



Virex Sharing Application

Installation and Usage Guide



Avira

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Changelog

The current version of Virex has the following changes:

1. Support for SHA256 and MD5 hash for samples
2. FusionCharts statistics have been replaced with Chart.js

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1. Introduction

Virex is a web-based application based on the Norman Sample Sharing framework to organize the exchange of malicious samples, clean samples and URLs. Virex offers various statistics, such as the amount of downloaded samples by a sharing partner, the number of newly added samples by the owner of the system as well as file size and traffic metrics.

The application contains a complex user management for internal as well as for external users. It supports enabling and disabling user accounts, changing PGP keys, limiting the rights of the sample sharing to different collections types as (e.g., malware, clean and URLs). Additionally, there is a user account history, which shows the last requested samples and the last requested list of hashes. The downloaded samples for each user can be limited by date. This means that starting an exchange with a new sharing partner can start at a defined date.

The source code is published under the New BSD License (Reference: <http://www.opensource.org/licenses/bsd-license.php>) and is hosted on GitHub <https://github.com/avira/virex>.

On the GitHub project you can create issues if you find a bug or encounter issues in the application. You can check out the code from the GIT repository and feel free to commit code changes.

This installation and usage guide will help you to install and use the application on your own server and provides some information about the application.

2. System Requirements

The Virex application is designed to run on UNIX and Microsoft Windows operating systems. In either case, you may need the following additional software:

- Apache (<http://apache.org/>)
- PHP5.5, including the GD extension (<http://www.php.net/>)
- MySQL (<http://www.mysql.com/>)
- Yii PHP framework (<http://www.yiiframework.com/>)
- SMTP server
- GPG (<http://www.gnupg.org/>)
- 7zip (<http://7-zip.org/>)
- Chart.js (<http://www.chartjs.org/>)

The location of 7zip and GPG must be inserted in the PATH environment variables to work properly.

3. Configuration

This section describes the required configuration for the different modules to install the application on your web server.

3.1. Apache

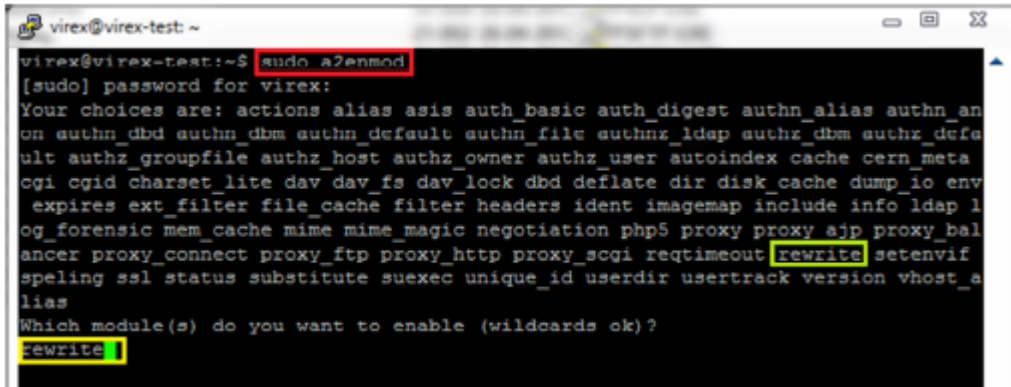
For the Virex application to work properly, you must be running Apache. In addition, the following options need to be adjusted:

3.2. Rewrite Module

The rewrite module must be enabled for the Virex application. Please open the httpd.conf file in a text editor, search for the line LoadModule rewrite_module and uncomment the entry.

Reference: http://httpd.apache.org/docs/current/mod/mod_rewrite.html

If the configuration file is empty on your server, please use **sudo a2enmod** to start the Apache configuration wizard in the terminal. Type the name of the module(s) you want to enable and then confirm your changes by pressing return (as shown):



```
virex@virex-test:~$ sudo a2enmod
[sudo] password for virex:
Your choices are: actions alias asis auth_basic auth_digest authn_alias authn_an
on authn_dbd authn_dbm authn_default authn_file authnz_ldap authz_dbm authz_defa
ult authz_groupfile authz_host authz_owner authz_user autoindex cache cern meta
cgi cgid charset_lite dav dav_fs dav_lock dbd deflate dir disk_cache dump_io env
expires ext_filter file_cache filter headers ident imagemap include info ldap l
og_forensic mem_cache mime mime_magic negotiation php5 proxy proxy_ajp proxy_bal
ancer proxy_connect proxy_ftp proxy_http proxy_scgi reqtimeout rewrite setenvif
speling ssl status substitute suexec unique_id userdir usertrack version vhost_a
lias
Which module(s) do you want to enable (wildcards ok)?
rewrite
```

3.3. AllowOverride Directive

The AllowOverride directive must be changed to AllowOverride ALL for the directory where the Virex application is located.

Reference: <http://httpd.apache.org/docs/2.0/mod/core.html#allowoverride>

Please open `/etc/apache2/sites-available/default` in a text editor and add the directive. This is how it should look:

```
<Directory %path_to_Virex%>
    Options Indexes FollowSymLinks MultiViews
    AllowOverride All
    Order allow,deny
    allow from all
</Directory>
```

Note: Apache must be restarted for the changes to take effect.

3.4. MySQL Database

The Virex application requires a MySQL database to store information related to all samples, users and statistics. The database can be created using the command line interface of your operating system and the MySQL software.

First start the MySQL prompt and authenticate yourself:

```
mysql -h hostname -u root -p
```

The second step is to create a new database. The name can be chosen freely. We are using **db_name** as a placeholder in this guide:

```
CREATE DATABASE IF NOT EXISTS db_name;
```

To enable the communication between application and database, a new user should be created. You can use the following command (username and password are placeholders):

```
GRANT ALL PRIVILEGES ON db_name.* TO 'username'@'localhost' IDENTIFIED BY 'password';
```

3.5. PHP

The application is using different PHP modules, they may need to be enabled in the configuration or installed on the server. In case you are using PHP 5.5 or above, the following modules are already part of the PHP core and are enabled by default.

- Reflection (<http://www.php.net/manual/en/reflection.installation.php>)
- SPL (<http://www.php.net/manual/en/spl.installation.php>)
- FileInfo (<http://www.php.net/manual/en/fileinfo.installation.php>)
- PCRE (<http://www.php.net/manual/en/pcre.installation.php>)
- PDO (<http://www.php.net/manual/en/pdo.installation.php>)

- PDO MySQL (<http://www.php.net/manual/en/ref.pdo-mysql.php>)
- GD (<http://www.php.net/manual/en/image.installation.php>)

Please search for the PHP configuration file `php.ini` and open the file in a text editor. Enabling and disabling an extension can be easily done within this configuration file:

```
#extension=%extension_name%.so (UNIX)
#or
#extension=%extension_name%.dll (Microsoft Windows)
```

To enable the extension, just remove the `#` which is the comment in the PHP configuration file. If one of the required extensions is not yet installed, please refer to the installation extractions above.

Note: Changes in the **php.ini** file require a web server restart to take effect.

3.6. Yii Framework 1.1.

The Yii framework is a high-performance PHP framework and is used by the Virex application. It is required that you install the Yii framework version 1.1. to use the Virex application. Please download the latest release from the Yii project page:

<https://github.com/yiisoft/yii/releases>

Unpack the archive and upload the unpacked content from the archive to the Virex **htdocs** directory. There is no additional configuration necessary.

3.7. Chart.js

If you want to use Statistics, you have to download the Chart.js script from here:

<https://cdnjs.cloudflare.com/ajax/libs/Chart.js/2.4.0/Chart.min.js>

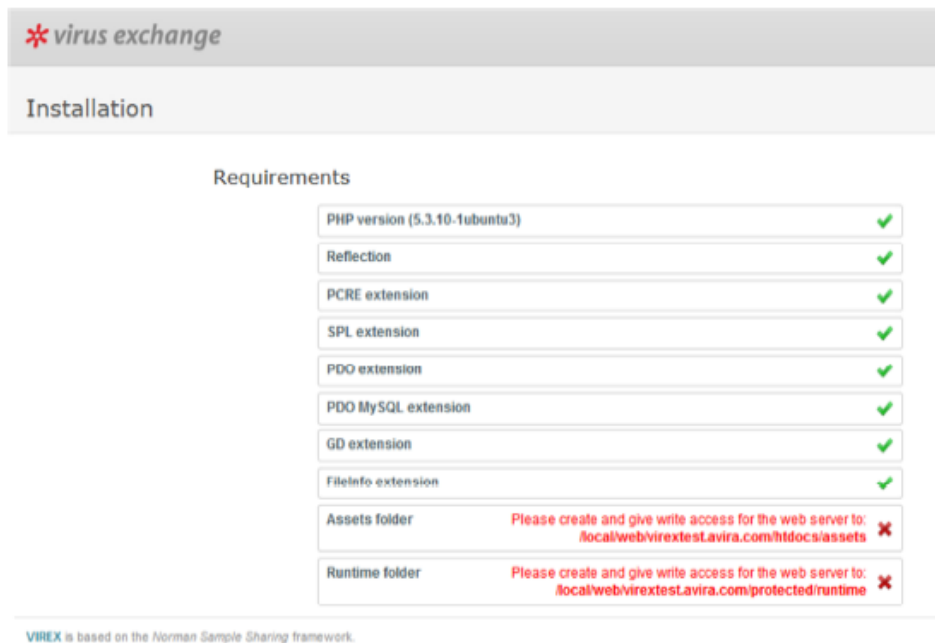
Upload the Chart.min.js file to the `protected/extensions/chartjs2/assets` folder.

4. Installation

After configuring the required software, you can upload the Virex sources to your htdocs directory and continue with the installation.

Please access your web server using the IP or the URL. You will be automatically redirected to the installation script.

The installation page looks like this:



Requirements	
PHP version (5.3.10-1ubuntu3)	✓
Reflection	✓
PCRE extension	✓
SPL extension	✓
PDO extension	✓
PDO MySQL extension	✓
GD extension	✓
Fileinfo extension	✓
Assets folder	Please create and give write access for the web server to: /local/web/virextestLavira.com/htdocs/assets ✗
Runtime folder	Please create and give write access for the web server to: /local/web/virextestLavira.com/protected/runtime ✗

VIREX is based on the Norman Sample Sharing framework.

The installation script will verify that all requirements are fulfilled and guide you through the installation process. All satisfied requirements are indicated by a green check mark.

To finish the requirements check successfully, please create the following directories:


- htdocs/assets
- protected/runtime

and grant write access where your web server is running for those directories. Under Unix it can be done this way:

```
sudo mkdir htdocs/assets protected/runtime log
sudo chown root:apache htdocs/assets protected/runtime log
sudo chmod 775 htdocs/assets protected/runtime log
```


After reloading the page the installation script will check again if the requirements are fulfilled and you can continue the installation.

In the next steps, you will enter some basic information, including the database. The page looks like this:

 **virus exchange**

Installation

Configuration

Database

MySQL host:

MySQL username:

MySQL password:

Database name:

Paths

Yii script full path:

Sample storage path:

Incoming archives path:

Temp path:

Administrator account

Admin email (login):

Admin password:

Install

VIREX is based on the Norman Sample Sharing framework.

The Database section contains all the information about your MySQL database, which was created earlier in this document. If you forget the details, please check your history or server.

The Paths section contains the paths to the Yii framework, the path where you like to store your samples, the path where you will upload new archives to the database and a temporary path for some required operations (e.g., unpacking).

The administrator account will be automatically created after the installation and is required to login to the system. Please enter a valid email address and password.


After finishing the configuration wizard, please click the Install button to create the configuration file. If a directory doesn't exist, you will receive an error message which could look like this:

Configuration

Errors:
- The storage path does not exist and could not be created: /local/web/virextestavira.com/storage

Please resolve any problems and try the installation again.

If the check of the given configuration was successful, a new page will open with the PHP code for the configuration file. It will look like this:

 virus exchange

Installation

Configuration

Please write the following lines in: /local/web/virextest.avira.com/protected/config/config.inc.php and click Done

```

<?php
// Path
define("VIREX_YII_PATH", "/local/web/virextest.avira.com/yii/framework/yii.php");
define("VIREX_STORAGE_PATH", "/local/web/virextest.avira.com/storage");
define("VIREX_INCOMING_PATH", "/local/web/virextest.avira.com/incoming");
define("VIREX_TMP_PATH", "/tmp");

// DB config
define("VIREX_DB_HOST", "localhost");
define("VIREX_DB_NAME", " ");
define("VIREX_DB_USER", " ");
define("VIREX_DB_PASS", " ");

// Other
define("VIREX_URL", "https://virex.api.com");
define("VIREX_PASSWORD_SALT", "d881vg1crus566wF6w4t6r6kN9AdeFe");

```

Done

UNIX systems: You have to copy the PHP code and paste the code to the configuration file, which has to be created. Save it to **protected/config/config.inc.php** and press the **Done** button.

Windows systems: The configuration file will be created automatically. You can continue by pressing the **Done** button.

To create the initial folder structure for the incoming directory, run the following command on the command line:

```
/usr/bin/php %path_to_virex%/protected/commands/console.php archives show
```

The following directories will be created (including subdirectories):

<div>+ clean</div> <div> <div>- bogus</div> <div>- daily</div> <div>- monthly</div> </div>	<div>+ detected</div> <div> <div>- bogus</div> <div>- daily</div> <div>- monthly</div> <div>- urls</div> </div>
--	---

- **bogus**

The bogus directory contains archives/files which couldn't be processed.

- **daily**

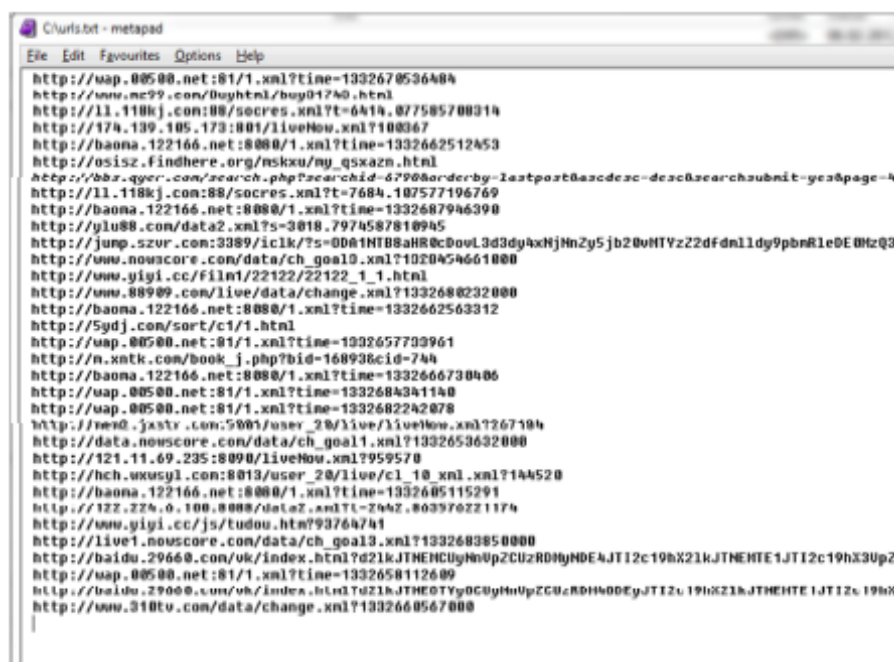
All samples uploaded to the daily directory will be shared with users, which have the right to download daily collections.

- **monthly**

All samples uploaded to the monthly directory will be shared with users, which have the right to download monthly collections.

- **urls**

To share URLs via Virex, you have to upload a text file (containing the URLs in plain text) to this folder. The URLs will be shared with each user who has the right to download URLs.



```

C:\urls.txt - metapad
File Edit Favorites Options Help
http://wap.00500.net:81/1.xml?time=1332670536404
http://www.nc99.com/buyhtml/buy01740.html
http://11.118kj.com:88/secres.xml?t=6414.077585700314
http://174.139.105.173:801/liveNow.xml?100067
http://baoma.122166.net:8000/1.xml?time=1332662512453
http://osisz.findhere.org/nkxu/ny_q5xazn.html
http://bbs.qqer.com/search.php?searchid=6790&orderby=lastpost&azdesc=desc&searchsubmit=yes&page=4
http://11.118kj.com:88/secres.xml?t=7684.107577196769
http://baoma.122166.net:8000/1.xml?time=1332687946390
http://ylu88.com/data2.xml?ts=3018.7974587810945
http://jump.szvr.com:3389/iclk/?s=0061NT88aHR0cDowL3d3dy4xHjHn2y5jb20uMTYz22dfdm1ldy9pbmR1e0E0hzQ3I
http://www.newscore.com/data/ch_goal9.xml?1020454661000
http://www.yigi.cc/Film1/22122/22122_1_1.html
http://www.88909.com/live/data/change.xml?1332680232000
http://baoma.122166.net:8000/1.xml?time=1332662563312
http://5ydz.com/sort/c1/1.html
http://wap.00500.net:81/1.xml?time=1332657793961
http://n.xmth.com/book_j.php?bid=168936cid=744
http://baoma.122166.net:8000/1.xml?time=1332666730406
http://wap.00500.net:81/1.xml?time=1332684341140
http://wap.00500.net:81/1.xml?time=1332682242078
http://news0.jastv.com:5001/user_20/live/liveNow.xml?267104
http://data.newscore.com/data/ch_goal1.xml?1332653632000
http://121.11.69.235:8090/liveNow.xml?959570
http://hch.wxusyl.com:8013/user_20/live/cl_10.xml?144520
http://baoma.122166.net:8000/1.xml?time=1332605115291
http://122.224.0.100.8008/data2.xml?t=244Z.803970221174
http://www.yigi.cc/js/tudou.htm?93764741
http://live1.newscore.com/data/ch_goal3.xml?1332683850000
http://baidu.29660.com/vk/index.html?d2lkJTNEHClyHnUpZCUzRD00yNDE4JT12c19hX21kJTNEHTE1JT12c19hX3UpZi
http://wap.00500.net:81/1.xml?time=1332658112609
http://baidu.29660.com/vk/index.html?d2lkJTNEHClyHnUpZCUzRD00yNDE4JT12c19hX21kJTNEHTE1JT12c19hX
http://www.318tv.com/data/change.xml?1332660567000
  
```

If you also want to share clean samples using the Virex framework, you have to grant users the right to download clean samples.

5. Update

The update process will keep existing users (internally & externally), data for statistics URLs and all the files you have in your current system.

Important: Before starting the update, please make sure that you have a backup of the configuration file. The configuration file can be found in **/protected/config/config.inc.php**.

Afterwards download the sources from the latest release from the Virex GitHub page: <https://github.com/avira/virex>.

You need to delete the files of the previous installation of Virex before starting the update progress. Therefore delete the following directories including the files.

Note: We strongly recommend to create a backup of the files before deleting them.

- /htdocs/
- /protected/commands
- /protected/components
- /protected/controllers/
- /protected/data
- /protected/extensions
- /protected/helpers
- /protected/models
- /protected/runtime
- /protected/sampleshareclient
- /protected/views

Now upload the latest release downloaded from GitHub before to your server.

Note: Statistics changed in the new version of Virex, if you want to use statistics please download the Chart.min.js from:

<https://cdnjs.cloudflare.com/ajax/libs/Chart.js/2.4.0/Chart.min.js> and upload the Chart.min.js to protected/extensions/chartjs2/assets folder.

Please run the following command in order to update the database:

```
/usr/bin/php %path_to_virex%/protected/commands/console.php system update
```

6. Cronjobs

The cronjobs will automatically process new archives with malicious or clean files and automatically process URLs. All cronjobs use the PHP script **console.php**, which is located under **protected/commands/**.

If you are running the Virex application on a Ubuntu server, you can use **sudo -crontab -e** to start the cron table. It's also possible to edit the file **/etc/crontab** directly using a text editor.

6.1. Process Archives

We recommend setting up a job to check every 10 minutes for a new archive in the incoming directory with:

```
* /10 * * * * /usr/bin/php %virex_dir%/protected/commands/console.php archives process &>>
%virex_dir%/log/archives_process.log
```

6.2. Pending Samples

This job is needed to check if pending actions are set in the database (delete file from database etc.):

```
* /10 * * * * /usr/bin/php %virex_dir%/protected/commands/console.php php samples pending &>>
%virex_dir%/log/samples_pending.log
```

6.3. Weekly Statistics

If you want to receive a weekly statistics email, you can set up the new job this way:

```
0 23 * * 0 /usr/bin/php %virex_dir%/protected/commands/console.php samples weeklystats &>>
%virex_dir%/log/samples_weeklystats.log
```

Weekly statistics are generated every Sunday at 23:00.

6.4. Update Statistics in Database

This job updates the traffic/download statistics in the database:

```
0 */3 * * * /usr/bin/php %virex_dir%/protected/commands/console.php dbmaintenance
update_stats &>> %virex_dir%/log/dbm_update_stats.log
```

This job runs every 3 hours.

In these examples **%virex_dir%** is used as a placeholder. Please replace it with the corresponding path on your server.

7. Upload Samples

To upload samples to your Virex system you can either use the FTP/SFTP protocol or use the incoming folder as a network share.

The uploaded archive should be a ZIP archive. The Virex internal unpacker checks the uploaded archive with 200 levels of recursion.

If you want to upload new URLs to the system, you have to upload a text file to the **urls** folder in the **incoming/detected** directory. The URLs have to be inserted in plain text.

The uploaded files will be shared depending on the folder they were uploaded to.

- **incoming/detected/daily** will be shared with all users with “Rights Daily”
- **incoming/detected/monthly** will be shared with all users with “Rights Monthly”
- **incoming/detected/urls** will be shared with all users with “Rights URLs”
- **incoming/clean/daily** will be shared with all users with “Rights Daily && Rights Clean”
- **incoming/clean/monthly** will be shared with all users with “Rights Monthly && Rights Clean”


The fastest method to process the archive is to upload an archive where all files are in the archive’s root.

8. Registration process for external users

On the Virex login page you can find a link **Create new account!** This link allows external users to register an account on your system.

The user has to enter the following information in the formula field:

- Username (used for downloading samples via the Sample Sharing client)
- Company
- Email address
- Password
- Public PGP key
- Verification code

 virus exchange

Register
Fields with * are required.

Username *

Company *


Email *

Password *

Confirm password *

Public PGP Key *

Verification Code *


[Get a new code](#)

Please enter the letters as they are shown in the image above.
Letters are not case-sensitive.

Submit

[Already have an account?](#)
[Reset password!](#)

After pressing the **Submit** button, the system sends a registration link via email to the user's email address. Once the email address is verified, the account will get the status "Pending" in the external users overview site. A notification email will also be sent to all internal users who have the **New account notification** option enabled in their profiles.

If an external user has registered a new account and verified his email address by clicking a link in an initial sent email, the internal users will get a notification email from the Virex system. This email looks like this:

[Virex] New account requested by %user%

Sent: Fr 04.05.2012 08:25
 To:

Dear %username%,

%external_user% requested a new Sampleshare Account for %external_company%.

To review this request click here:
 %virex_url%/externaluser/update/2

For all pending requests click here:
 %virex_url%/externaluser/admin

==

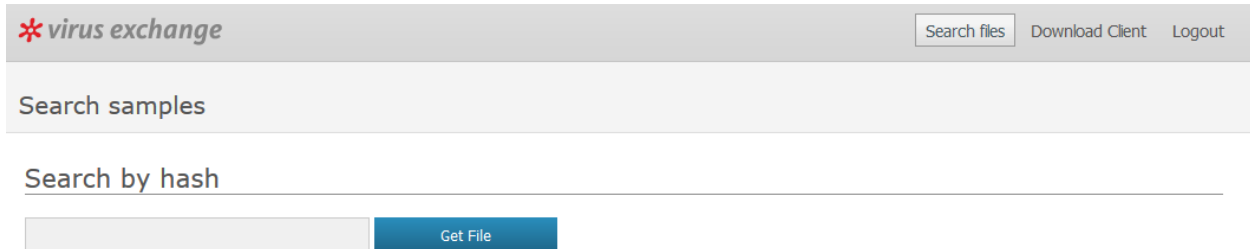
Best Regards,
 Virex Team

The words in "%" are placeholders, which will be replaced by the Virex system automatically.

9. External User interface

After a successful login on your system, the external user has access to a basic web interface. It offers the possibility to search for SHA256 or MD5 hashes, as well as download the Sample Sharing client.

This looks like:



The screenshot shows the top navigation bar with the 'virus exchange' logo, a 'Search files' button, and links for 'Download Client' and 'Logout'. Below the bar is a 'Search samples' section. Underneath, there is a 'Search by hash' label, a text input field, and a blue 'Get File' button.

If the searched hash is known in your system, the encrypted file will be offered for downloading.

9.1. Download Client

The user is able to download a prototype of the Norman Sample Sharing Client Framework.



The screenshot shows the 'Download client' section of the interface. It includes the same top navigation bar. Below the section title, there is a text input field and a blue 'Download' button. A small text label 'For security reasons please insert your password:' is positioned to the left of the input field.

After authenticating with the correct password, the site offers the Client Framework scripts for downloading.

The downloaded scripts contain the following information:

- Username for downloading from your system
- Password for this user
- URL to which the client script should point

The external user has to insert the password for his uploaded PGP key in the **sampleshare.php** script.

This looks like:

```
define('GPG_PASSPHRASE', 'your_passphrase'); // change this to your gpg passphrase
```


10. Usage

The Virex web interface offers you the function to view the samples, manage the debug samples and to manage the internal as well as the external users and view statistics.

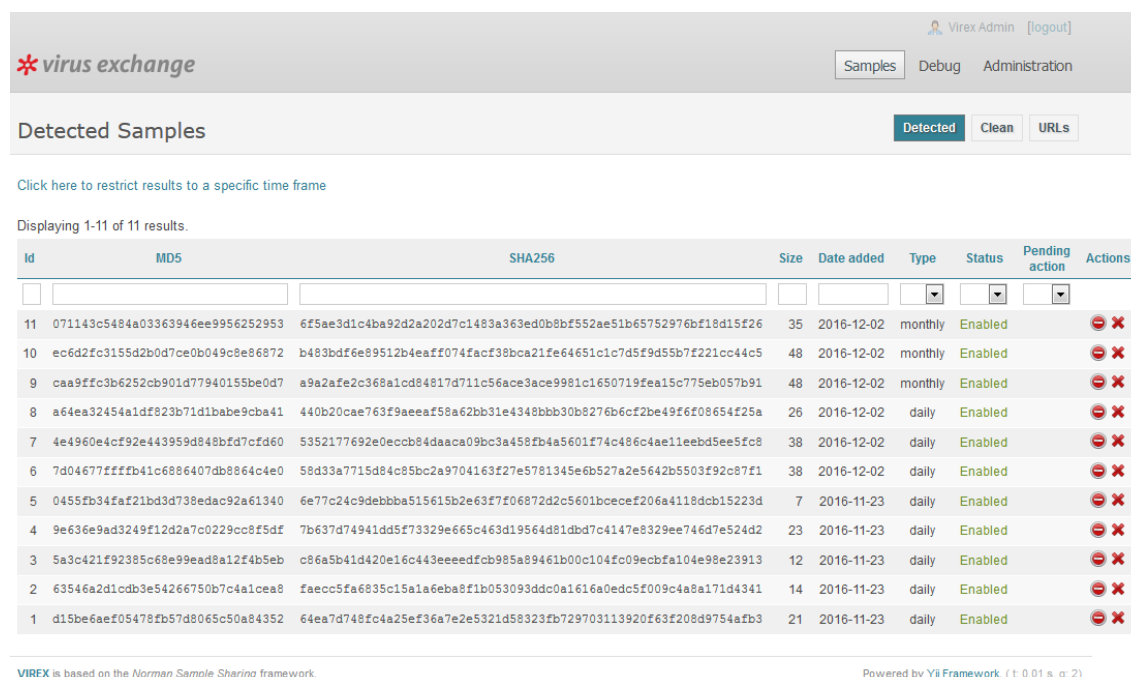
The start page of the web interface looks like this:



Property	Value	Overview
Operating System	Linux	
Web server	Apache/2.2.22 (Ubuntu)	
PHP version	5.3.10-1ubuntu3	
MySQL version	5.5.22-0ubuntu1	
Storage space	34.39 GB / 498.22 GB	7%
System load / CPU usage		1%























10.1. Samples

The Samples view provides information about all uploaded samples and URLs. You can switch the view by clicking the Detected, Clean or URLs button. The displayed tables look similar in each view.




Click here to restrict results to a specific time frame


Displaying 1-11 of 11 results.

Id	MD5	SHA256	Size	Date added	Type	Status	Pending action	Actions
11	071143c5484a03363946ee9956252953	6f5ae3d1c4ba92d2a202d7c1483a363ed0b8bf552ae51b65752976bf18d15f26	35	2016-12-02	monthly	Enabled		 
10	ec6d2fc3155d2b0d7ce0b049c8e86872	b483bdf6e89512b4eaff074facf38bca21fe64651c1c7d5f9d55b7f221cc44c5	48	2016-12-02	monthly	Enabled		 
9	caa9ffc3b6252cb901d77940155be0d7	a9a2afe2c368a1cd84817d711c56ace3ace9981c1650719fea15c775eb057b91	48	2016-12-02	monthly	Enabled		 
8	a64ea32454a1df823b71d1babe9cba41	440b20cae763f9aeef58a62bb31e4348bbb30b8276b6cf2be49f6f08654f25a	26	2016-12-02	daily	Enabled		 
7	4e4960e4cf92e443959d848bfd7cfd60	5352177692e0eccb84daaca09bc3a458fb4a5601f74c486c4ae11eebd5ee5fc8	38	2016-12-02	daily	Enabled		 
6	7d04677fffcb41c6886407db8864c4e0	58d33a7715d84c85bc2a9704163f27e5781345e6b527a2e5642b5503f92c87f1	38	2016-12-02	daily	Enabled		 
5	0455fb34faf21bd3d738edac92a61340	6e77c24c9debbba515615b2e63f7f06872d2c5601bcecef206a4118dcb15223d	7	2016-11-23	daily	Enabled		 
4	9e636e9ad3249f12d2a7c0229cc8f5df	7b637d74941dd5f73329e665c463d19564d81dbd7c4147e8329ee746d7e524d2	23	2016-11-23	daily	Enabled		 
3	5a3c421f92385c68e99ead8a12f4b5eb	c86a5b41d420e16c443eeedfcb985a89461b00c104fc09ecbfa104e98e23913	12	2016-11-23	daily	Enabled		 
2	63546a2d1cdb3e54266750b7c4a1cea8	faecc5fa6835c15a1a6eba8f1b053093ddc0a1616a0edc5f009c4a8a171d4341	14	2016-11-23	daily	Enabled		 
1	d15be6aef05478fb57d80650a84352	64ea7d748fc4a25ef36a7e2e5321d58323fb729703113920f63f208d9754afb3	21	2016-11-23	daily	Enabled		 

VIREX is based on the Norman Sample Sharing framework. Powered by Yii Framework. (t: 0.01 s; q: 2)

It is possible to perform different actions on a sample.

 Clicking this icon disables a single file for sharing. The file is still present on the system, but an external user cannot download it.

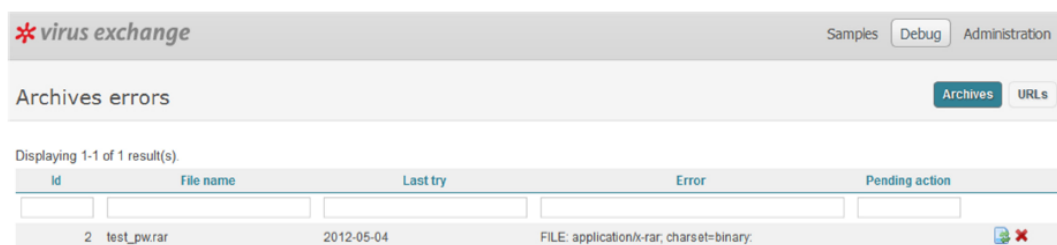
 Clicking this icon removes a file from the database as well as the file storage.

The functionality is similar in the **Clean** and **URLs** table.



Clicking on **Click here to restrict results to a specific time frame** opens a menu where you can select a time frame. Afterwards only files uploaded in this time frame will be displayed.

10.2. Debug

The **Debug** view provides information on broken archives or URL text files. You can switch the view by clicking the **Archives** or **URLs** button.



The screenshot shows the 'Archives errors' section of the Virus Exchange interface. It includes a table with columns: Id, File name, Last try, Error, and Pending action. One entry is visible with Id 2, File name test_pw.rar, Last try 2012-05-04, and Error FILE: application/x-rar; charset=binary. There are also buttons for 'Archives' and 'URLs'.

Id	File name	Last try	Error	Pending action
2	test_pw.rar	2012-05-04	FILE: application/x-rar; charset=binary.	 

It is possible to perform different actions on an archive or URL file.



Retry processing file

Clicking this icon will trigger the Virex system to reprocess the archive or URL file.



Delete bogus archive/file

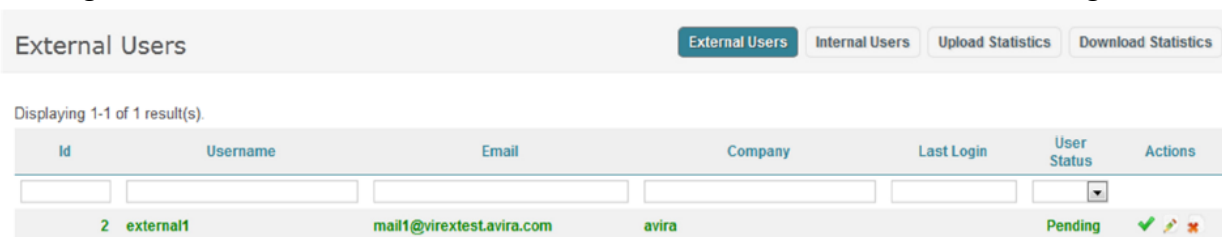
Clicking this icon will remove the uploaded archive or URL file from the system.

10.3. Administration




The Administration view provides information on external users, internal users, upload statistics and download statistics.

10.4. External Users

Clicking the External Users view in the Administration section will show the following table:



The screenshot shows the 'External Users' section of the Virus Exchange interface. It includes a table with columns: Id, Username, Email, Company, Last Login, User Status, and Actions. One entry is visible with Id 2, Username external1, Email mail1@virextest.avira.com, Company avira, Last Login Pending, and User Status Pending. There are also buttons for 'External Users', 'Internal Users', 'Upload Statistics', and 'Download Statistics'.

Id	Username	Email	Company	Last Login	User Status	Actions
2	external1	mail1@virextest.avira.com	avira	Pending	Pending	  

As you can see, the user status is set to “Pending,” since the account is waiting for confirmation. This view offers three actions for an external user.

**Enable user**

Clicking this icon will activate the user account with rights to download daily and monthly collections by default.

**View/edit user details**

Clicking this icon will open the User details page. You can define specific rights and sharing dates in this overview.

**Delete account**

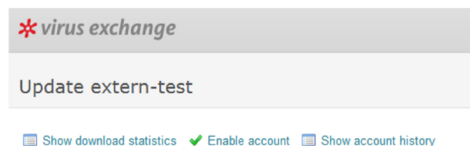
Clicking this icon will remove the user account.

10.5. View/Edit User Details

Clicking the View/Edit icon opens a new page with all user details.

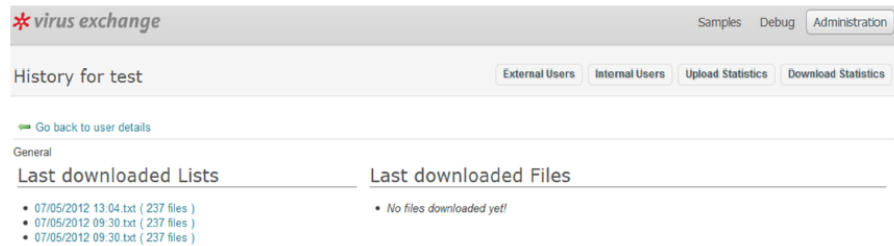
You are able to:

- Change the PGP key
- Change password
- Show download statistics
- Enable account (if status is pending)
- Show account history
- Change user rights
- Set a limitation date



Download statistics

The user download statistics page shows the last requested file lists as well as last downloaded files.



Enable account

Clicking this link enables the account for downloading samples from the Virex system.

Account history

The account history shows an archive of activities for an account. Events such as “Account created” or “Email validated” are displayed in this overview.

10.6. User Rights

Access is separated into four independent user rights:

A. Daily

The user is able to download samples with status daily.

B. Monthly

The user is able to download samples with status monthly.

C. Clean

The user is able to download samples uploaded to the clean folder. The clean right must be combined with one or more of the other rights (according to the frequency at which you want to share clean samples).

D. URLs

The user is able to request malware URLs from the Virex system.

Limitation date


The limitation date marks the beginning of the time frame in which a user can request samples from your server. This value is set to the registration date by default. If you want the user to have access to a higher or lower number of samples, you can change the limitation date to another date.

All changes (except enable account) have to be confirmed by pressing the **Save Changes** button.


10.7. Internal Users

An internal user in the Virex system has the same rights as the system administrator. Each internal user is able to create new internal users, enable/change external users and generate statistics. To create a new internal user, go to the Internal Users view and click Add a new user.

Manage Internal Users

 [Add a new user](#)

Enter the new user's account details.

 **virus exchange**

New user

Account details

First Name *

Last Name *

Email *

Enabled

☐

Notifications

Errors

☐

New Account Request

☐

Create

Checking/Un-checking the Enabled checkbox enables or disables the user.

10.8. Notifications

There are two types of notifications a user can receive.

Errors

If a user checks this box, he will receive an email notification if an error occurs in the Virex system.

New Account Request

If a user checks this box, he will receive an email notification when an external user has requested a new account.

After pressing the **Create** button, the new internal user will receive an email with an 8-digit generated password.

10.9. Statistics

The Virex system offers several statistics for internal users. Statistics are accessible via the **Administration** view.

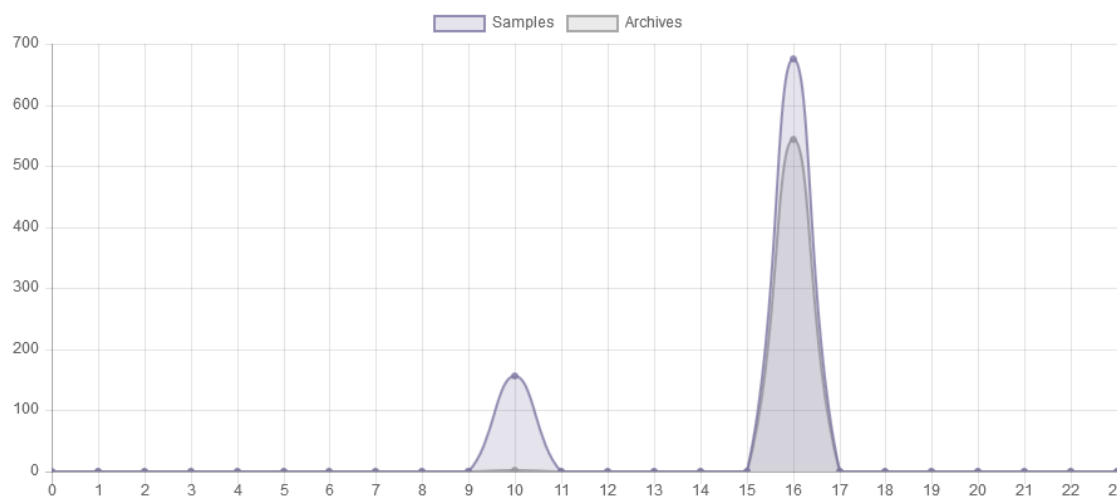
Upload Statistics

The **Upload Statistics** view provides statistics for archives/files uploaded to the Virex system. It's possible to generate statistics for:

- Number of files uploaded
- Average sample size
- Average archive size
- Total file size

It's possible to restrict the statistics to a defined timeframe and group them by hour, day, week or month.

A statistic for uploaded files on a specific day, grouped by hour could look like this:



Download Statistics

The Download Statistics view provides statistics for files downloaded by external users. It's possible to generate statistics on:

- Number of files
- File size (traffic)

Statistics can be limited to a defined timeframe and grouped by hour, day, week, month or user. Statistics for a specific user can be displayed by selecting the user in the User dropdown menu.

