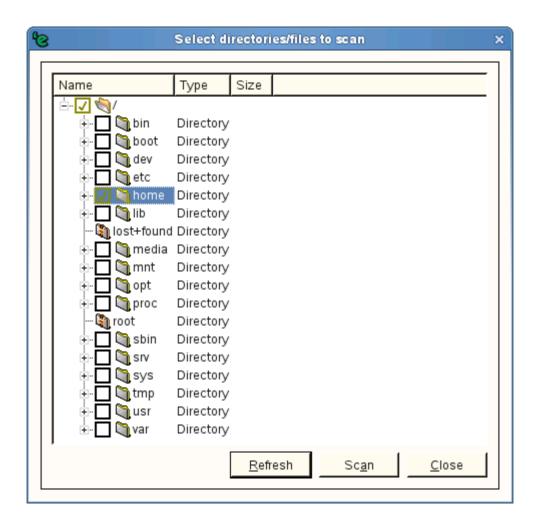


Fig.24

- Scan home directories Click on this button to scan the Home directories and files of the logged in user.
- Scan Computer- Click on this button to scan the entire computer.
- Scan running processes Click on this button to scan the processes running in the memory.



Clicking on this button, the eScan tab will display the settings for the On-Demand Scanning (ODS). Setting configured in this section will be the default action by the On-Demand Scanner whenever it is being executed.:

**eScan Tab:** In case of normal user login, only the eScan tab will be visible.

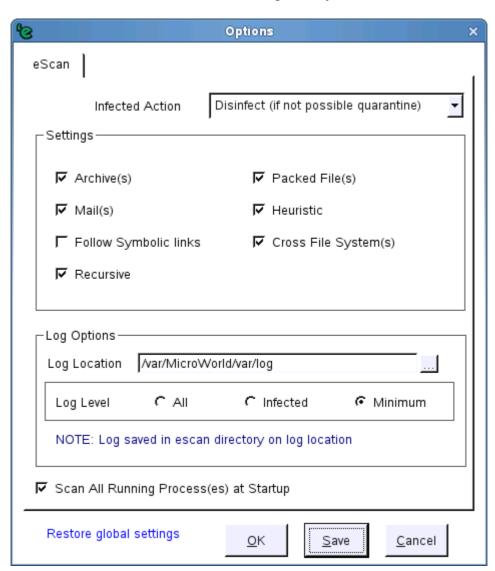


Fig. 25

- Infected Action The selected action, from the drop-down list, will be taken during the eScan On-Demand scanning.
  - i. Log Only This will only log the information of the infected object.
  - ii. Disinfect (if not possible Log) This will try to disinfect and if disinfection is not possible it will only log the information of the infected object.
  - iii. Disinfect (if not possible Delete) This will try to disinfect and if disinfection is not possible it will delete the infected object.



- iv. Disinfect (if not possible quarantine) This will try to disinfect and if disinfection is not possible it will quarantine the infected object.
- v. Disinfect (if not possible Rename) This will try to disinfect and if disinfection is not possible it will rename the infected object.
- vi. Disinfect (if not possible prompt action) This will try to disinfect and if disinfection is not possible it will prompt the user for an action to be taken on the infected object.
- vii. Delete Infected This will directly delete the infected object.
- viii. Quarantine This will directly quarantine the infected object.
- ix. Rename This will directly rename the infected object.
- x. Prompt for an action (no disinfect) This will prompt the user for an action to be taken on the infected object.
- Settings The selected objects will be scanned by default during On-Demand Scanning.
  - i. Archive(s) This option will specify the On-Demand Scanner to scan the archived files like zip, tar etc.
  - ii. Mail(s) This option will specify the On-Demand Scanner to scan mail files.
  - iii. Follow Symbolic Links Symbolic links allows to access one file from another through links. This option specifies the On-Demand scanner whether to resolve the symbolic link before actually scanning the object or to skip any such links.
  - iv. Recursive This option spcifies the On-Demand scanner to scan the subdriectories while scanning the directory object.
  - v. Packed File(s) This option specifies whether to scan compressed executables.
  - vi. Heuristic Selecting this option allows eScan to check for unusual sequence(s), pattern(s) or content.
  - vii. Cross File System(s) In Linux, different file systems can be mounted at different location. Crossing the file systems means checking files on different partitions and/or network mounted file systems. This option specifies to On-Demand scanner whether to cross file system in scan path.



## Log Options

- i. Log Location This option specifies the location of the eScan log.
- ii. Log Level This option specifies the type of logs to be created.
  - (a) All This option will specify a detailed eScan log.
  - (b) Infected This option will specify only details of the infected objects in the eScan log.
  - (c) Minimum This option will specify only a minimum detail of the objects scanned in the eScan log.
- Scan All Running Process(es) at Startup This option specifies the On-Demand scanner to scan all processes that are running are checked for any memory resident and other viruses.
- Restore global settings This option is available only for Normal user. Clicking on this option will restore the settings made by the ROOT user.



**AV Update Tab:** In case of root user login, the eScan tab as well as AV Update tab will be visible. This section contains the internet settings for downloading of virus signature updates.

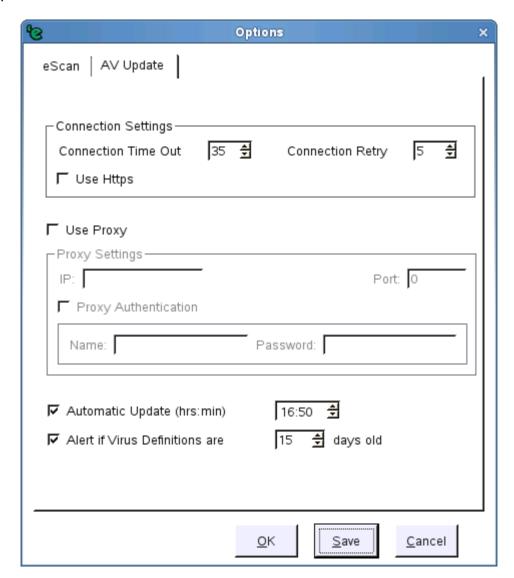


Fig. 26

- Connection Settings This specifies in case of :
  - i. Connection Time Out It will disconnect after a specified time in seconds, if it is unable to connect to the internet.
  - ii. Connection Retry It will try to reconnect the specified number of times in case of internet connection timed out.



- Proxy Settings Select Use Proxy, to configure the Proxy settings for connecting to the internet to download the AV updates.
  - i. IP Enter the IP address of the Internet proxy server.
  - ii. Port Enter the Port of the internet proxy server.
  - iii. Proxy Authentication: Enter the credentials in case the Proxy requires authentication.
    - Name Enter the user name for the proxy server.
    - Password Enter the password.
- Automatic Update Select this option for eScan to download the AV updates automatically at specified time.
- Alert if Virus Definitions are \_\_\_\_ days old This will Alert the user when AV updates are more than the specified number of days.



Clicking on this button will display all the On-Demand Scanner logs.

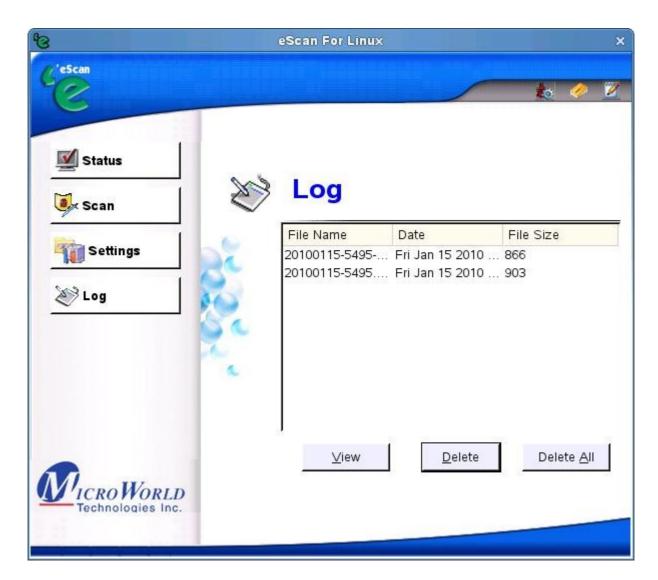


Fig. 27





Clicking on this button will begin the downloading of latest eScan AV updates. (NOTE:- This button is available for root user login only).

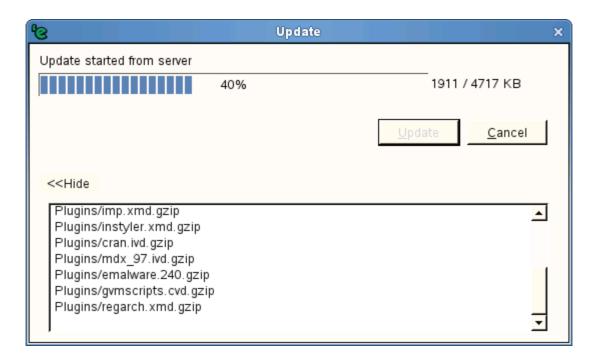


Fig.28



Fig. 29

Once the download completes, "Virus Database updated successfully" alert message is displayed.



Clicking on this button, will display the list of On-Demand scanning scheduled to be executed at a specified time.



Fig.30 BUTTONS

- 1) **Add –** Click on this button to add a new job for scanning.
- 2) **Edit -** Click on this button to modify an existing job.
- 3) **Delete –** Click on this button to delete an existing job.
- 4) **Purge –** Click on this button to delete outdated jobs i.e. jobs already have been completed.



# IV. Command-Line to run eScan from Terminal for scanning of viruses and other malwares

For Command-line help to run eScan for scanning of viruses and other malwares, refer to the manual page

# man escan