

User Guide - eScan for Linux Desktop





I. Required eScan for Linux RPMS / Debian packages

RPM Package Name	File name
mwadmin	mwadmin-x.x-x.<linux distro><release>.i386.rpm
mwav	mwav-x.x-x.<linux distro><release>.i386.rpm
escan	escan-x.x-x.<linux distro><linux release>.i386.rpm

Debian Package Name	File name
mwadmin	mwadmin-x.x-x.<linux distro><release>.i386.deb
mwav	mwav-x.x-x.<linux distro><release>.i386.deb
escan	escan-x.x-x.<linux distro><linux release>.i386.deb

II. Installation

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 distro><release>.i386.rpm
# rpm -ivh mwav-x.x-x.<linux distro><release>.i386.rpm
# rpm -ivh escan-x.x-x.<linux distro><linux release>.i386.rpm
```

For Debian packages:

```
# dpkg -i mwadmin-x.x-x.<linux distro><release>.i386.deb
# dpkg -i mwav-x.x-x.<linux distro><release>.i386.deb
# dpkg -i escan-x.x-x.<linux distro><linux release>.i386.deb
```



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, there are two ways of Authentication types.

- CheckPass Authentication – Selecting this option shall enable to create a Super User in database. Once created, login to the Web-administration by clicking on Back to Login option. **(Refer Fig.1).**

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

The screenshot shows a web browser window titled "MicroWorld Create Admin - Mozilla Firefox". The address bar shows "MicroWorld Create Admin". The page features the eScan logo on the left and a penguin icon on the right. The main content area has a light blue background. It contains two sections: "Authentication Type" with radio buttons for "CheckPass Authentication" (selected) and "LDAP Authentication"; and "Create super user" with input fields for "Username (Email-id)", "Password", and "Re-type password", along with "Create" and "Reset" buttons. A "Back to login" link is also present.

Fig.1



- LDAP Authentication : Selecting this option shall configure the Web-Administration of the eScan using the LDAP server in the network to authenticate the login. For more information check **Preferences in this document**.

Once configured click on Test & Save button (**Refer Fig.2**). If the Authentication by the LDAP server is successful, the credentials will be saved. Then click on Back to Login option to login to the WebScan Administration using the LDAP User

MicroWorld Create Admin - Mozilla Firefox

File Edit View History Bookmarks Tools Help

MicroWorld Create Admin

e Scan

Authentication Type

CheckPass Authentication ☐

LDAP Authentication ☒

Enter LDAP Credentials

LDAP Server: 127.0.0.1

LDAP Port: 389

BaseDN: dc=example,dc=com

User attribute: cn #1

Filter: cn=%u #2

Username: #3

Password: #3

Back to login

Test & Save Reset

Fig.2



- **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.

A screenshot of the eScan Anti-virus Admin web interface displayed in a Mozilla Firefox browser window. The browser title is "eScan Anti-virus Admin - Mozilla Firefox". The address bar shows "eScan Anti-virus Admin". The page header features the eScan logo on the left and a Tux penguin icon on the right. The main content area is light blue and contains a login form. The form has four fields: "Username (Email-id):" with the value "admin@mwti.net", "Password:" with masked characters "•••••", "Product name:" with a dropdown menu showing "escan" and a list of options including "Select product", "escan", and "mwav", and "Language:" which is currently empty. Below the fields are two buttons: "Login" and "Reset". A link labeled "Forgot P." is also visible near the Language field.

Fig.3



3) This will open the field to enter the License Key with the EULA page. Apply the eScan License key provided to you. For evaluation, select the “Click here to register and get a license key”. This will be taken to the official web-site whereing you have to fill up the required details and submit. A license key will then be emailed to the registered email id. Apply the same in the field for License Key.

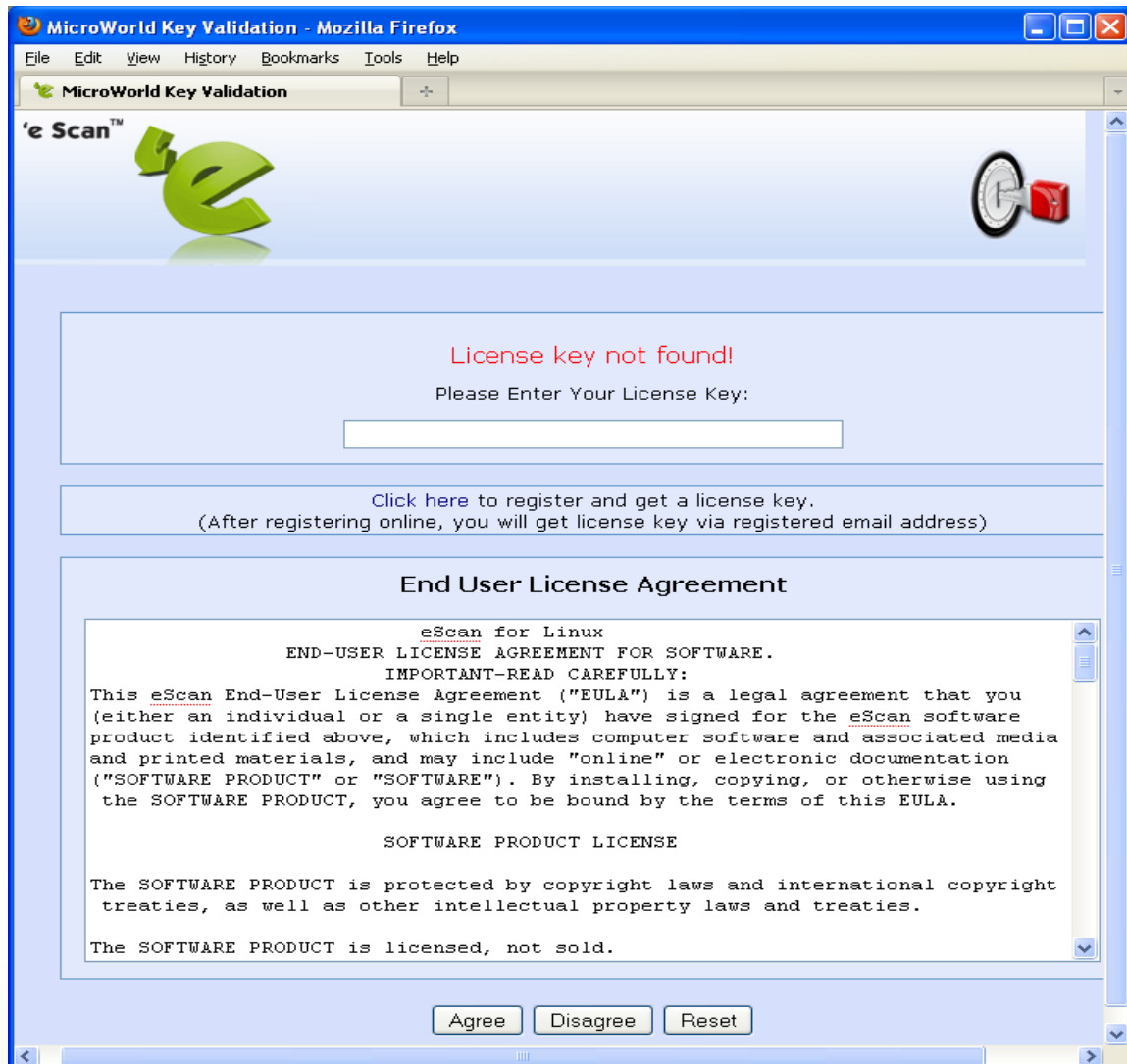


Fig.4

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

5) Features and Options in eScan AV:

a) Control > Services

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

- Services running is indicated with a Green Flag.
- Services stopped is indicated with a Red Flag.



Fig.5

b) Control > Preferences : In this section, Web-Console login credentials can be set either using the CheckPass or LDAP Authentication type.

CheckPass Authentication: Selecting this authentication, will create user database to enable login. 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 Desktop.

- 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.

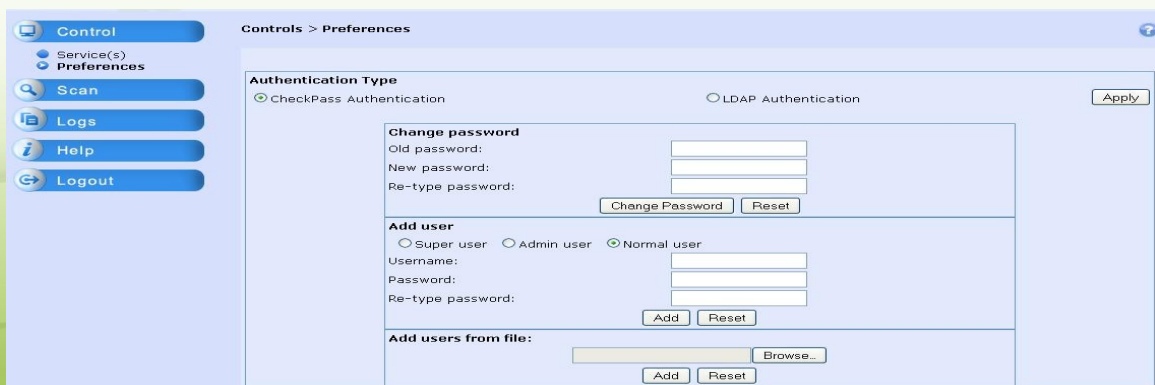


Fig.6

LDAP Authentication: Selecting this authentication shall configure the Web-Administration of the eScan using the LDAP server in the network to authenticate the login.

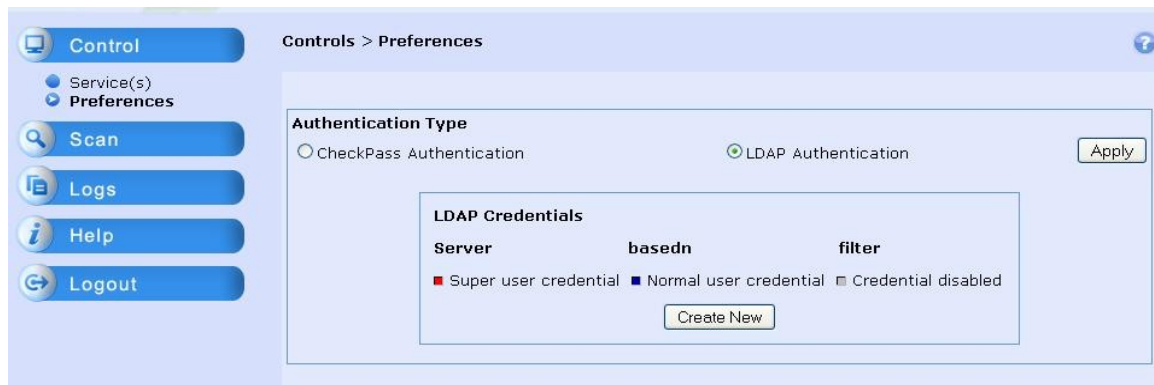


Fig.7

To enable the Web-Admin login using the LDAP Authentication,

1. Click on the Create New button,
2. Enter the new LDAP credentials (refer fig.8) in the fields provided,
3. Select Super user option and enter the LDAP server ip address and the LDAP port,
4. Enter the base distinguished name (Base DN),
5. Enter User attribute to search in the user DN in which the user name will be searched.
6. Filter field is optional. It is useful, if only users of specific groups should be allowed to login to eScan Web-Admin.
7. Enter the user and password to test and validate the LDAP authentication.
8. Click on Test & Add button.
9. If the Ldap settings are successfully authenticated, the credentials will be added (refer fig.9). Then click on the Apply button to enable the LDAP Authentication.



Fig.8

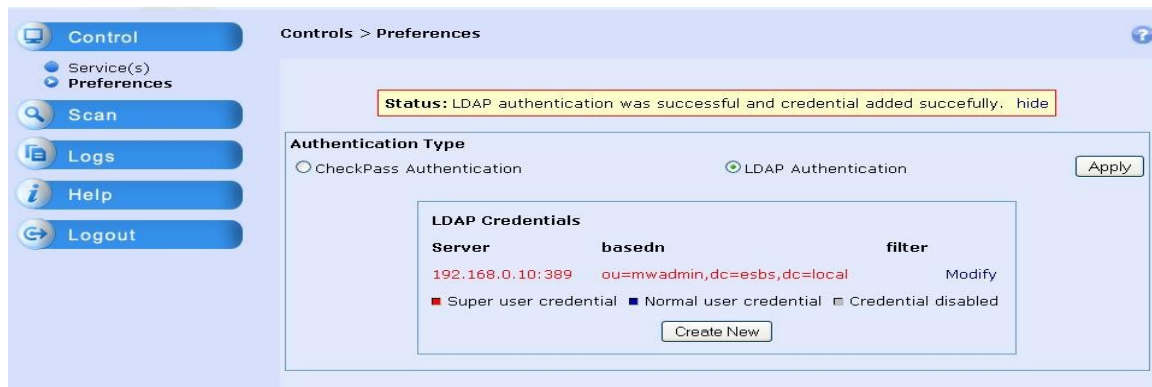


Fig.9

c) **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.

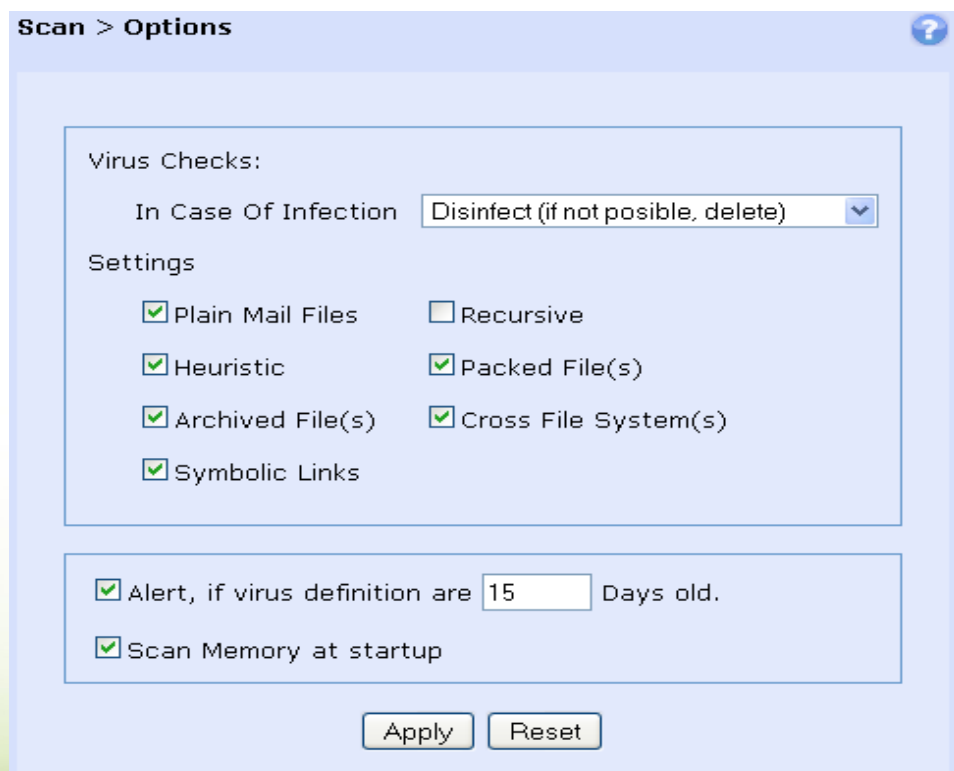


Fig.10



d) 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.



Fig.11

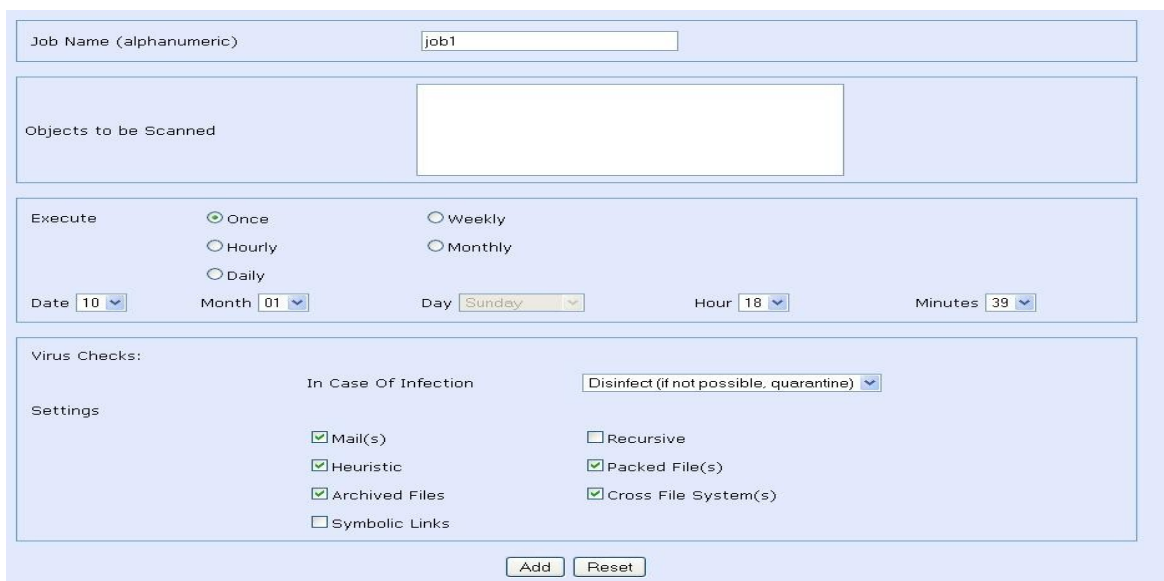


Fig.12

e) 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.13



- **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 Clam AV for Linux.

The screenshot shows the eScan Web Administrator interface. The top navigation bar includes 'Settings', 'AV Logs', 'Update Logs', and 'Preferences'. The 'Settings' tab is active. The main content area is divided into several sections:

- Service Status:** A table with columns: Service Name, Service Status, Restart, Stop, and View Log. It lists 'Anti-Virus Server' and 'Clam Anti-Virus Server'.
- Linux AV Update Date:** [dd/mm/yyyy]: 06/01/2010. Number of Virus Signatures: 4828936.
- Linux Clam AV Update Date:** [dd/mm/yyyy]: 05/01/2010. Number of Virus Signatures: 685204.
- Auto-update Linux db:** ☒. Time: 16 hr 50 mins. Update Every: 24 hrs. **Update NOW!**
- Start CLAM UPDATE as daemon:** ☐.
- Auto-update Clam db:** ☒. Time: 9 hr 30 mins. Update Every: 24 hrs. **Update NOW!**
- Send Clam Update Notification to:** [Text input field]
- Send Linux Update Notification to:** [Text input field]
- Use HTTPS Proxy Server for Updates:** ☐. No. of Retries: 5.
- HTTP/FTP Proxy Server for Updates:** ☐. Proxy Address: [Text input field]. Proxy Port: [Text input field].
- Proxy Server Authentication Info:** ☐. Username: [Text input field]. Password: [Text input field].

At the bottom, there are 'Apply' and 'Reset' buttons. A note at the very bottom states: '*Best viewed with 800*600 resolution*'.

Fig.14

4) AV Logs

This section will display the logs of the AV services

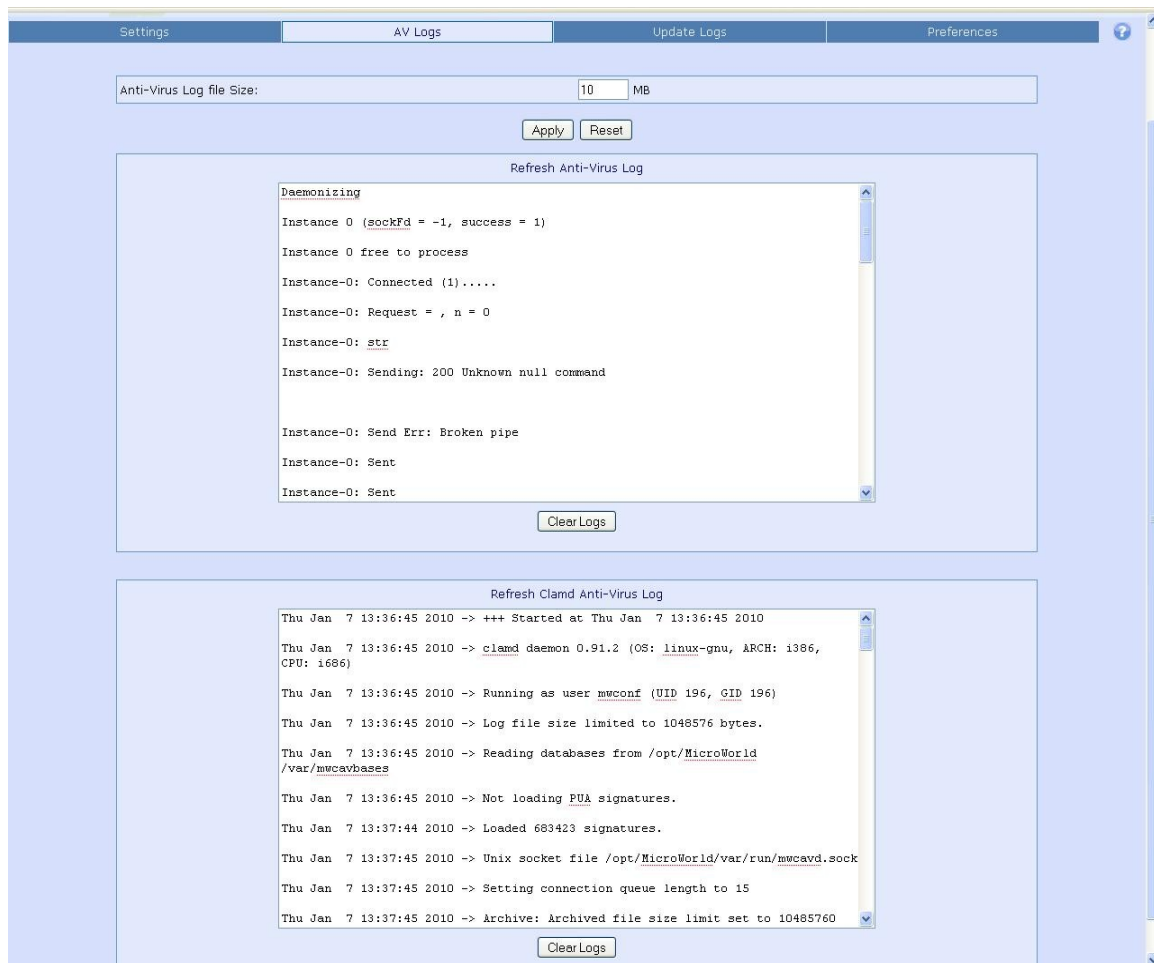


Fig.15

5) Update Logs: This section will display the logs of the AV update database.

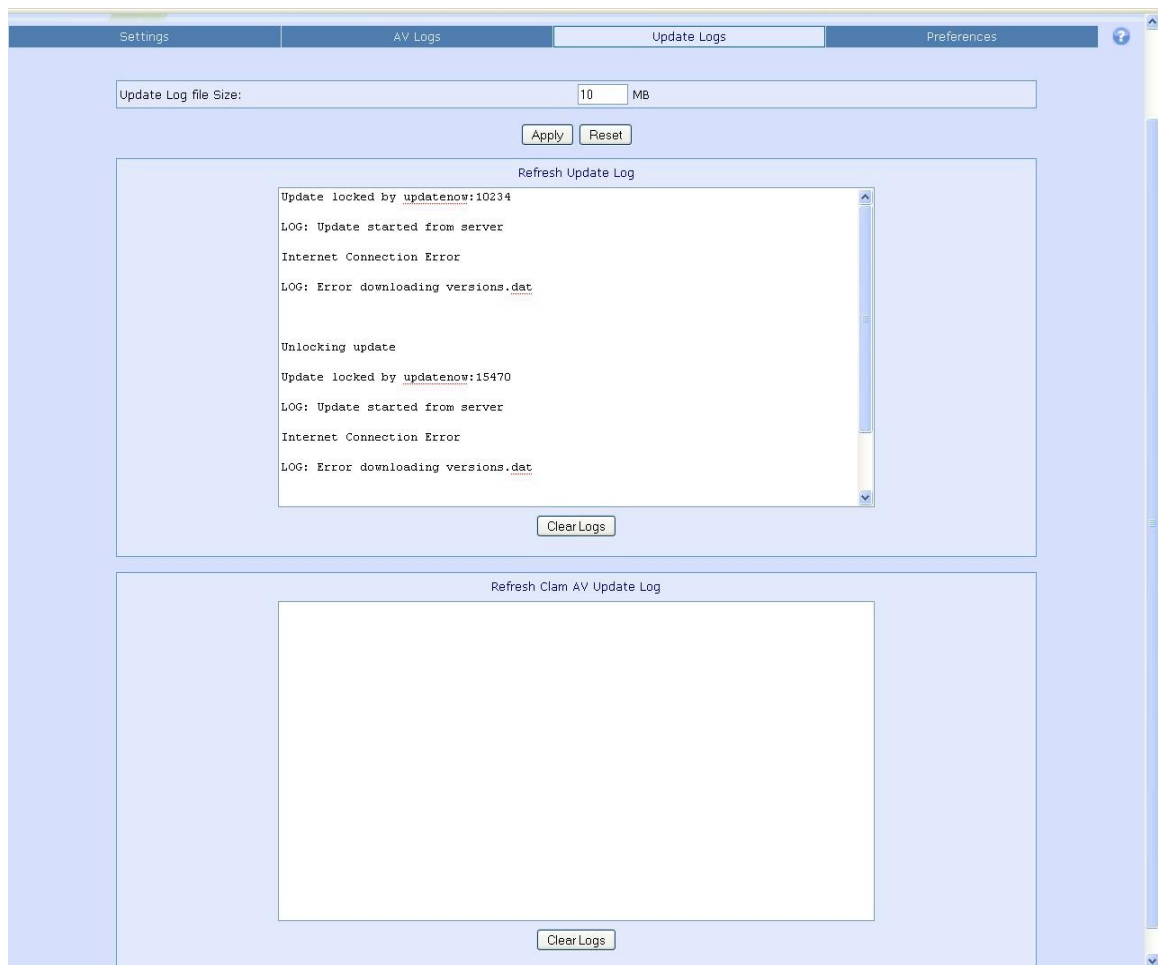


Fig.16



6) Preferences

In this section, Web-Console login credentials can be set either using the CheckPass or LDAP Authentication type ***(This is same as the Preferences in the eScan Module)***.

CheckPass Authentication: Selecting this authentication, will create user database to enable login. 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 Desktop.

- 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.



Settings	AV Logs	Update Logs	Preferences
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Authentication Type

☒ CheckPass Authentication ☐ LDAP Authentication Apply

Change password

Old password:

New password:

Re-type password:

Change Password Reset

Add user

☐ Super user ☐ Admin user ☒ Normal user

Username:

Password:

Re-type password:

Add Reset

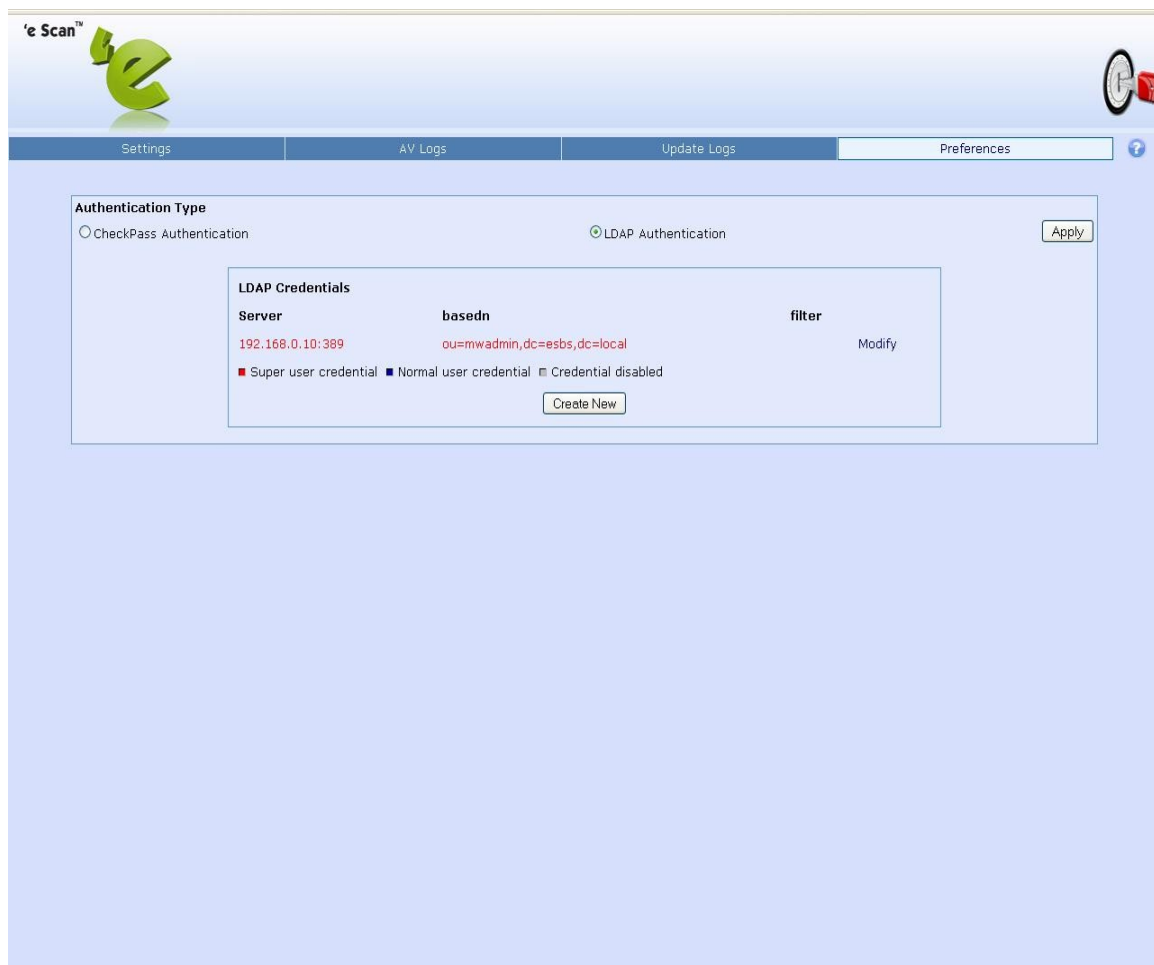
Add users from file:

Browse...

Add Reset

Fig.17

LDAP Authentication: Selecting this authentication shall configure the Web-Administration of the eScan using the LDAP server in the network to authenticate the login.



The screenshot shows the eScan web interface with the 'Preferences' tab selected. Under 'Authentication Type', 'LDAP Authentication' is chosen. The 'LDAP Credentials' section contains the following fields:

Server	basedn	filter
192.168.0.10:389	ou=mwadmin,dc=esbs,dc=local	

Below the table, there are radio buttons for 'Super user credential' (selected), 'Normal user credential', and 'Credential disabled'. A 'Create New' button is also present. An 'Apply' button is located at the top right of the form.

Fig.18

To enable the Web-Admin login using the LDAP Authentication,

1. Click on the Create New button,
2. Enter the new LDAP credentials (refer fig.8) in the fields provided,
3. Select Super user option and enter the LDAP server ip address and the LDAP port,
4. Enter the base distinguished name (Base DN),
5. Enter User attribute to search in the user DN in which the user name will be searched.
6. Filter field is optional. It is useful, if only users of specific groups should be allowed to login to eScan Web-Admin.
7. Enter the user and password to test and validate the LDAP authentication.
8. Click on Test & Add button.

If the Ldap settings are successfully authenticated, the credentials will be added (refer fig.9). Then click on the Apply button to enable the LDAP Authentication.

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.19 will be displayed when in Normal User login.

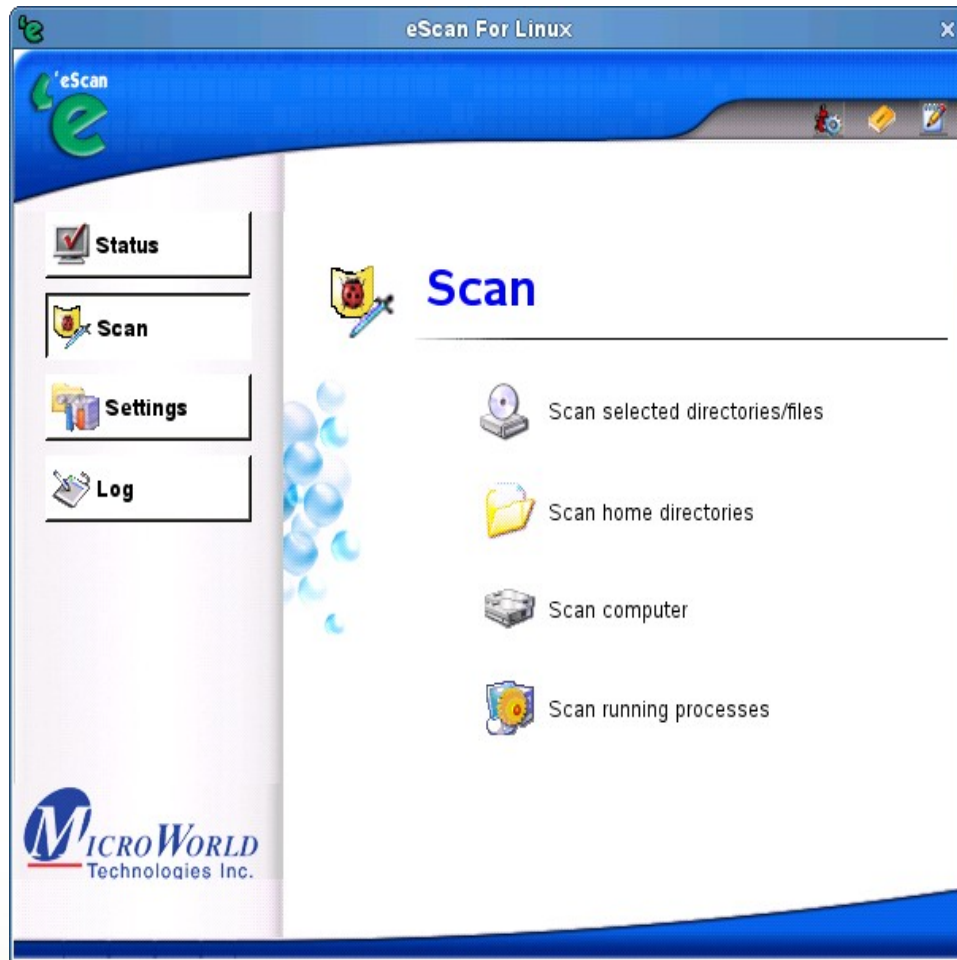


Fig.19

Root User: Fig. 20 will be displayed when in Root User login with additional option of Update and Scheduler.

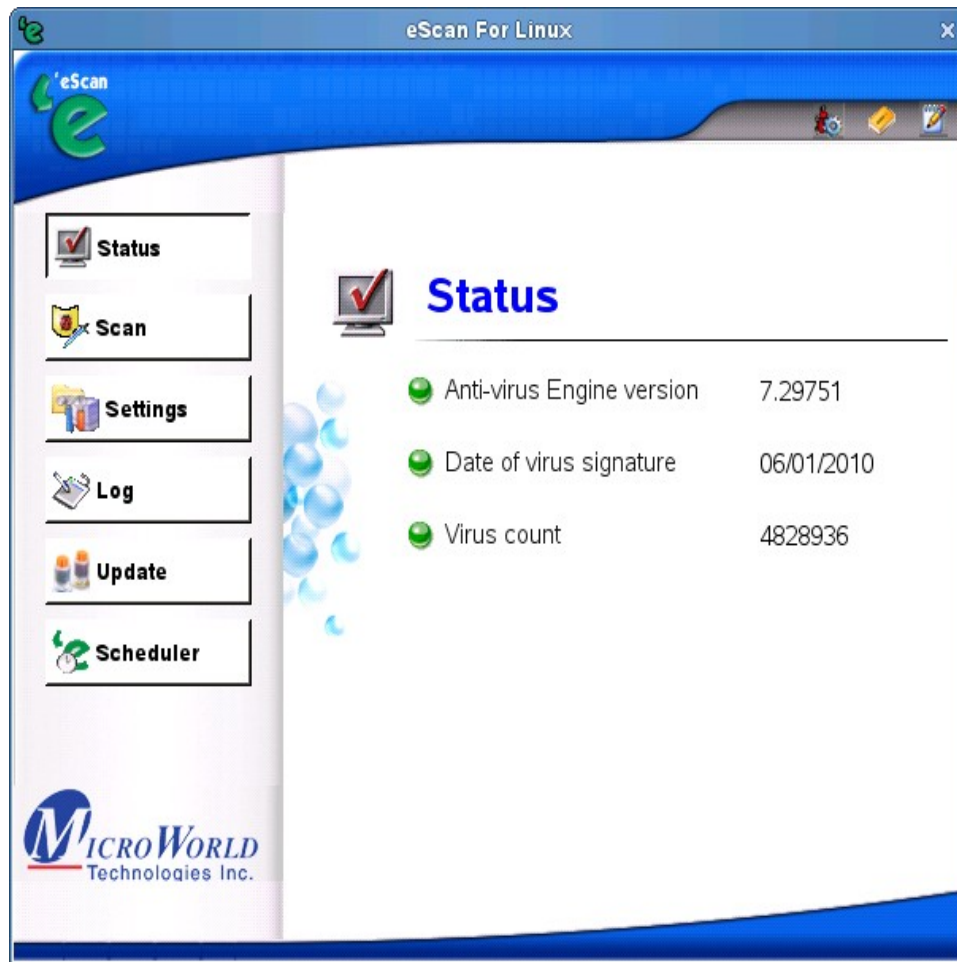


Fig. 20

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.21

- 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.22)

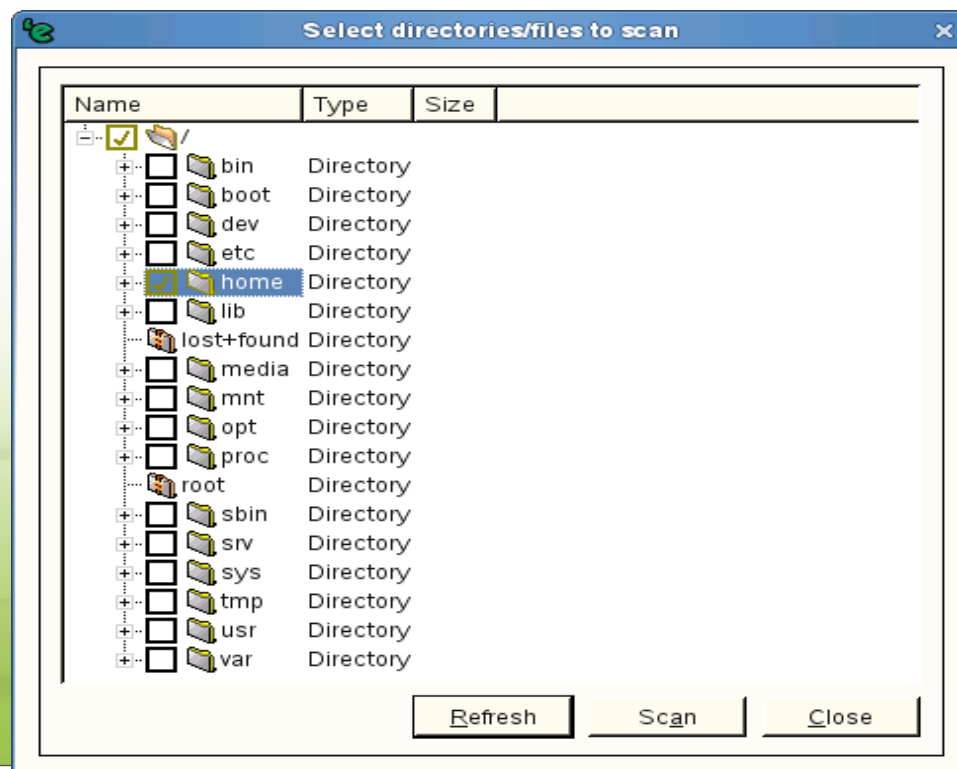



Fig.22

- 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). Settings 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.

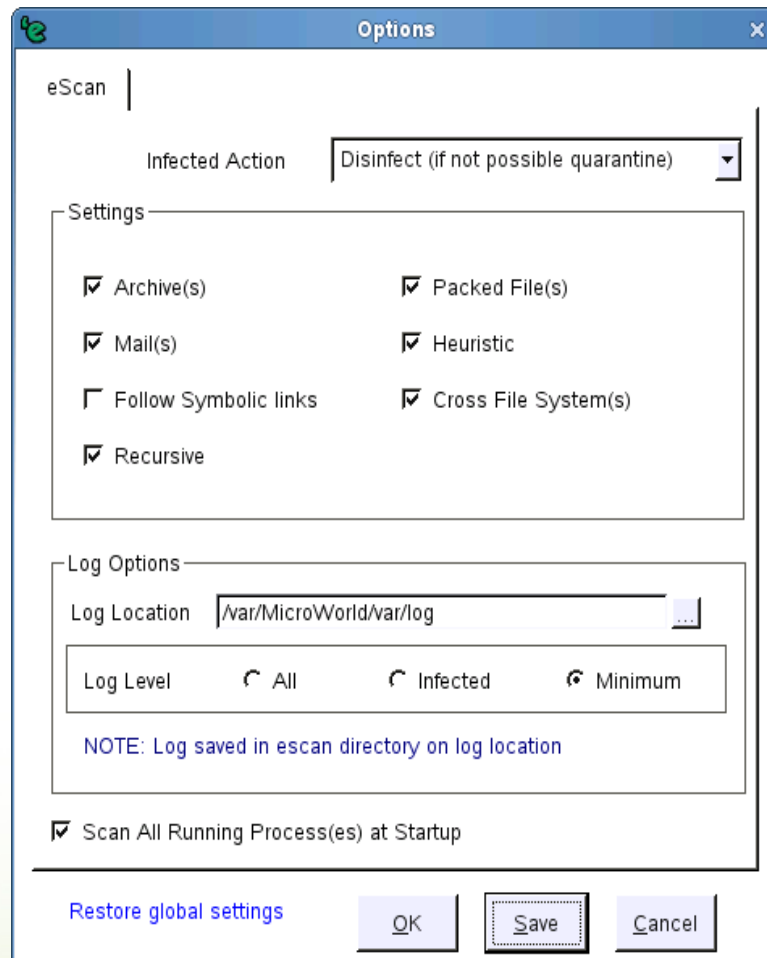


Fig. 23

- 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 specifies the On-Demand scanner to scan the sub-directories 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.

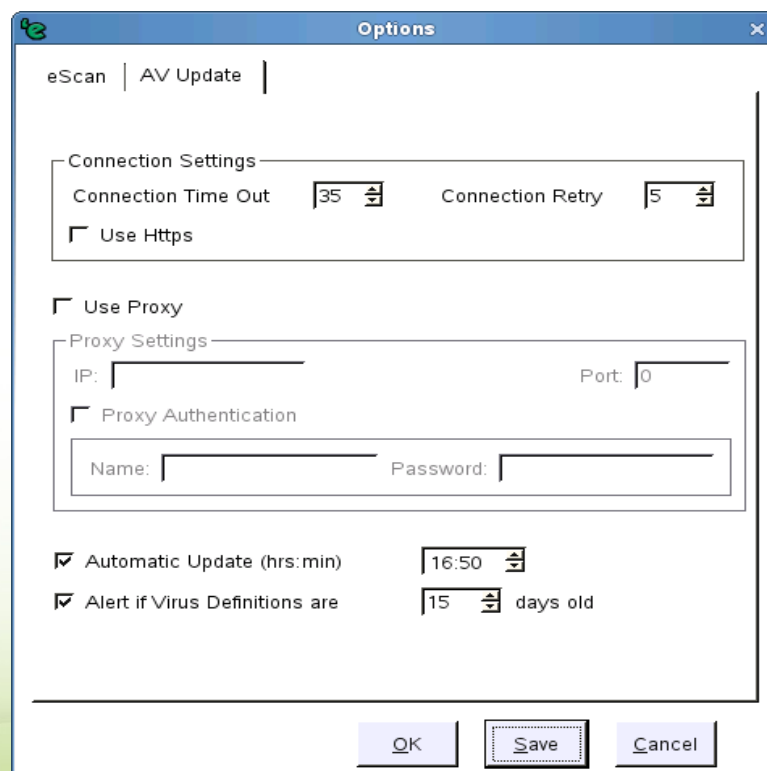


Fig. 24

- 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.

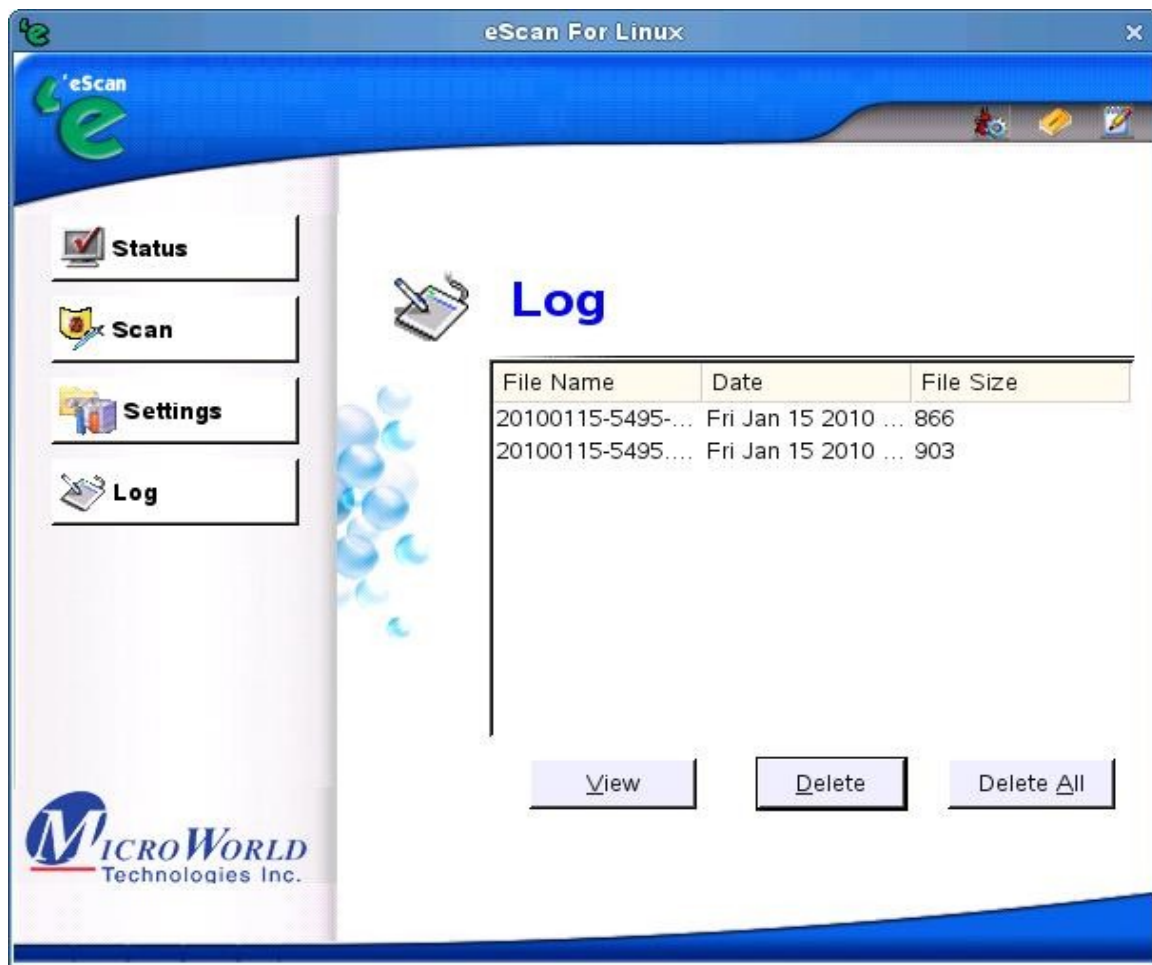


Fig. 25



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

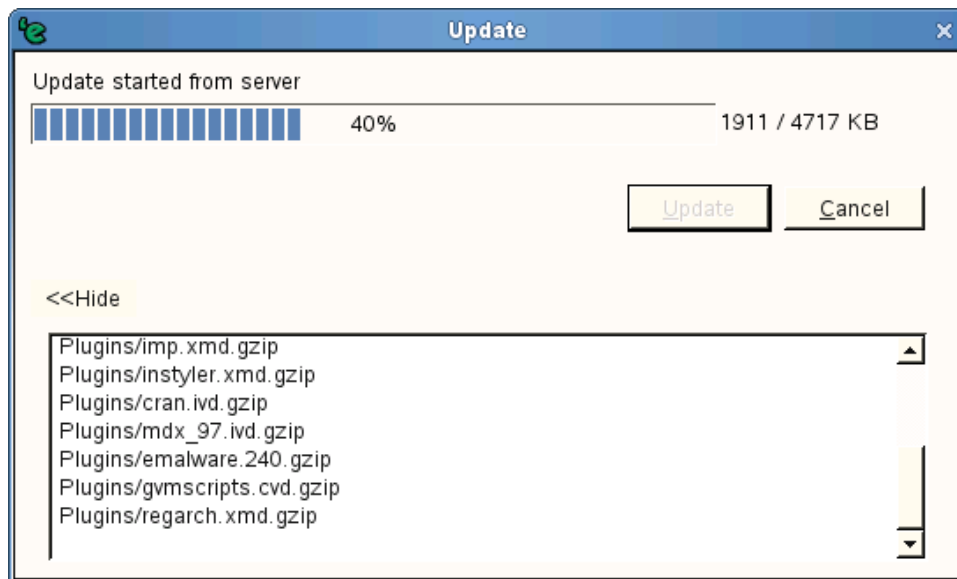


Fig.2

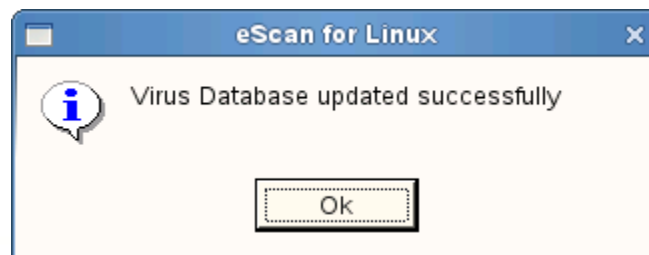


Fig. 27

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.

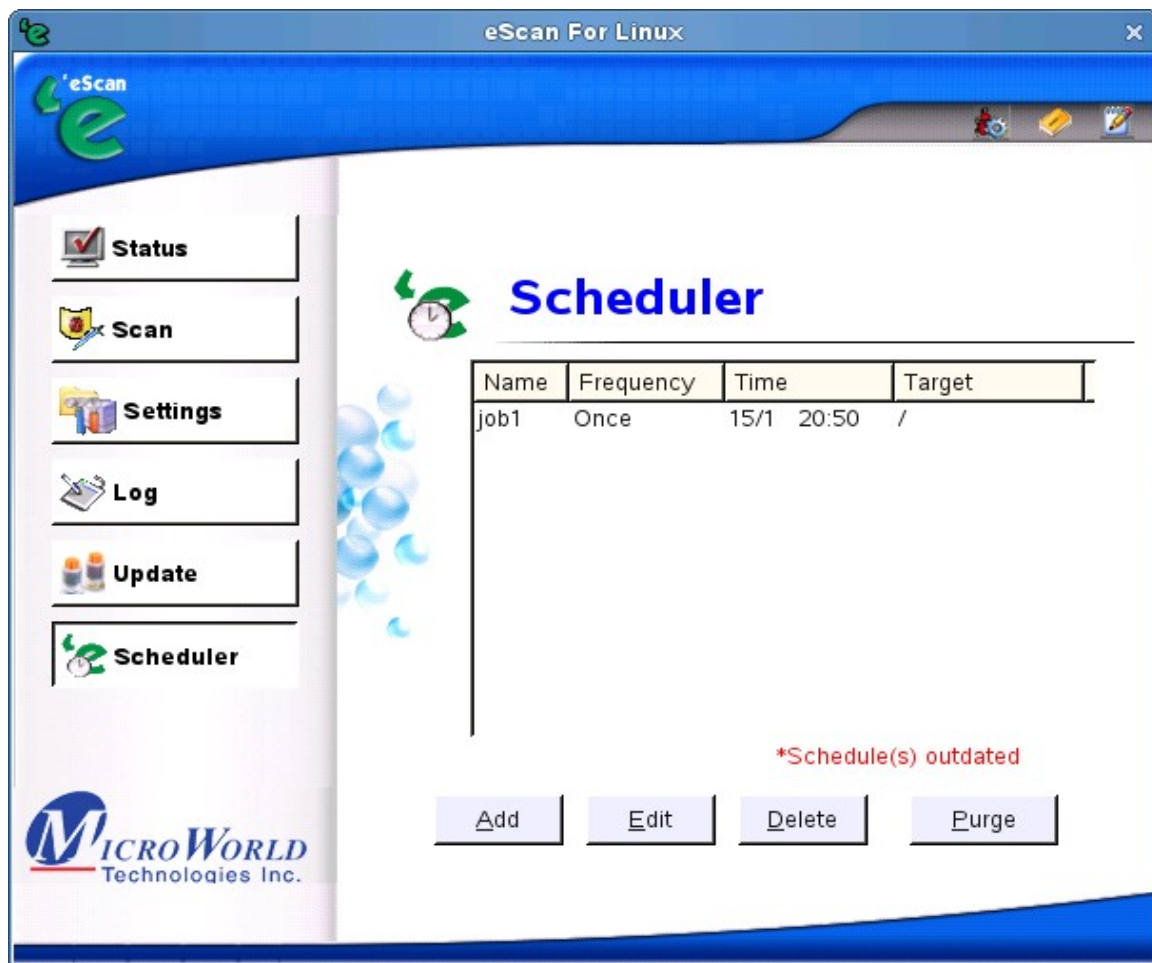


Fig.28

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