

NORMAN[®]

Sample Sharing Initiative

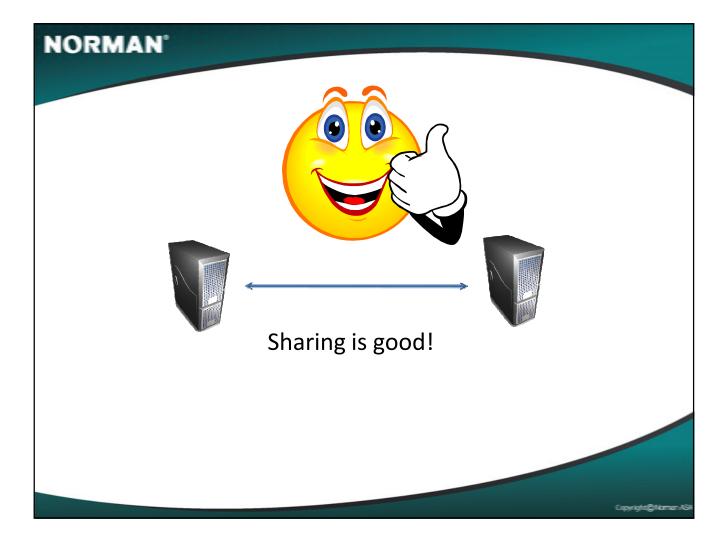


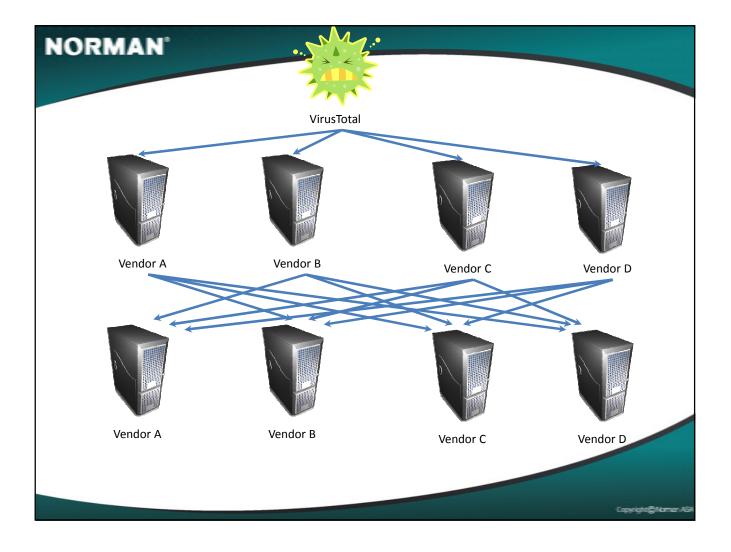
CARO 2010 Workshop May 26 and 27, 2010 Helsinki, Finland

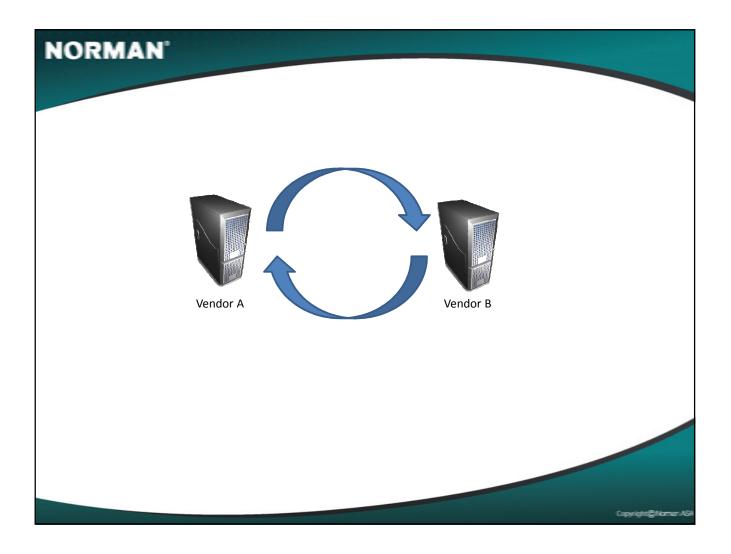
Trygve Brox Lead Programmer – Internal Systems

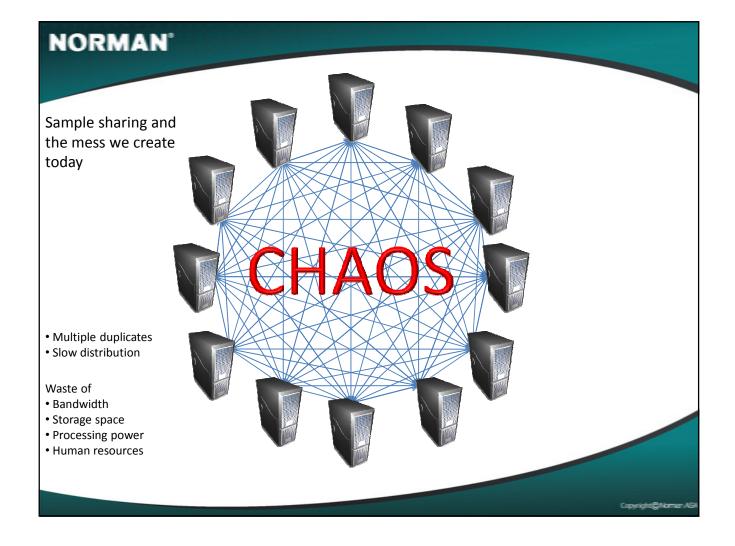
> **Righard Zwienenberg** Chief Research Officer

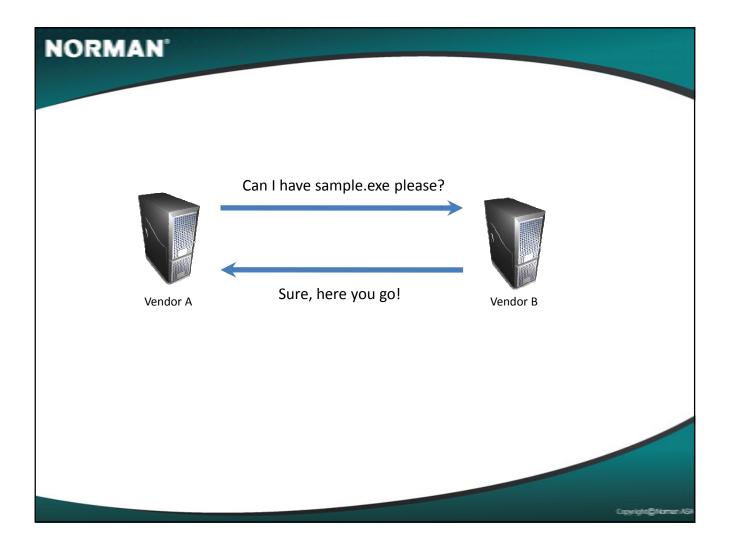


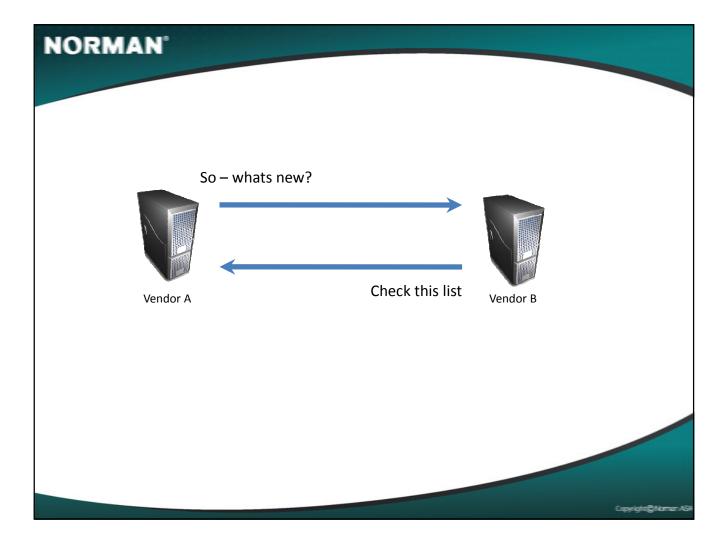


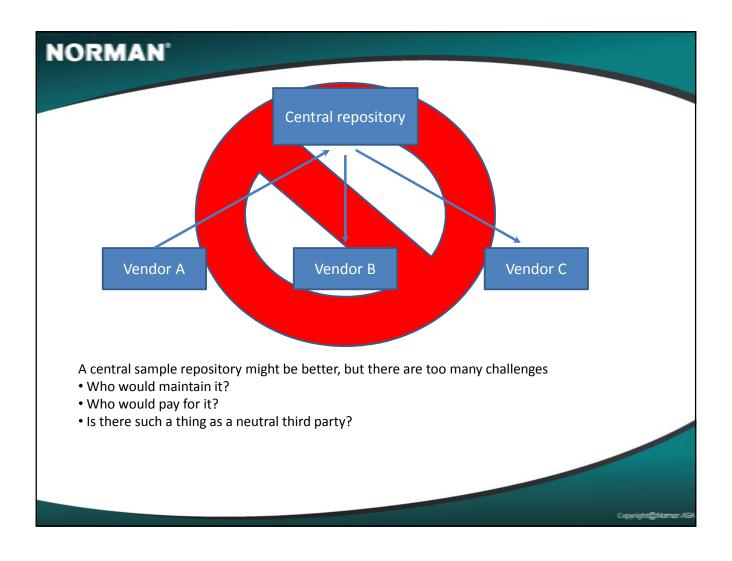


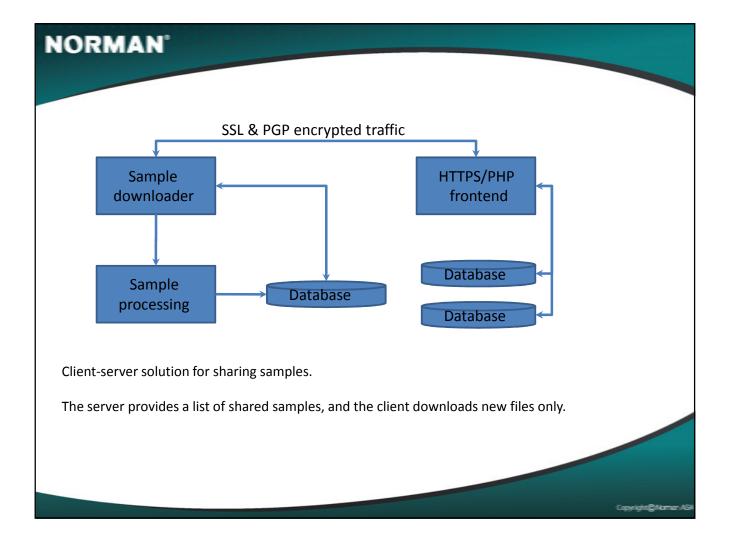












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For our project we have made the following choices:

Software:

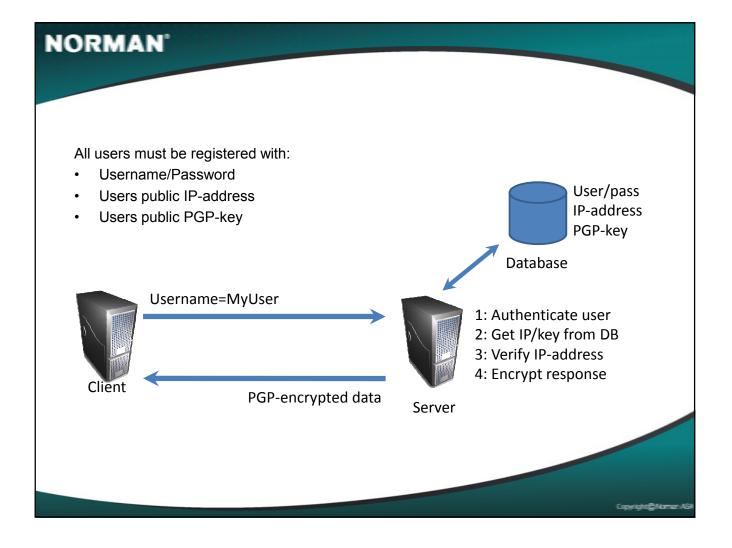
Apache, MySQL and GnuPG – Open Source and well known. Can be installed on both Linux and Windows.

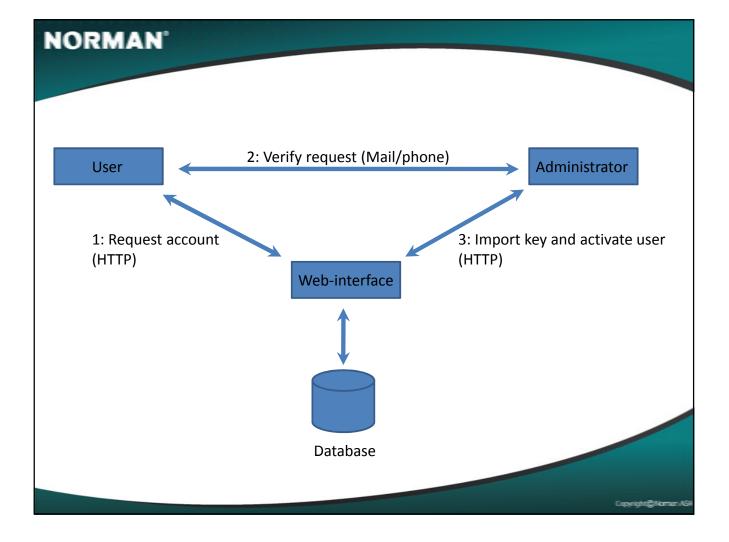
Network protocols: HTTPS – Security for free, and completely platform independent

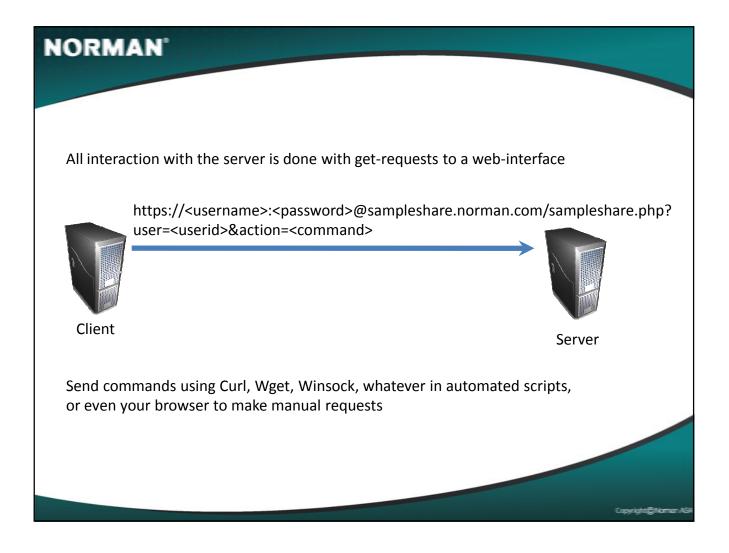
Script language: PHP & Curl – Well known and very simple

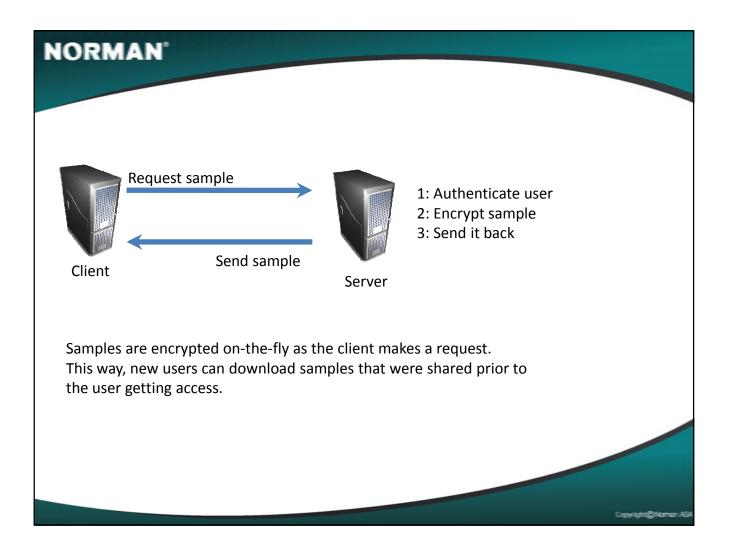
We will provide PHP-classes, example-code and documentation. The supplied code can be used with minimal effort, or you can make your own implementation using your favourite language.

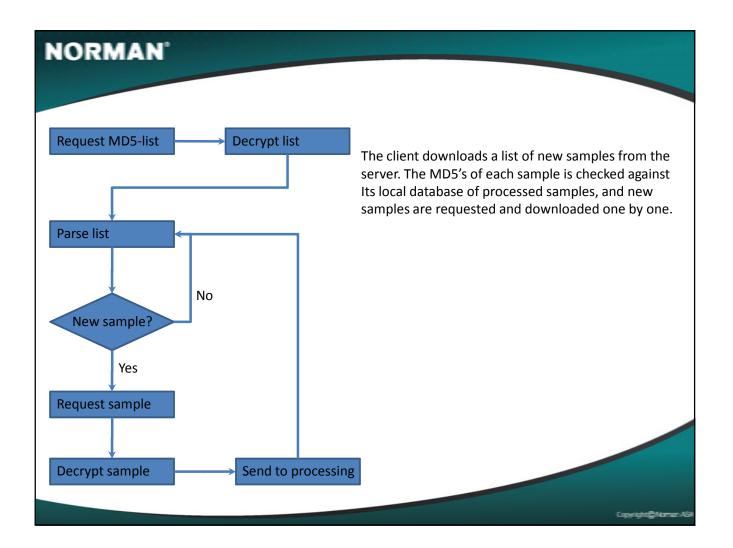
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Client example code

<?php

include('sampleshare.inc');

\$share = new SampleShareObject();

\$share->set_dates("2010-04-05 00:00:00","2010-04-06 00:00:00"); \$share->set_http_user("<user>","<password>"); \$share->set_url("sampleshare.norman.com/auth/sampleshare.php"); \$share->set_download_directory("d:/sampleshare/incoming");

\$share->get_list();

echo "\$share->md5count samples found. Starting download.. \r\n\r\n";

foreach(\$share->md5list as \$entry) {
/* Your code to determine if a file should be downloaded */
if(\$download_this_file==true) \$share->get_file(\$entry["md5"]);

\$share->print_avg_speed();

?>

}

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Client output - local network

C:\PHP>php sampleshare.php

Requesting files shared between 2010-04-05 00:00:00 and 2010-04-06 00:00:00.. 300 samples found. Starting download..

Downloaded 521.74KB in 0.453 seconds at 1151.75KB/sec Downloaded 21.19KB in 0.046 seconds at 460.62KB/sec Downloaded 41.89KB in 0.062 seconds at 675.70KB/sec Downloaded 42.25KB in 0.062 seconds at 681.53KB/sec

....

Downloaded 58.08KB in 0.094 seconds at 617.87KB/sec Downloaded 15.39KB in 0.047 seconds at 327.40KB/sec Downloaded 65.23KB in 0.093 seconds at 701.35KB/sec Downloaded 926.65KB in 0.733 seconds at 1264.19KB/sec Downloaded 14.96KB in 0.046 seconds at 325.30KB/sec Downloaded 406.00KB in 0.359 seconds at 1130.91KB/sec Downloaded 568.58KB in 0.453 seconds at 1255.14KB/sec Downloaded 109.83KB in 0.14 seconds at 784.52KB/sec Downloaded 2.65MB in 1.95 seconds at 1390.03KB/sec

Downloaded 300 files/140.60MB in 76 seconds at 1.85MB/sec

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Client output - remote download

C:\PHP>php sampleshare.php

Requesting files shared between 2010-04-05 00:00:00 and 2010-04-06 00:00:00.. 300 samples found. Starting download..

Downloaded 521.74KB in 1.107 seconds at 471.31KB/sec Downloaded 21.19KB in 0.078 seconds at 271.65KB/sec Downloaded 41.89KB in 0.125 seconds at 335.15KB/sec Downloaded 42.25KB in 0.125 seconds at 338.04KB/sec

...

Downloaded 606.85KB in 1.31 seconds at 463.24KB/sec Downloaded 759.56KB in 1.607 seconds at 472.66KB/sec Downloaded 865.73KB in 2.059 seconds at 420.46KB/sec Downloaded 24.45KB in 0.109 seconds at 224.30KB/sec Downloaded 474.03KB in 1.045 seconds at 453.61KB/sec Downloaded 1.13MB in 2.387 seconds at 482.66KB/sec Downloaded 448.57KB in 0.998 seconds at 449.47KB/sec Downloaded 508.65KB in 1.17 seconds at 434.75KB/sec Downloaded 3.63MB in 7.675 seconds at 484.29KB/sec

Downloaded 300 files/140.60MB in 283 seconds at 506.97KB/sec

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NORMAN[®] Client example code – multiple files per request <?php include('sampleshare.inc'); \$share = new SampleShareObject(); \$share->set_dates("2010-04-05 00:00:00","2010-04-06 00:00:00"); \$share->set_http_user("<user>","<password>"); \$share->set_url("sampleshare.norman.com/auth/sampleshare.php"); \$share->set_max_blocksize("134217728"); \$share->set_download_directory("d:/sampleshare/incoming"); \$share->getlist(); foreach(\$share->md5list as &\$entry) { /* Your code to determine if a sample should be downloaded here */ if(\$download_this_sample==true) \$entry["download"]=true; } \$share->get_files_by_list(); echo "Downloaded \$share->total_download_files samples/\$share->total_download_size in \$share->total_download_time seconds at \$share->total_download_avg_speed\r\n"; ?> Copyright@Nomen

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Client output - remote download with multiple files per request

C:\PHP>php sampleshare.php

Requesting files shared between 2010-04-05 00:00:00 and 2010-04-06 00:00:00.. 100 samples found. Starting download..

Downloading 100 files (62.44MB decrypted).. Ok!

Downloaded 72.96MB bytes in 119.388 seconds at 625.78KB/sec

Decrypting file with MD5 0FD216A2B4FBDB3F46C872D5F34F9FF4 - Filesize is 0000534266 bytes.. Done! Decrypting file with MD5 7873C4FFEC9996E5F36E63F736FEB4F2 - Filesize is 0000021697 bytes.. Done! Decrypting file with MD5 5FA6D328EFB6210D69ECAC90DF510F88 - Filesize is 0000042899 bytes.. Done! Decrypting file with MD5 02D05E8C3BA83DD3D7394C6A63433E66 - Filesize is 0000043269 bytes.. Done!

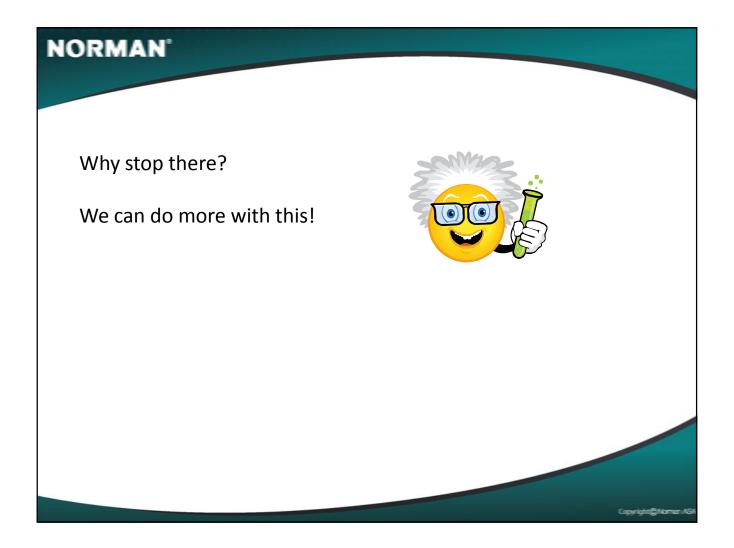
···· ...

> Decrypting file with MD5 4ED4F0F6364DEFE75D0F3CB0D9DF1FA1 - Filesize is 0000485403 bytes.. Done! Decrypting file with MD5 26CD4C92D8BEAE2959F54A760CFC90A9 - Filesize is 0001179769 bytes.. Done! Decrypting file with MD5 6A7BF92358DDF23FDF8A2855FB824316 - Filesize is 0000459338 bytes.. Done! Decrypting file with MD5 8DE5707AA8FA1D7A48CAA45311E3202A - Filesize is 0000520860 bytes.. Done! Decrypting file with MD5 610FCA9992879FFBADAB8B6A334899BA - Filesize is 0003806167 bytes.. Done! 300 of 300 files downloaded

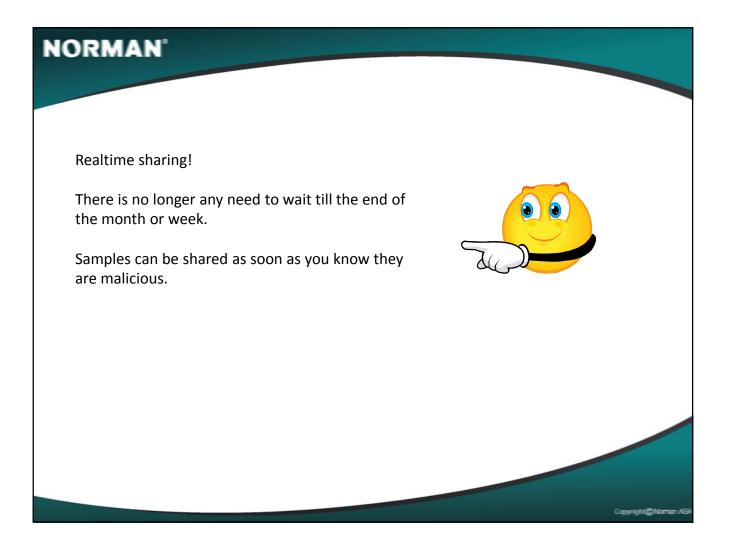
Downloaded 300 samples/140.60MB in 162 seconds at 888.76KB/sec

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Sample callback	
</th <th></th>	
 function myCallback(\$md5) { global \$share /* Your code in here */ }	
 \$share->set_sample_callback("myCallback");	
··· ?>	
Users can optionally specify a callback that will be called for each downloaded sample instead of waiting for the entire script to finish before sending samples to processing.	
	Capyright (Citome n AG



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Interface for	nanual sample requests	
https://samplesh		
MD5:	Request sample	
Enables user	to request single files of special interest	
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Second and the secon

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Who is using it or who will?

-McAfee

-Sophos

-K7

-Andreas Marx

Who is next?

