

Final Report

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A Communication Framework for Collaborative Defense

Final Report, PI: K. G. Anagnostakis, Project end date: February 28th, 2008

(2) Objectives

The goal of this project was to explore the potential for a collaborative approach to network defense. The primary focus of this research was in network traffic classification with the intention of supporting advanced policy enforcement capabilities. The technical approach involved a multi-site testbed of live traffic monitoring systems and the design of algorithms for classifying flows to applications, and for generating signatures for previously unclassified clusters of network traffic.

(3) Status of effort

The effort is currently reaching a mature prototype stage with well-tested algorithms, an extensive test traffic archive, over 1,800 applications classified, Gbit/s capable classification, and live trials on 4 sites with more than 40,000 users. Further development is necessary to turn the research artifact into a production-quality system.

(4) Abstract

The goal of this project has been to implement a collaborative automated signature generation system for deep packet inspection systems. In this report we summarize our results at the conclusion of this project. Briefly, the primary goal of achieving a significant level of automation was successfully achieved, although it proved to be more complex than originally perceived. We have been able to provide sufficient automation to be able to build up the most extensive application signature database in the world with a fraction of our competitors resources. Our approach has been tested extensively using real network traffic from internal networks, trial sites, and networks from which we have received confidential network traffic samples.

(5) Personnel Supported

The project supported the efforts of the project team led by Dr. Anagnostakis, and involved research engineers Kirk Jon Khu, Christos Ricudis, and PhD students Saurabh Aurora, and Asia Slowinska.

(6) Publications

The main results of this research are currently in preparation for journal submission. Indirect results from this research (e.g., studies using data produced by the algorithms in this research) are published in the following venues:

- V. T. Lam, S. Antonatos, P. Akritidis, K. G. Anagnostakis, **“Puppetnets: Misusing Web Browsers as a Distributed Attack Infrastructure”**, to appear in ACM Transactions on Information and Systems Security (TISSEC), 2009
- H. Bos, B. Samwel, M. Cristea, K. G. Anagnostakis, **“Safe execution of untrusted applications on embedded network processors”**, in International Journal on Embedded Systems, Vol. 3, No. 4, 2008
- E. Athanasopoulos, A. Makridakis, S. Antonatos, D. Antoniadis, S. Ioannidis, K. G. Anagnostakis, and E. P. Markatos. **“Antisocial Networks: Turning a Social Network into a Botnet”**, in Proceedings of the 11th Information Security Conference (ISC’08), September 2008

(7) Interactions

- (a) participation in ISC'08, CSIIRW'08, and visits to UPenn (USA), GMU (USA), and NICT (JP)
- (b) algorithms are further evaluated on real network traffic as part of projects funded by A*STAR and other public R&D funds.

(8) Inventions

None.

(9) Honors/awards

No honors or awards in reporting period.

(10) Archival Documentation

1. Background

Application fingerprinting and identification from network traffic they generate has always been important for ISPs. Recently, the problem of traffic classification has been attracting a lot of attention due to the popularity of novel P2P applications including content streaming and voice over IP (VoIP). The high network connectivity and traffic imposed by these applications have forced many network operators and ISPs towards application profiling with the intention to control the resource consumption on their networks.

There are at least three factors that make application identification both interesting and challenging. First, as new applications emerge at an ever increasing rate, particularly in the P2P space, coming up with signatures for new types of traffic is increasingly time consuming and becomes a bottleneck as signature development, testing and deployment is usually done manually. Second, applications that are generally regarded as undesirable (and are therefore rate-limited or blocked by operators) are starting to employ encryption and other methods for cloaking their identity. Third, some of these applications often consume huge amounts of bandwidth in unpredictable ways that might interfere with proper congestion-controlled traffic. It is conceivable that a very popular application might even bring the network to congestion collapse regimes.

Currently, fingerprints are developed manually by eyeballing application traces. As new applications emerge, new fingerprints need to be developed, and the process can be quite tedious and time-consuming if performed manually.

2. Approach

The original plan at the beginning of the project was to utilize a preliminary implementation of a signature generator that relies on rabin fingerprints[2] for picking up common subsequences across multiple network flows stored in an offline trace. The resulting algorithm, code-named EAR, was applied on a preliminary dataset and was deemed to be promising. The original goal of the project was therefore to build around that algorithm to support increased automation and the ability to operate on real network traffic.

2.1 Interface to DPI engine and support functionality

A prerequisite for this functionality to be implemented is the availability of a suitable DPI engine for application characterization. Although not part of the original proposal or the project deliverables, we have indeed built the necessary engine with the functions needed to support signature generation. These include a) the ability to separate known from unknown traffic, b) the ability to record that unknown traffic for further analysis, c) the ability to operate on both live and offline data through the same interface, d) the ability to test potential signatures for conflicts against other types of traffic.

All these functions are successfully implemented as part of the overall CUB4 engine. Separating known from unknown traffic involved implementing a large part of an actual DPI system. Although there are still many loose ends on this front, the implementation of the core engine is currently mature enough to support live traffic classification at gigabit speeds on commodity hardware.

A special module, called the “dumper” provides the facility for recording traffic to secondary storage for analysis. When a packet arrives from the “raw” channel (through “dumper_recv”) we check the status of the parent flow to determine what to do with the packet. If the flow is already classified and we are interested in the flow, we need to dump the packet to disk. If other packets of the same flow were buffered pending a decision on this flow, we first have to flush the buffer before writing the current packet. From this point on, packets arriving for this flow do not need to be buffered but are sent straight to either disk or are dropped.

We use two pre-allocated buffer pools for packets of different sizes to hold up incoming packets until a decision has been made. These are organized as linked list for $O(1)$ allocation and freeing of buffers back to the pool. We don't care about sequence at this point (there could be locality issues but it doesn't seem to be affecting us in a big way at the moment).

When a buffer is allocated to hold a packet of a particular flow, we also link it through the internal “flow_t” data-structure so that we can instantly find the list of buffered packets for that flow as soon as a decision can be made on the flow. As we cannot hold on to packets forever, there is a limit to how much data we'll keep for a flow before having to make a decision. At this moment the default policy is to nudge the detectors to make a decision, by sending them a distress signal, equivalent to a flow timeout/reset. This may affect results in some cases, as without the dumper they would be left alone and could take different decisions.

Special provisions have also been made to filter out flows for which packet loss events have been detected, as such flows can confuse the signature generator. Such problems may occur because the signature generator will try to find good signatures that cover 100% of the traffic, and under moderate loss those parts of the traffic that are lost may contain the otherwise good signature. This functionality is optional, as one may want to try producing signatures that operate well under high load and potential packet loss. A second special provision is the ability to cap the amount of traffic dumped to secondary storage for a particular flow. This is necessary to reduce storage requirements, and it is also sensible as classification has to be completed as early in the lifetime of a flow as possible.

For evaluating new signatures, we have implemented a conflict detection and resolution component, which can handle cases where more than one signatures belonging to different applications match the same flow. In this case, at least one of the two signatures must be wrong, or neither signature is accurate enough to identify only the traffic of the application it is supposed to detect. For all practical

purposes, conflicts are useful for evaluating signature quality and provide useful information for signature fine-tuning.

With this infrastructure in place, it becomes possible to run our engine live on a network, collect all unclassified traffic, and process that traffic in an attempt to find new applications and fingerprint them, or identify flows that belong to existing applications but for which the existing signatures do not perform well.

2.1 The EAR algorithm

The EAR algorithm takes a content-sifting approach that extracts protocol fingerprints for specific applications. The tool takes as input a set of candidate packet traces containing traffic generated by the application to be analyzed, and a set of control traces containing traffic other than the application in question.

The goal of our technique is to determine substrings within a candidate packet trace of a particular application whose existence indicates that a given packet or flow is generated by a particular application. For this purpose, our tool searches the trace for substrings that appear frequently enough to be considered as an application signature. For a given desired length of the signature, and for each packet in the application trace, we consider each substring of the desired length at each position within the packet, and record its occurrence in a cache structure.

2.1.1 Basic operation

To efficiently perform this kind of scanning within a packet trace, we rely on rabin fingerprints. Rabin fingerprints provide a form of a rolling hash of a given size within a stream of larger size. The main idea is to use appropriately selected polynomials so that the rolling hash can be formed as a sum of the value in each position, and with the ability to easily add the next incoming (e.g., rightmost) value and remove the outgoing (e.g., leftmost) value. This can be easily done with prime arithmetic. Rabin fingerprints have been used in similar problems such as content caching, and worm detection. Our own experience, and inspiration to use rabin fingerprints for generating content signatures, comes from the former domain. However, although in both domains we have based our detectors on the use of rabin fingerprints, the problem of worm vs. application signature generation differ in many ways.

As application signatures are not of a pre-determined size we use separate fingerprints for each substring length between a minimum and a maximum. For each incoming and outgoing byte we therefore need to update several distinct rabin fingerprints. The added cost is not a major cause for concern, as the fingerprinting process is performed offline, but it is desirable to not inflate the cost too much. Fortunately, larger signatures can be composed from smaller ones in a post-processing phase, and therefore it is not absolutely necessary to include a large range of substring sizes during basic scanning. At this stage it is only important to pick the minimum size appropriately to avoid overloading the cache on one hand, while on the other hand making sure that good fingerprints make it through to the second phase for signature construction.

Rabin fingerprints are also convenient for supporting offset constraints and providing limited support for regular expressions. An offset-constrained fingerprint is a fingerprint that always occurs at the same offset within a packet or flow. This is expected to be common at least for some network protocols, and is therefore worth giving a try for fingerprinting an application. This allows for more focused signature

generation (e.g., a lower chance of missing the fingerprint during the search due to cache size constraints), operational efficiency (e.g., faster inline search on real traffic), and fewer false positives (e.g., a more well-defined fingerprint is less likely to misclassify traffic of other applications). If no offset-constrained fingerprint is found, then the search can be repeated without this constraint. To support offset constraints all that needs to be done is for the rabin fingerprint value to be supplemented by the offset as the most-significant byte (or byte-pair, for offsets greater than 255) or by otherwise incorporating the offset in the fingerprint value, for example through a XOR operation.

A subset of the regular expression space can also be supported. The basic idea is that we can easily mask out specific bytes from the rabin fingerprint by multiplying out the right factor. Our current implementation uses this idea to support expressions of the form `{A?????B}` where `{A}` and `{B}` are fixed and there is a specific number of "middle" bytes considered as variable. Other forms of regular expressions can also be supported; we will discuss this briefly along with second-phase fingerprint post-processing.

2.1.2 Signature selection heuristic

The heuristic for selecting fingerprints works as follows. If the substring is seen more than a specified number of times within a flow, and a more than a specified number of times across flows, then it is considered as a *candidate* fingerprint. The idea here is that there may be different forms of fingerprints: some applications may have specific "magic numbers" or protocol message identifiers in each packet; other applications may only have an identifying pattern once within each flow; other applications may use separate connections for control and data, or different connections for different types of data. We do not have any insights into whether one form or another is common, or whether one of the above forms is sufficient by itself. The tool should therefore be able to capture all these patterns. One way to do this is by running the tool with different settings. For efficiency purposes, we provide basic support for thresholding on packet and flow counts. Our experience suggests that requiring at least 30 instances of each fingerprint across at least 2 flows works well in most cases. That is, we rely on relatively high sensitivity at this level for selecting candidate signatures. This means, however, that this process will not be able to point by itself to a minimum set of signatures, or a single signature, which would be ideal. Some further most processing on the candidate signatures will be required. We will return to post-processing later in this section. An alternative to having a second-phase analysis would be to run the tool with different sensitivity parameters, decreasing sensitivity until we are left with the minimum number of good fingerprints.

2.1.3. Cross-trace fingerprinting

We also allow for the use of multiple, independent traces. The idea here is that some applications may have substrings that conform to the above pattern, e.g., appearing frequently enough within and across flows, but some of these substrings may be specific to the trace under consideration, for example, because the local IP address is somehow encoded in a protocol message in a way that makes it a pattern, or because the specific file being transferred between P2P clients is the same across the trace. The use of independent traces is expected to filter out such patterns, as they are not invariant across traces. The additional constraint imposed for this in terms of selecting candidate signatures is that each potential fingerprint needs to appear not just across packets or flows, but also across traces.

Application	Result
PPLive	OK
PPStream	OK
TVAnts	OK
TVKoo	OK
Emule	OK
BT Vampire	OK
BitSpirit	OK
Thunder	OK
Limewire	OK
Morpheus	OK
Feidian	OK
CCIPTV	OK
QQLive	OK
PPMate	NO 100% FILTERING
uTorrent	NO 100% FILTERING

Application	Result
Azureus	NO 100% FILTERING
GreedBT	NO 100% FILTERING
TurboBT	NO 100% FILTERING
Kugoo	NO SIGNATURES
Shareaza	NO SIGNATURES
Flashget	NO SIGNATURES
Joost	NO SIGNATURES
Bittorrent-encrypted	NO SIGNATURES
Emule-obfuscated	NO SIGNATURES
FlashBT	missing file
WinMX	account needed
Bittorrent Plus 2	account needed
BitComet	cannot connect to servers
BT Engine	payment needed

Figure 1: Evaluation of EAR fingerprinting algorithm on a variety of applications

2.1.4. Fingerprint cache management

Appropriate design of the fingerprint cache structure is of paramount importance. The tool will have to process large amounts of trace data, in the order of several GB, with each packet generating a number of candidate fingerprints equal to the number of bytes in the packet (minus network-layer headers and the substring length). Each fingerprint needs to be recorded in the cache structure, and to facilitate selection it is necessary to also store additional information such as the flows in which each substring was observed. As we look for patterns across traces, it is also important to record which traces a fingerprint has been identified in.

Our cache structure is designed to be adaptive. We assume that most substrings will not be useful, as they do not appear frequently enough. Thus, new entries should consume a minimum amount of space. Entries that are observed more than a specified number of times will then expand the cache element size to include further information on which flows it was encountered, and instead of statically allocating a certain number of slots for flow information for each fingerprint, We dynamically re-dimension the cache element for this purpose each time we hit the current limit. Eviction is triggered not only when the cache is full, but also when the cache utilization hits a certain level, as we rely on a relatively narrow hash-table and performance degrades as the hash-table becomes heavily populated. Eviction follows an least-recently-used policy, but we also employ *pinning* of "interesting" fingerprints -- those that have crossed a first set of thresholds, so that it is guaranteed that they are not accidentally evicted.

Despite being fine-tuned, the cache structure has its limitations, which affect how the tool should be used. The objective is to prevent the cache from getting so full that important fingerprints are somehow replaced and therefore not considered as candidate signatures. Our current experience suggests that it is best for the search to be constrained to the beginning of each flow, for example, the first 4KB. Fortunately, this is consistent with application identification requirements: if the signature user has the intention of using fingerprints to prioritize or drop traffic, then it is important that such action takes place early enough in the flow. On the other hand, users that only care about traffic characterization may not have this constraint, and our tool may occasionally fail to identify signatures that appear in later parts of application flows.

2.1.5. Post-processing

After complete scanning of a trace (or set of traces), our tool will have recorded a set of fingerprints of various sizes that have appeared across flows and traces. Due to book-keeping constraints the fingerprints stored in the cache are supplemented only by the number of instances, number of distinct flows, and the flow identifiers up to the point where the signature was put on the candidate signature pile (to avoid increasing memory usage). This is not sufficient by itself to select which among all signatures are sufficient to characterize an application. For example, a fingerprint may be a substring of another, and may seem to appear in the same set of flows. The longer string may be more desirable as it carries equal or less risk of triggering false positives. However, we do not have sufficient information at hand as to whether this fingerprint appeared at some later point in each of the recorded flows compared to the shorter fingerprint. Similarly, seemingly independent fingerprints may occur in the same set of flows, and we would like to remove such redundant signatures. Finally, some signatures may co-exist frequently enough to be considered as a regular expression of the form $\{A.*B\}$.

The post-processing phase involves going through the trace once more using a string matching algorithm to match each flow against all candidate signatures. Before going through the trace, we first look at the candidate signatures and try to identify potential larger strings from smaller fingerprints. For example, the first phase may have looked at strings of size 3 up to 10. If the application has a fingerprint of size 30, every 10-byte substring of it must be recorded as a candidate signature. After building this expanded set of signatures, we go through the trace again, and fully record matches for getting a better view of which signatures should be selected. We compute for each signature the number of flows matched, as well as the number of bytes matched (i.e., the size of the flow from the point of match onwards), while building a flow-signature matrix. We also construct classes of signatures that simultaneously match the traffic in the trace for redundancy checks or construction of regular expressions.

As a final step, we start with the signature that has the highest match performance in terms of volume, and mark the flows which are successfully classified by it. We then re-compute the match performance for each other signature on the remaining flows through the flow-signature matrix constructed previously, and continue selecting the highest matching of the remaining signatures until no signatures or no flows are left. In case of signatures that have equal match counts, we chose the longest one with the hope of reducing the risk of false positives.

2.1.6. Signature Validation

Validating the set of signatures we generated involves two separate questions. The first question is whether the signatures generated match not only the application in question but also traffic from other applications. The common term for such matches is *false positives*. A major concern in testing for false positives is the time it takes to complete signature validation. With this goal in mind we have designed and evaluated an efficient algorithm for signature validation. The approach was originally designed for testing worm signature generators, but has been imported with minor engineering changes for application characterization. In our approach, we incorporate time-space trade-off techniques that are well understood in the context of databases. These techniques allow users to quickly scan for the existence of a key in a database.

To be more specific, we expect from our algorithm a response time much lower than one second. If our algorithm does not use any pre-processing of the captured traffic then only the time required to read the captured traffic from the storage device would be much greater than one second. As a consequence, we have to pre-process the captured traffic in order to minimize the data that our algorithm must read from the storage devices (hard disks). To be more specific our algorithm has two phases, an "offline" phase where the captured traffic (trace) is processed and an "index" file is created, and an "online" phase where the algorithm uses the "index" file to validate the signature.

The second question is whether the signatures can characterize application flows, and if employed to block traffic, whether the application can still perform well despite filtering (e.g., through the use of another protocol, or protocol mode, which has not been fingerprinted). The first part of this second question -- whether the signature characterizes application flows, is already answered by the analysis during candidate signature post-processing. The second part of this question requires the user to manually fire up the application with the new signatures installed on a DPI box and determine whether the application still performs well even if the DPI box is instructed to block traffic with the newly-installed signatures.

2.1.7. Preliminary Evaluation

We have evaluated our tool by using it to fingerprint 24 applications. Those 24 applications were listed as unclassified for one commonly used DPI platform. The results are summarized in Figure 1. Out of a total of 30 applications that we tried, we managed to work on 24 (the other 6 didn't work at all or required some kind of account, etc.). For 13 out of 24 we were able to obtain and validate signatures. For 7 we got signatures that were not very accurate (e.g., they degraded the application but didn't fully block). For 4 we failed to obtain signatures for various reasons (obfuscation, encryption, ...).

[illegible]

Figure 2: Screenshot of UNVEIL algorithm in action, the top half shows the 10 first preambles encountered in the sample obtained from the AUTH trial site. The bottom half shows the output from the UNVEIL run. The last line of output shows a signature that matches 627 out of 652 samples, while the other proposed signatures have weaker coverage. It is easy for the operator to combine these signatures further.

There's nothing surprising about the results, but please keep in mind that they are pessimistic. we plan to investigate the 7+4 cases and we might be able to fine tune our signature generator to do better. And,

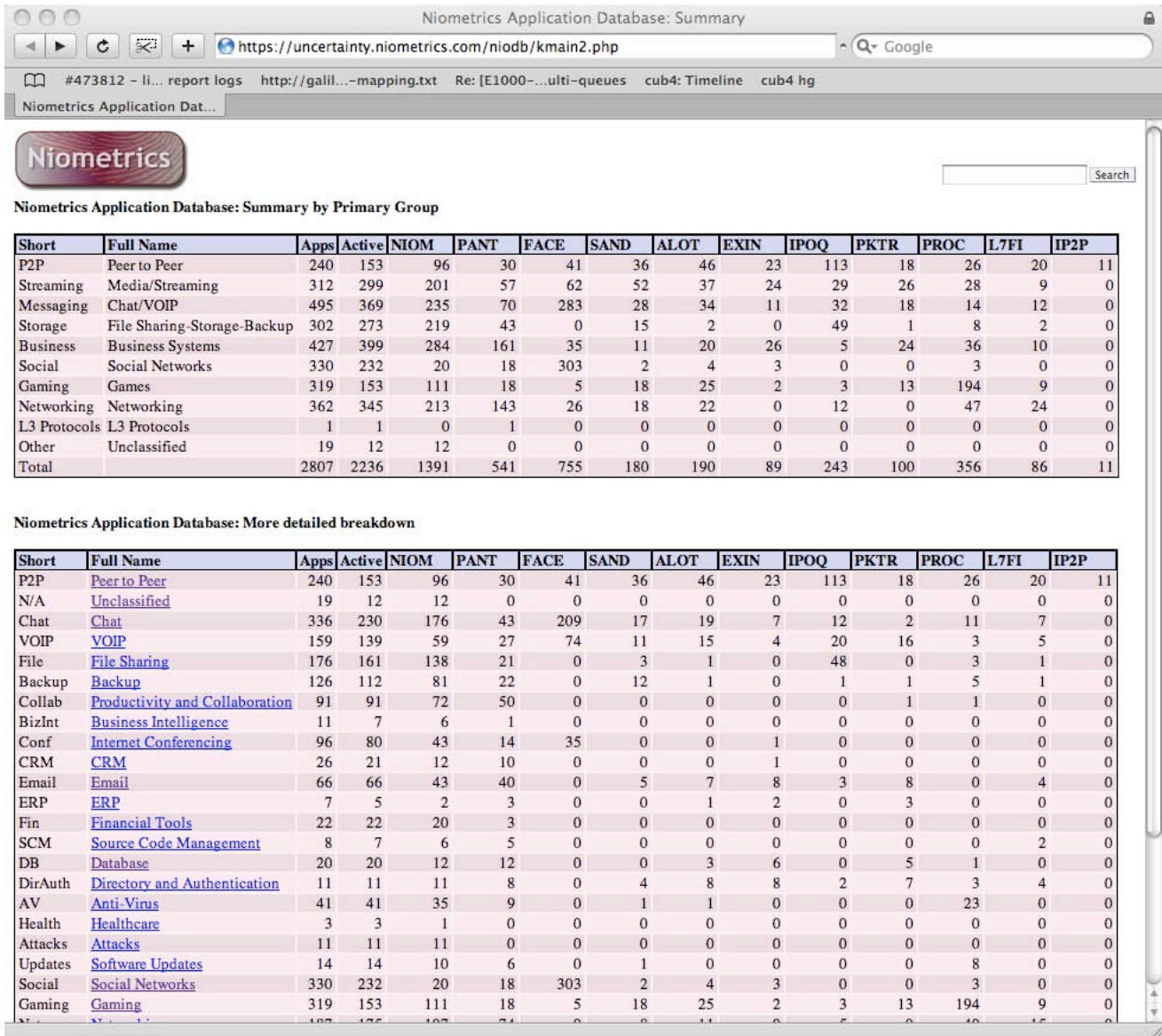


Figure 3: Screenshot of NioDB GUI main screen, showing the application groups and the companies along with the number of applications in each groups that these companies can detect.

of course, for obfuscation and encryption we are trying more advanced approaches, which are outside the scope of this proposal.

2.2 The UNVEIL algorithm

Perhaps the biggest deviation compared to the original technical plan is due to the observation that a fairly large number of protocols cannot be characterized by a reasonably large identifying string at a variable offset from the beginning of the packet, which is the focus of the EAR algorithm. In fact, a large fraction of protocols are binary-encoded with just a few fixed fields, as every byte is supposed to carry some meaningful quantity between the communicating peers. For example, the SOCKS protocol uses the first payload byte in the first packet as the magic number (0x04 for SOCKSv4 and 0x05 for

Dashboard for Application Group Backup

[\[Back to main dashboard\]](#)

Update Add Row Delete Marked

Delete	Active	Traces	Group	Type	Internal Name	Full Name	URL	NIOM	PANT	FACE	SAND	ALOT	EXIN	IPOQ	PKTR	PROC	L7FI	IP2P	Comm
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☐	☒	☐	Backup	I	BackJack	BackJack	http://www.backjack.com/	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
☐	☒	☐	Backup	I	Iron Mountain	Iron Mountain	http://backup.ironmountain.com/	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
☐	☒	☐	Backup	I	iStorage-Iomega	iStorage-Iomega	http://www2.iomega.com/	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
☐	☒	☐	Backup	I	Xdrive-AOL Service	Xdrive-AOL Service	http://www.xdrive.com/	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	
☐	☒	☐	Backup	I	Carbonite	Carbonite	http://carbonite.com/	☒	☒	☐	☒	☐	☐	☐	☐	☐	☐	☐	
☐	☒	☐	Backup	I	SOS Online Backup	SOS Online Backup	http://www.sosonlineback.com/	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	partia
☐	☒	☐	Backup	I	Amazon S3	Amazon S3	http://www.amazon.com/	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	

Figure 4: Screenshot of NioDB GUI screen for a specific application group (backup software). We mark as yellow applications which we have not yet investigated. Green are applications that have been fingerprinted already. Red are applications for which we have collected data but for which we have yet to produce fingerprints.

SOCKSv5), the second byte encodes the requested function to be performed by the other side (for example, 0x01 for opening a connection).

These protocols require a different approach for detection. In our current design, we use “preamble masks” indicating fixed-size strings at the beginning of the payload, with the mask indicating which bytes in those strings are fixed and which ones are variable. For example the preamble mask ‘04013300/FFFF00FF’ matches all packets that start with 0401 and have the 4th byte equal to 0x00 and any value in the 3rd byte. Fortunately, the fact that preambles are matched against a fixed offset in the payload reduces complexity in the matching process, and also makes signature generation somewhat easier.

The goal of the UNVEIL algorithm which we have developed is to take as input a set of traffic samples and produce the minimum set of preambles that covers a large enough fraction of the samples, ideally 100%. The algorithm operates as follows. We consider preambles of a fixed maximum size, which in our current implementation is 16 bytes. We extract, from all flows, the first packet, we take the first 16 bytes with the full mask (FF .. FF), and consider this set of preambles as our initial set of signatures.

The goal becomes to reduce this set to the minimum necessary to fully characterize the application. In each step, we compute the similarity of each preamble to every other preamble in the set.

There can be many similarity measures. The simplest one would be to count the number of identical bits among each pair of preambles, and sum up all the values for each preamble. We use a somewhat more elaborate scheme to introduce some bias in the measurement to favor preambles that have consecutive identical bits. More specifically, we maintain three counters as we compare the preambles: the count of identical bits, the maximum number of contiguous identical bits, and the current sum of contiguous bits across different bytes. The similarity at the end of the comparison is the sum of these three counters.

Once the basic similarity measure has been computed for the set, we find the highest similarity signature in the set and then a second signature where the two signatures can be merged with minimum impact in terms of having to turn off bits in the mask. We could use other measures as well, such as the maximum number of signatures we can eliminate with this approach, but for now we prefer a more conservative strategy and just eliminate one signature at a time, even if this means that the algorithm is going to be slow.

Through several rounds of reductions, up to the number of samples in the initial set, we can derive one or more preamble masks that cover all samples in the initial set. This is the set of candidate signatures, which can often be more than one as preambles cluster around a maximum similarity preamble.

We note that even the first round of computations for similarity is very useful in identifying clusters in the case where the trace has been obtained from the network and may contain several different applications with different preambles. The algorithm is also designed in such a way that we do not require the algorithm to compute a single signature that matches all samples. The end condition is currently set to a maximum of 10,000 rounds of reductions and with some thresholds in each reduction, to avoid overgeneralizing the signatures. A side-effect of being careful in this is that the final proposed signatures may still have obvious generalizations between them, which the operator will then have to merge manually. Although this is far from the ideal of fully automated, unsupervised signature generation, it is still much more efficient than manual eyeballing through large amounts of data, as it reduces the data to a form that can be understood by the operator for the production of signatures within minutes.

2.3 Fingerprinting Web-based applications

Another issue we discovered during the course of this project is that an increasing number of applications operate over HTTP and HTTPS. Their traffic would usually be classified as HTTP, and it would not show up as a new blob in our unclassified dumps. We needed ways to identify this kind of traffic, whenever possible, and to have ways to fingerprint it.

There are two primary features that allow such applications to be identified. First, many of them are served in a centralized fashion, meaning that all the traffic would go to specific servers, whose names could be described in signature language. This would typically involve a signature on the Host: or Referer: field.

The second key feature is the User Agent field of the HTTP request. A large fraction of Web based applications use distinct User Agent fields which are very easy to express as signatures. To automate

the extraction of previously unknown User Agent fields we have implemented a specific signature “action” that checks every occurrence of a User Agent field against an updated list of known User Agents. If a new one shows up, it is logged for further analysis. Google and whois can then help identify exactly which application this User Agent corresponds to, if the User Agent string itself is not clear about it.

2.4 Application Traffic and Signature Database and GUI

During the course of this project we noticed that quite often we are able to identify signatures from live traffic but without being able to identify which application they cover. In many cases it is sufficient to give them a temporary label until the application’s name is discovered, but this also means that offline data collection cannot be completely eliminated from the signature update process. Combining the two is likely to be more effective, as quite often the temporarily labeled applications will eventually coincide with applications fingerprinted in the lab. Due to the limited number of trial sites and live network data that was available during the course of the project, we put significant effort into collecting traffic samples in the lab, and streamlining the infrastructure needed for this task.

We have developed an extensive database of traffic samples for more than 2000 applications. The names of the applications were obtained through competitors’ application lists, online sites providing information on popular networking software (product review sites such as wakoopa.com, and download.com for example) and information obtained from users and IT managers. The same database also provides us with a comparison of our application coverage compared to competing vendors in the market.

2.5 Data Collection Tools

In addition to the database, we have also ported the CUB4 engine to the Windows XP and Vista platforms, to provide more flexibility and accuracy in data collection compared to simply running windump or wireshark and collecting full traces. A CUB4 wrapper implementing null detection and activating the dumper allows us to capture capped traces that contain sufficient data for analysis at a fraction of the storage needs. At the same time, we have also implemented “FlowProbe”, a module that can tag flows with application data obtained from the operating system. This is necessary as in many cases using a small number of IP addresses for data collection results in significant noise, as stale data in the network, background applications, and random network probes can contaminate the data.

The “FlowProbe” module has an additional feature which is likely to be highly useful in more operational settings. It can broadcast special “hint” packets to the network containing the association of flows to applications. An embedded Niometrics/CUB4 system in the network can intercept these hints and use them to determine if its own classification for each flow is consistent with the “ground truth” as provided by the host operating system. We envision that administrators may ask users with high volumes of unclassified traffic to (temporarily) install FlowProbe so that the Niometrics system can tune itself and learn the previously unknown signature and application.

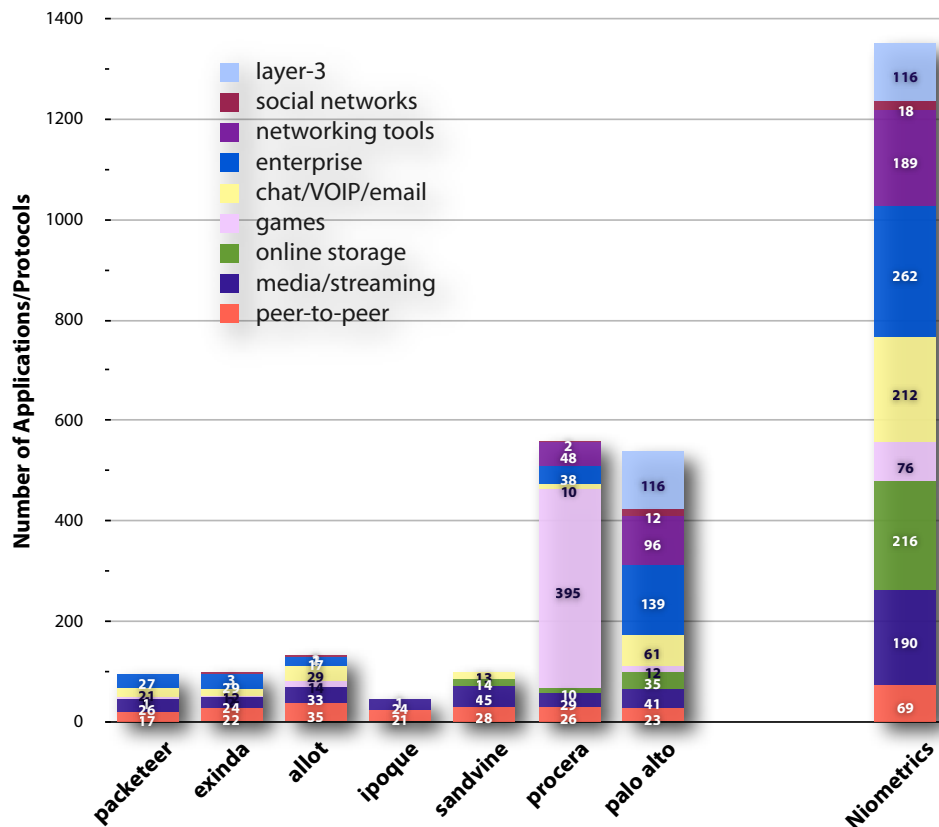


Figure 5: Comparison of application coverage between different vendors, including our own project. The resulting coverage is due to the use of our tools on reference traces and a small number of live networks and trial sites.

4. Insights from trial sites

Up and until November 2008 the project relied almost exclusively on access to I2R's corporate network, and the reference traces collected by our project team. From November 2008 we obtained access to data and trial sites at AUTH (EU), Vivodi Telecom (EU), and an undisclosed university campus (US). The addition of each trial site provided useful insights:

- The data obtained from Vivodi were traces from two datacenters, where the traffic was primarily enterprise applications, LDAP, billing, and backup software. The initial classification rate on this network was relatively low, at around 60%, as several LDAP modes and the backup applications were not included in our database. It took only 1-2 days of analysis to fully cover the applications. Some collaboration was necessary with the network administrators at Vivodi to determine which application was associated with a given set of signatures. Subsequent runs demonstrated classification rates of 99.9%.
- The data obtained from the university campus provided a wealth of new applications, as this is an open network of more than 30,000 staff and students. It took a full week to sift through the data, and we produced new signatures for around 150 applications for which we didn't have any reference data before.
- The AUTH trial site went live on December 18th, 2008. From the early runs we achieved classification rates of more than 98% without any additional signature generation work. Part of the remaining 2% resulted in around 20 new applications being discovered, most of which were related

to Grid Computing, and some which related to botnet activity and SOCKS proxy modes which we had not seen before.

5. Caveats and Next Steps

Compared to the ideal of fully automated, unsupervised signature generation, our approach in its current form has some inherent limitations:

- We have observed that sometimes the fingerprints produced by the algorithms are not particularly good. In many cases there are obvious ways to improve them, for example, by further manual reduction. This is not a difficult task, but it means that some supervision is still necessary. Further work is necessary to determine whether it is possible to fine-tune our framework to reduce the need of supervision to a minimum, and to provide more meaningful information to the operator when supervision is unavoidable.
- In some cases the application has a very weak protocol footprint to begin with, and there are no good signatures to discover by any algorithm. This is not just about obfuscated applications -- many other applications that do have a protocol structure don't have a clear enough invariant part that would allow for accurate identification. The operator will have to look for secondary features, such as packet sizes, port numbers, or preambles further down in the packet. In some extreme cases, such as Skype the footprint is so weak that it requires case-specific stateful handling. In other cases, there are known quantities that are embedded in the payload which are variable. For example, some applications encode the message size, which can be easily correlated with the packet size, and other applications encode the source IP, destination IP or transport-level port numbers at specific fields. While it is certainly possible to generalize feature extraction for such cases, it appears that every "difficult" application may still require some degree of unique handling, which the underlying system needs to support.
- Within the scope of an isolated traffic sample, some parts of the payload may seem invariant, when in reality they may change under certain conditions. For example, assume that an application embeds a timestamp in the payload. If some part of this timestamp indicates the year, then it will not be possible to identify the variable portion until a year later. One could then either declare this part to be variable (and mask it out, in the case of preamble signatures) or one could consider that the signature will be changing every year and that this part should be considered invariant for that period of time. It may be possible to adapt the algorithms to detect similarity between unclassified traffic and existing traffic samples, or the existing signatures in the database. An implementation of this would require an appropriate multi-pattern approximate matching algorithm. Given that this will operate mostly offline, there are no stringent performance requirements for this part. This approach cannot be bulletproof, but may in most cases provide a reasonably good guess. Another strategy, which is something that we have been doing manually, is to look at the profile of the flow endpoints. For the internal hosts, we can look back at the applications that we have already identified as running on the host. With some further correlation with other hosts generating similar unclassified traffic, it may be possible to make a better guess as to whether the unclassified traffic belongs to an application we have already identified as running on the host, or whether we should look further for evidence.
- Automating the identification of application name and type is an open issue. Our experience with manual identification suggests that this is difficult without additional access to the end systems, as provided by FlowProbe. In an enterprise setting, this seems reasonable, but in an ISP setting this approach may be too intrusive. Cross-site collaboration may provide some help, but this too seems like a long shot for ISPs.
- The Flash RTMP protocol is a challenge by itself, as it involve a lot of random data at the beginning of the payload, and no clearly identifiable strings until very deep in the payload. As many

applications are nowadays implemented in Flash, it would be important to explore this further. Our current approach here is still somewhat manual.

- Finally, it seems desirable to automate the fingerprinting of non-content features as well. Skype's TCP connections, for example, have a similar feature set to other obfuscated applications, and it looks like there is an opportunity there to automate the extraction of the feature ranges, similar to how we went about extracting the content features.

References

- [1] Periklis Akritidis, Kostas Anagnostakis, and Evangelos P. Markatos. Efficient content-based fingerprinting of zero-day worms. In Proceedings of the IEEE International Conference on Communications, May 2005.
- [2] [Michael O. Rabin \(1981\) \(PDF\)](#). *Fingerprinting by Random Polynomials*. Center for Research in Computing Technology, Harvard University. Tech Report TR-CSE-03-01. Retrieved on 2007-03-22.

Appendix A: List of reference traces

There are 1860 traces in our reference archive. Other traces are also available but are not well organized at the moment and therefore are not “officially” part of this archive.

```
6422199 Nov 21 17:27 01-mp3search4.0-p2p-install-201108-lavany.pcap
254894 Oct 22 11:10 123flashchat-chat1-221008-lavany.pcap
85637 Oct 22 11:11 123flashchat-chat2-221008-lavany.pcap
1085134 Oct 24 16:26 12voip-voip-241008-lavany.pcap
1305123 Oct 24 16:25 12voip-voip-install-praveen.241008.pcap
4694924 Aug 28 17:14 24sevenoffice-crm-praveen.280808.pcap
4828529 Nov 7 17:13 2big2send-filessharing-install-praveen.071108.pcap
6118397 Nov 7 17:06 2big2send-filessharing-webbased-praveen.071108.pcap
11232311 Oct 25 12:49 3cxvoipclient-voip-install1-praveen.251008.pcap
6838734 Oct 25 12:39 3cxvoipclient-voip-install-praveen.251008.pcap
4193838 Dec 2 11:10 3lux-socialnetworks-web-021208-lavany.pcap
3627714 Dec 2 11:30 43things-socialnetworks-web-021208-lavany.pcap
12117098 Aug 11 23:10 4shared-filessharing-install1-praveen.110808.pcap
4826014 Aug 11 23:07 4shared-filessharing-install-praveen.110808.pcap
17786801 Jul 21 14:40 56-chinese-praveen.210708.pcap
611296 Nov 17 17:11 8hands-chat2-install-111108-lavany.pcap
3178743 Dec 2 13:31 8hands-socialnetworks-install-021208-lavany.pcap
4248160 Dec 2 13:04 9rules-socialnetworks-web-021208-lavany.pcap
1719296 Aug 16 19:20 a3-gaming-lavany.160808.pcap
40498875 Dec 12 15:32 accessremotepc-networking-remotedesktop-install1-praveen.121208.pcap
43469396 Dec 12 15:31 accessremotepc-networking-remotedesktop-install-praveen.121208.pcap
246720 Oct 22 16:50 achat-chat1-221008-lavany.pcap
91213 Oct 22 16:50 achat-chat2-221008-lavany.pcap
84980 Nov 17 17:11 achat-chat-install-121108-lavany.pcap
5549476 Oct 15 15:29 activeworlds-chat1-151008-lavany.pcap
14770527 Oct 15 15:15 activeworlds-chat2-151008-lavany.pcap
4566498 Nov 21 17:27 addax-p2p-install-201108-lavany.pcap
46654 Oct 15 15:38 adiiirc-chat1-151008-lavany.pcap
188672 Oct 15 16:06 adiiirc-chat2-151008-lavany.pcap
16097 Oct 15 15:39 adiiirc-chat3-151008-lavany.pcap
152323 Oct 15 16:07 adiiirc-chat4-151008-lavany.pcap
49911390 Sep 19 15:30 adobeconnectnow-collaboration-beta-praveen.190908.pcap
13156251 Aug 11 10:35 adobeconnect-pro-collaboration1-praveen.110808.pcap
5132477 Aug 11 10:18 adobeconnect-pro-collaboration-praveen.110808.pcap
53657822 Aug 12 12:07 adobereader-professional-update-praveen120808.pcap
555474 Aug 10 17:14 adobe-reader-update-praveen.100808.pcap
10184426 Nov 6 13:30 adobeshare-filessharing-webbased-praveen.061108.pcap
13446152 Oct 8 11:10 adrive-onlinebackup-praveen.081008.pcap
1639311 Dec 2 13:43 advisorgarage-socialnetworks1-web-021208-lavany.pcap
1775135 Dec 2 13:57 advisorgarage-socialnetworks2-web-021208-lavany.pcap
565291 Dec 2 14:02 advogatosocialnetworks-web-021208-lavany.pcap
582359 Oct 17 20:10 afterbeep-streaming-install1-praveen.171008.pcap
935227 Oct 17 20:15 afterbeep-streaming-install2-praveen.171008.pcap
1303662 Oct 17 20:20 afterbeep-streaming-install3-praveen.171008.pcap
1431980 Oct 17 20:01 afterbeep-streaming-install-praveen.171008.pcap
1573307 Oct 17 19:55 afterbeep-streaming-praveen.171008.pcap
40906 Oct 24 16:29 agephone-voip1-241008-lavany.pcap
191028 Oct 24 16:29 agephone-voip2-241008-lavany.pcap
352890 Oct 24 16:41 agephone-voip-install1-praveen.241008.pcap
358786 Oct 24 16:38 agephone-voip-install-praveen.241008.pcap
2448465 Sep 18 11:24 aimmall-businesssystems-email-lavany.180908.pcap
58743 Nov 10 15:19 akenipromessenger-chat-install-071108-lavany.pcap
108971 Nov 10 15:19 akeniproserver-chat-061108-lavany.pcap
1095728 Nov 10 15:19 akeniwebchat-chat2-install-071108-lavany.pcap
36063 Nov 10 15:19 akeniwebchat-chat3-install-071108-lavany.pcap
26548 Nov 10 15:19 akeniwebchat-chat-install-071108-lavany.pcap
24553948 Aug 27 16:29 albatross18-gaming-lavany.270808.pcap
11694956 Sep 18 17:37 allmydata-onlinebackup-install-praveen.180908.pcap
846908 Oct 15 16:47 altnet-chat1-151008-lavany.pcap
523208 Oct 15 16:43 altnet-chat2-151008-lavany.pcap
156711 Oct 15 16:49 altnet-chat3-151008-lavany.pcap
1251483 Dec 2 14:23 alumnwire-socialnetworks-web-021208-lavany.pcap
1965123 Dec 2 14:44 americasbookshelf-socialnetworks-web-021208-lavany.pcap
4059810 Dec 2 15:06 amitize-socialnetworks-web-021208-lavany.pcap
6816524 Dec 5 13:05 ammy-networking-remotedesktop-install1-praveen.051208.pcap
6805170 Dec 5 13:04 ammy-networking-remotedesktop-install-praveen.051208.pcap
3211051 Sep 29 14:50 amsn-chat-install-praveen.290908.pcap
1954714 Sep 11 11:40 anarchyonline-gaming1-lavany.110908.pcap
8833782 Sep 18 16:42 angelbackup-onlinebackup-install-praveen.180908.pcap
2215863 Aug 26 17:33 angelsonline-gaming-lavany.260808.pcap
2292076 Dec 2 15:38 anobii-socialnetworks-web-021208-lavany.pcap
85906 Nov 27 17:33 anubis-p2p-install-271108-lavany.pcap
9089563 Oct 30 16:15 anyplacecontrol-networking-remotedesktop-install1-praveen.301008.pcap
154697 Oct 30 15:17 anyplacecontrol-networking-remotedesktop-install-praveen.301008.pcap
7772347 Sep 17 16:11 aolmessageboard-businesssystems1-productivity-lavany170908.pcap
1393683 Sep 17 16:32 aolmessageboard-businesssystems2-productivity-lavany170908.pcap
146211 Sep 17 16:33 aolmessageboard-businesssystems3-productivity-lavany170908.pcap
31747961 Aug 10 15:16 apple-softwareupdate-praveen.100808.pcap
2315320 Aug 15 09:54 apple-softwareupdate-praveen.150808.pcap
10765186 Nov 10 11:37 arkiva-filessharing-webbased-activex1-praveen.101108.pcap
11129328 Nov 10 11:31 arkiva-filessharing-webbased-activex-praveen.101108.pcap
4987484 Dec 2 15:48 artbreak-socialnetworks-web-021208-lavany.pcap
168636 Aug 11 11:41 asheronsall2-game-lavany080808.dmp
49231308 Aug 11 11:41 asheronsall2-game-lavany080808.dmp
2580189 Dec 2 16:05 asustalking-socialnetworks-web-021208-lavany.pcap
18264744 Sep 3 10:45 atlanticrecords-radio-media-praveen.030908.pcap
7767095 Sep 3 10:50 atlanticrecords-TV-media-praveen.030908.pcap
29340983 Nov 12 14:48 atom-streaming-webbased-praveen.121108.pcap
13632484 Nov 27 18:51 audionome-p2p-install-271108-lavany.pcap
3182147 Dec 2 17:10 avatarsocialnetworks-web-021208-lavany.pcap
3582514 Dec 2 16:15 axmate-socialnetworks-web-021208-lavany.pcap
843567826 Oct 6 12:25 azureus-3.1.1-torrent-kirk.061008.pcap
12392905590 Sep 29 11:45 azureus-3.1.1-torrent-kirk.290908.pcap
6558832 Dec 2 16:34 b4class-socialnetworks-web-021208-lavany.pcap
11810935 Aug 5 15:09 backblaze-onlinebackup1-praveen.pcap
14676482 Aug 5 15:17 backblaze-onlinebackup2-praveen.pcap
14837106 Aug 5 15:01 backblaze-onlinebackup-praveen.050808.pcap
1781364 Sep 16 10:35 backupkit-prodcollab-praveen.160908.pcap
2633722 Nov 6 13:55 backup2email-onlinebackup-install1-praveen.061108.pcap
383815 Nov 6 13:52 backup2email-onlinebackup-install-praveen.061108.pcap
13626248 Nov 7 13:11 backupandshare-onlinebackup-install-praveen.071108.pcap
67291000 Aug 6 13:27 backuphelp-onlinebackup1-praveen.060808.pcap
41374694 Aug 6 13:20 backuphelp-onlinebackup-praveen.060808.pcap
6566557 Aug 5 11:13 backup-symantec-onlinebackup1-praveen.050808.pcap
28976172 Aug 5 11:27 backup-symantec-onlinebackup2-praveen.050808.pcap
70705869 Aug 5 11:05 backup-symantec-onlinebackup-praveen.050808.pcap
514521 Nov 28 09:51 badblue-p2p-install-281108-lavany.pcap
5150802 Dec 2 17:27 badoo-socialnetworks-web-021208-lavany.pcap
5230900 Sep 12 10:36 badongo-filessharing-install-praveen.120908.pcap
34368657 Sep 12 08:27 badongo-filessharing-praveen.120908.pcap
2463342 Dec 2 17:37 bahu-socialnetworks-web-021208-lavany.pcap
820833 Dec 2 17:47 bandchemistry-socialnetworks2-web-021208-lavany.pcap
4492493 Sep 17 12:05 barronsfinanceblogs-businesssystems-productivity-lavany.170908.pcap
920476 Sep 1 16:12 bbca-p2p-collab-praveen.010908.pcap
5064012 Sep 2 09:11 bbc-iplayer-radio-media-praveen.020908.pcap
16474406 Nov 10 17:24 bccitv-streaming-webbased-praveen.101108.pcap
60621273 Nov 20 14:00 beanyourscreen-internetconferencing-install1-praveen.201108.pcap
5325541 Nov 20 13:59 beanyourscreen-internetconferencing-install-praveen.201108.pcap
14173238 Nov 21 17:27 bearshare-p2p-install-201108-lavany.pcap
7913262 Aug 3 13:09 bearshare-p2p-praveen.030808.pcap
8417937 Aug 3 13:01 bearshare-praveen.030808.pcap
1177798 Sep 1 21:11 bebo-socialnetworking-praveen.010908.pcap
550020 Oct 8 16:13 beinsync-onlinebackup-install1-praveen.081008.pcap
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31798265 Oct 8 16:05 beinsync-onlinebackup-install-praveen.081008.pcap
57824 Nov 17 17:11 bersirc-chat1-install-111008-lavany.pcap
19270 Nov 17 17:11 bersirc-chat2-install-111008-lavany.pcap
13331432 Sep 17 11:45 bigfilebox-filessharing-praveen.170908.pcap
1569671 Oct 22 10:44 bigfilehost-filessharing-webbased-praveen.221008.pcap
840969 Sep 17 09:20 bigfilez-filessharing1-praveen.170908.pcap
4351886 Sep 17 09:18 bigfilez-filessharing-praveen.170908.pcap
4901997 Sep 17 09:44 bigupload-filessharing-praveen.170908.pcap
13174494 Nov 10 15:48 bingodisk-onlinebackup-webbased-webdav-praveen.101108.pcap
89648903 Nov 27 18:53 bitche-p2p-install1-271008-lavany.pcap
6515035 Sep 12 10:42 bitroad.net-filessharing-praveen.120908.pcap
107034 Jul 31 20:57 bitwise-chat1-praveen.310708.pcap
963078 Jul 31 20:43 bitwise-chat-praveen.310708.pcap
147505073 Nov 28 10:57 bitzip-p2p-install-281108-lavany.pcap
47534562 Oct 2 10:12 blackboard-businesssystems-internetconference-lavany.021008
11436090 Oct 15 17:28 blinkx-streaming-install-praveen.151008.pcap
13320650 Jul 18 14:34 bliptv-praveen.180708.pcap
2802490 Dec 2 18:05 blogflux-socialnetworks2-web-021208-lavany.pcap
2826094 Sep 17 15:53 blogger-businesssystems-productivity-lavany170908
4037748 Dec 3 10:09 bloglines-socialnetworks-web-031208-lavany.pcap
33668269 Aug 12 16:16 Boinc2-P2P-lavany120808
19910417 Aug 12 13:04 Boinc-P2P-lavany120808
51888 Aug 11 11:41 Bomberclone1-game-lavany080808
13297 Aug 11 11:41 Bomberclone2-game-lavany080808
3083724 Oct 30 18:35 bomgar-networking-remotearchive-install1-praveen.301008.pcap
922501 Oct 30 09:41 bomgar-networking-remotearchive-install-praveen.301008.pcap
2681715 Dec 3 18:33 bonnect-socialnetworks-web-031208-lavany.pcap
2821535 Dec 3 10:57 bookcrossing-socialnetworks-web-031208-lavany.pcap
2310707 Dec 3 11:35 bookhopper-socialnetworks-web-031208-lavany.pcap
1052467 Dec 3 13:40 booksalesout-socialnetworks-web-031208-lavany.pcap
5062349 Dec 3 14:07 booksconnect-socialnetworks-web-031208-lavany.pcap
3083064 Sep 18 09:49 boom3-filessharing-praveen.180908.pcap
658294 Oct 28 14:18 bopup-chat-install1-praveen.281008.pcap
1133376 Oct 28 14:29 bopup-chat-install2-praveen.281008.pcap
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28362061 Jul 21 14:41 viddler-video-praveen.210708.pcap
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8195643 Nov 21 16:32 vidlivic-internetconferencing-install1-praveen.211108.pcap
14504790 Nov 21 16:32 vidlivic-internetconferencing-install-praveen.211108.pcap
8793492 Dec 3 10:04 vidsoft-internetconferencing-install1-praveen.031208.pcap
8402506 Dec 3 10:03 vidsoft-internetconferencing-install-praveen.031208.pcap
24536160 Oct 29 14:10 vipbackup-onlinebackup-install-praveen.291008.pcap
16827572 Aug 19 08:58 virgin-radio-live-praveen.190808.pcap
94792 Oct 30 13:21 virtumessenger-chat-install-praveen.301008.pcap
32018813 Dec 9 10:53 vmetv-streaming-webbased-praveen.091208.pcap
3685192 Oct 25 11:30 voipbuster-voip-install1-praveen.251008.pcap
2983974 Oct 25 11:30 voipbuster-voip-install-praveen.251008.pcap
14522094 Oct 24 10:12 voippcphone-voip-install-praveen.241008.pcap
1646644 Oct 24 11:27 voipstunt-voip-install1-praveen.241008.pcap
2872319 Oct 24 11:21 voipstunt-voip-install-praveen.241008.pcap
180053 Oct 24 11:37 voipwise-voip1-241008-lavany.pcap
651302 Oct 24 11:42 voipwise-voip2-241008-lavany.pcap
4809498 Oct 24 11:51 voipwise-voip-install-praveen.241008.pcap
479282 Aug 11 11:41 Voodoochat1-lavany080808
13356716 Aug 8 10:39 voodoo-chat1-praveen.080808.pcap
454062 Aug 11 11:41 Voodoochat2-lavany080808
2576005 Aug 9 10:20 voodoo-chat-praveen.080808.pcap
63388096 Dec 2 10:23 voontube-p2p-install-021208-lavany.pcap
40708581 Oct 21 10:39 voontube-p2p-install1-praveen.211008.pcap
28245902 Oct 21 10:26 voontube-p2p-install-praveen.211008.pcap
4351509 Nov 13 10:16 voxox-chat-install1-praveen.131108.pcap
6081551 Nov 13 08:42 voxox-chat-install2-praveen.131108.pcap
11908081 Nov 13 10:42 voxox-chat-install3-praveen.131108.pcap
4160021 Nov 13 10:15 voxox-chat-install-praveen.131108.pcap
1382289 Sep 30 11:20 voxwire-businesssystems2-internetconference-lavany.300908
2704872 Sep 30 11:20 voxwire-businesssystems-internetconference-lavany.300908
5562551 Nov 21 17:28 vphonet-voip1-install-181108-lavany.pcap
2409018 Nov 21 17:28 vphonet-voip2-install-181108-lavany.pcap
2277553 Aug 11 19:17 vsee-videochat-praveen.110808.pcap
1107744 Aug 7 14:07 vtiger-crm-install1-praveen.070808.pcap
1556197 Aug 7 13:46 vtiger-crm-install-praveen.070808.pcap
44565652 Aug 2 14:01 vuze-azureus1-praveen.020808.pcap
71699848 Aug 2 14:28 vuze-azureus2-praveen.020808.pcap
40905459 Aug 2 14:50 vuze-azureus3-praveen.020808.pcap
172827442 Aug 2 13:35 vuze-azureus-praveen.020808.pcap
29190835 Aug 16 16:54 vyew-collaboration-webbased-praveen.160808.pcap
1196131 Nov 21 17:28 vyke-voip-install-181108-lavany.pcap
2084856 Oct 29 17:40 vypresschat-chat-install1-praveen.291008.pcap
4965918 Oct 29 17:36 vypresschat-chat-install-praveen.291008.pcap
1215006 Oct 29 17:35 vypressmessenger-chat-install-praveen.291008.pcap
978069 Oct 23 09:35 vzochat-chat1-231008-lavany.pcap
1026605 Oct 23 09:35 vzochat-chat2-231008-lavany.pcap
385878 Aug 11 10:26 wallcooler1-networking-lavany110808
1325937 Aug 11 10:25 wallcooler2-networking-lavany110808
2179102 Aug 11 10:45 wallcooler3-networking-lavany110808
307268 Aug 11 10:46 wallcooler4-networking-lavany110808
1612226 Aug 11 13:24 wallcooler5-networking-lavany110808
703554444 Jul 17 15:16 wambo-swapper-1.0.6-kirk-170708.pcap
12075921 Jul 17 16:34 wambo-swapper-1.0.6-praveen-170708-1.pcap
14922863 Jul 17 16:34 wambo-swapper-1.0.6-praveen-170708-2.pcap
209247015 Jul 17 16:34 wambo-swapper-1.0.6-praveen-170708-3.pcap
3124423 Jul 31 13:00 warez-3.1.1-kirk.310708-1.pcap
402380684 Jul 31 14:03 warez-3.1.1-kirk.310708-2.pcap
1420126 Sep 15 15:12 warpfire-gaming-lavany.150908
11934132 Nov 12 10:27 watchindiatv-streaming-webbased1-praveen.121108.pcap
23620888 Nov 12 10:21 watchindiatv-streaming-webbased-praveen.121108.pcap
3157237 Nov 13 09:34 watercooler-socialnetworking-apps-bebo-webbased-praveen.131108.pcap
5203202 Jul 18 14:35 wayn-praveen.180708.pcap
9053783 Nov 7 12:43 webafile-onlinebackup-install-praveen.071108.pcap
263566 Oct 22 10:55 webasyst-prodcolab-webbased1-praveen.221008.pcap
4077550 Oct 22 11:01 webasyst-prodcolab-webbased-praveen.221008.pcap
6035202 Sep 17 14:05 webcargo-filessharing-praveen.170908.pcap
27910806 Aug 11 17:42 webex-collaboration1-install-praveen.110808.pcap
29510909 Aug 11 17:55 webex-collaboration2-install-praveen.110808.pcap
303347 Aug 11 17:32 webex-collaboration-install-praveen.110808.pcap
2546702 Aug 8 16:41 webhard-onlinebackup1-korean-praveen.080808.pcap
9270657 Aug 8 17:23 webhard-onlinebackup2-korean-praveen.080808.pcap
24379132 Aug 8 16:36 webhard-onlinebackup-korean-praveen.080808.pcap
80706985 Aug 8 16:57 webhard-onlinebackup-web-korean-praveen.080808.pcap
0574130 Sep 4 11:25 webhuddle-gpl-collaboration1-praveen.040908.pcap
929223 Oct 24 17:15 weblin-chat-install1-praveen.241008.pcap
4572033 Oct 24 17:11 weblin-chat-install-praveen.241008.pcap
1600289 Aug 22 11:44 weboffice-prodcolab-praveen.220808.pcap
1327720 Oct 24 14:32 webphonedialer-voip1-241008-lavany.pcap
2042479 Oct 24 14:34 webphonedialer-voip2-241008-lavany.pcap
732941 Oct 24 14:34 webphonedialer-voip3-241008-lavany.pcap
11466050 Nov 6 14:58 webroot-onlinebackup-install-praveen.061008.pcap
1146550 Aug 8 10:28 webshots1-socialnetw-lavany070808
10193212 Aug 8 10:28 webshots2-socialnetw-lavany070808
1425081 Aug 8 10:28 webshots3-socialnetw-lavany070808
051089 Sep 4 17:15 webtrain-collaboration-praveen.040908.pcap
2970077 Dec 12 17:03 weezo-networking-remotedesktop-install1-praveen.121208.pcap
3225438 Dec 12 17:02 weezo-networking-remotedesktop-install-praveen.121208.pcap
4105552 Sep 3 16:43 wetpaint-prodcolab-praveen.030908.pcap
13099175 Sep 12 15:34 wiiupload.net-filessharing-praveen.120908.pcap
1001551 Sep 3 13:12 wikidot-prodcolab-praveen.030908.pcap
3080378 Nov 14 09:30 wikisend-filessharing-webbased-praveen.141108.pcap
5441507 Sep 17 15:13 wikispaces-businesssystems-productivity-lavany170908
3375678 Nov 3 16:50 wincryptochat-chat1-install-311008-lavany.pcap
3393306 Nov 3 16:50 wincryptochat-chat2-install-311008-lavany.pcap

7946856 Oct 30 12:38 windowscommunicator-chat-install1-praveen.301008.pcap
1435317 Oct 30 12:07 windowscommunicator-chat-install-praveen.301008.pcap
2994085 Aug 13 16:39 windowssliveskydrive-lavany130808
21726087 Aug 13 14:35 windowsskydrive-spaces-filesharing-praveen130808.pcap
251804501 Aug 8 11:08 windowsupate-vista-praveen.080808.pcap
624791 Oct 30 11:35 winmessenger-chat-install-praveen.301008.pcap
81127 Oct 16 15:09 wipeer-chat1-161008-lavany.pcap
55831 Oct 16 18:28 wipeer-chat2-161008-lavany.pcap
12425696 Nov 6 11:16 wixi-filesharing-webbased-praveen.061108.pcap
10832278 Nov 28 15:28 wiziq-internetconferencing-webbased1-praveen.281108.pcap
9362633 Nov 28 15:28 wiziq-internetconferencing-webbased-praveen.281108.pcap
47844021 Nov 6 16:40 wizzdrive-onlinebackup-install-praveen.061108.pcap
79538 Nov 3 16:50 wmsmessenger-chat2-301008-lavany.pcap
163303296 Aug 25 17:59 wolfeinstein.v2.55-gaming-lavany-250808
3169693 Sep 17 13:59 woofiles-filesharing-praveen.170908.pcap
7275788 Nov 11 13:17 wowtv-streaming-webbased-install-praveen.111108.pcap
40838518 Nov 11 13:03 wowtv-streaming-webbased-praveen.111108.pcap
5257375 Aug 29 14:48 wrke-prodcollab-praveen.290808.pcap
41638708 Aug 14 09:08 wuala-onlinestorage1-praveen.140808.pcap
27989319 Aug 14 09:38 wuala-onlinestorage2-praveen.140808.pcap
244511419 Aug 14 15:55 wuala-onlinestorage3-praveen.140808.pcap
34134057 Aug 14 08:41 wuala-onlinestorage-praveen.140808.pcap
22852295 Nov 12 14:49 wuapi-streaming-webbased-praveen.121108.pcap
973128 Oct 15 15:10 wivt-streaming-webbased-praveen.151008.pcap
11146779 Nov 27 11:04 wwfilesharepro-p2p-install1-271108-lavany.pcap
11075519 Nov 27 11:05 wwfilesharepro-p2p-install2-271108-lavany.pcap
1533672 Sep 9 16:51 wyvern-gaming-lavany.090908
6009703 Aug 15 10:51 xblaster-gaming-lavany-150808
135371 Sep 29 14:59 xchat-chat-install-praveen.290908.pcap
19184 Aug 11 11:41 xmcpr-lavany080808
12422914 Aug 6 09:42 xdrive-desktoplite-onlinebackup1-praveen.060808.pcap
10665188 Aug 6 09:49 xdrive-desktoplite-onlinebackup2-praveen.060808.pcap
20114504 Aug 6 09:28 xdrive-desktoplite-onlinebackup-praveen.060808.pcap
39401707 Aug 6 10:50 xdrive-fullclient-onlinebackup1-praveen.060808.pcap
40434432 Aug 6 10:33 xdrive-fullclient-onlinebackup-praveen.060808.pcap
370957 Jul 28 22:07 xfire-filetransfer-praveen.280708.pcap
520802 Jul 28 22:10 xfire-praveen.280708.pcap
56022 Oct 16 14:17 xim.v1.13-chat1-161008-lavany.pcap
39859 Oct 16 18:31 xim.v1.13-chat2-161008-lavany.pcap
30990 Oct 16 14:19 xim.v1.13-chat3-161008-lavany.pcap
28718 Oct 16 18:31 xim.v1.13-chat4-161008-lavany.pcap
142844 Aug 11 15:33 xobni-emailorganizer-outlookplugin1-praveen.110808.pcap
260927 Aug 11 15:38 xobni-emailorganizer-outlookplugin2-praveen.110808.pcap
32681481 Aug 11 15:19 xobni-emailorganizer-outlookplugin-praveen.110808.pcap
43932 Nov 17 17:11 xorchat-chat1-install-171108-lavany.pcap
3424 Nov 17 17:11 xorchat-chat2-install-171108-lavany.pcap
50608 Nov 17 17:11 xorchatwithencryption-chat1-install-171108-lavany.pcap
2790 Nov 17 17:11 xorchatwithencryption-chat2-install-171108-lavany.pcap
9177784 Sep 18 17:27 xtreak-filesharing-install1-praveen.180908.pcap
208840 Sep 18 17:19 xtreak-filesharing-install-praveen.180908.pcap
155219376 Aug 20 09:42 xxwyvern-gaming-lavany-200808
182218968 Aug 15 11:13 xxzeronline-gaming-lavany-150808
1773017 Sep 18 13:40 yahooemail-businesssystems-email-lavany.180908
4090255 Sep 2 16:55 yahoofinance-prodcollab-praveen.020908.pcap
385125 Aug 29 16:02 yahooogames-gaming-lavany-290808
1521 Oct 10 15:19 yahooemessenger-101008.txt
21449615 Oct 2 17:55 yahooemessenger.download.chat.filesharing-chat-021008-lavany.pcap
17408788 Oct 2 18:33 yahooemessenger.filesharing-chat-021008-lavany.pcap
106312408 Oct 10 15:17 yahooemessenger.filetransfer10-101008-lavany.pcap
331535602 Oct 9 16:32 yahooemessenger.filetransfer1-091008-lavany.pcap
606970808 Oct 10 12:52 yahooemessenger.filetransfer1-101008-lavany.pcap
121334310 Oct 13 15:55 yahooemessenger.filetransfer1-131008-lavany.pcap
31189175 Oct 14 16:37 yahooemessenger.filetransfer1-141008-lavany.pcap
156446790 Sep 9 15:22 yahooemessenger.filetransfer2-091008-lavany.pcap
601542374 Oct 10 12:53 yahooemessenger.filetransfer2-101008-lavany.pcap
21317320 Oct 13 15:55 yahooemessenger.filetransfer2-131008-lavany.pcap
32051829 Oct 14 16:37 yahooemessenger.filetransfer2-141008-lavany.pcap
587006286 Oct 9 17:20 yahooemessenger.filetransfer3-091008-lavany.pcap
10734578 Oct 10 13:47 yahooemessenger.filetransfer3-101008-lavany.pcap
248964630 Oct 13 16:25 yahooemessenger.filetransfer3-131008-lavany.pcap
647419146 Oct 9 16:32 yahooemessenger.filetransfer4-091008-lavany.pcap
0650032 Oct 13 16:27 yahooemessenger.filetransfer4-101008-lavany.pcap
3372759 Oct 13 16:25 yahooemessenger.filetransfer4-131008-lavany.pcap
589937192 Oct 9 17:20 yahooemessenger.filetransfer5-091008-lavany.pcap
115914652 Oct 10 14:23 yahooemessenger.filetransfer5-101008-lavany.pcap
59540981 Oct 10 14:23 yahooemessenger.filetransfer6-101008-lavany.pcap
110412937 Oct 10 14:52 yahooemessenger.filetransfer7-101008-lavany.pcap
107109420 Oct 10 14:53 yahooemessenger.filetransfer8-101008-lavany.pcap
109289672 Oct 10 15:14 yahooemessenger.filetransfer9-101008-lavany.pcap
1369515 Oct 10 11:13 yahooemessenger.voicecall1-101008-lavany.pcap
1382927 Oct 10 11:13 yahooemessenger.voicecall2-101008-lavany.pcap
9749068 Oct 10 10:57 yahooemessenger.voicecall3-101008-lavany.pcap
9567518 Oct 10 10:57 yahooemessenger.voicecall4-101008-lavany.pcap
1560619 Oct 10 11:05 yahooemessenger.voicecall5-webcamserverconnectionerror-101008-lavany.pcap
1497399 Oct 10 11:05 yahooemessenger.voicecall6-webcamserverconnectionerror-101008-lavany.pcap
27327767 Nov 26 17:34 yakke-internetconferencing-install1-praveen.261108.pcap
27327767 Nov 26 17:34 yakke-internetconferencing-install-praveen.261108.pcap
305439 Sep 29 15:54 yandex-chat-install-russian-praveen.290908.pcap
9062004 Sep 2 10:00 yandex-email-russian1-praveen.020908.pcap
8835648 Sep 2 10:00 yandex-email-russian-praveen.020908.pcap
1582267 Aug 7 17:38 yoics-networking-praveen.070808.pcap
18935079 Jul 18 14:35 yourfilehost1-praveen.180708.pcap
18844222 Jul 18 14:35 yourfilehost-praveen.180708.pcap
2247944 Nov 7 11:43 yourfilelink-filesharing-webbased-praveen.071108.pcap
10220329 Sep 12 12:10 yourfiles.biz-filesharing-install-praveen.120908.pcap
43615098 Jul 17 18:00 yousendit-praveen-170708.pcap
27410366 Aug 16 18:46 yugma-collaboration-install-praveen.160808.pcap
100137809 Sep 7 17:31 yum-softwareupdate-kirk.070908.pcap
431778 Sep 17 16:28 yuntaa-onlinebackup-install-beta-praveen.170908.pcap
7745519 Sep 17 16:33 yuntaa-onlinebackup-webbased-beta-praveen.170908.pcap
3435407 Oct 3 17:12 yuuguu-internetconferencing-praveen.031008.pcap
19314581 Aug 29 11:10 zenbe-email-praveen.290808.pcap
24463989 Aug 29 09:55 zimbra-email-yahoo-install-praveen.290808.pcap
182302 Nov 17 17:11 zimim-chat-install-171108-lavany.pcap
102596 Nov 3 16:50 zimpro-chat1-301008-lavany.pcap
90192 Nov 3 16:50 zimpro-chat2-301008-lavany.pcap
1766079 Nov 6 11:34 zippyshare-filesharing-webbased-praveen.061108.pcap
182218968 Aug 15 11:13 z091-gaming-lavany-150808
1184086 Sep 2 21:01 zohocreator-prodcollab1-praveen.020908.pcap
1776124 Sep 2 20:54 zohocreator-prodcollab-praveen.020908.pcap
2396821 Jul 16 16:51 zoho-crm-praveen.160708.pcap
936769 Sep 1 12:00 zohodb-dbi-praveen.010908.pcap
122805 Sep 1 11:54 zohodb-db-praveen.010908.pcap
31475559 Jul 23 10:01 zoho-im_and_file_transfer-praveen.280708.pcap
5723458 Sep 1 13:35 zohomail-email-praveen.010908.pcap
400585 Jul 23 10:01 zoho-meeting1-praveen.280708.pcap
4122967 Jul 23 10:01 zoho-notebook-praveen.280708.pcap
1201003 Sep 1 13:01 zohoprojects-prodcollab-praveen.010908.pcap
10403221 Sep 1 12:11 zohoshare-filesharing-praveen.010908.pcap
1027354 Jul 23 10:01 zoho-sheet-praveen.280708.pcap
3327069 Sep 1 13:11 zohostart-prodcollab-praveen.100908.pcap
3744268 Sep 1 12:51 zohoviewer-filesharing-praveen.010908.pcap
1631272 Aug 22 17:21 zhowiki-prodcollab-praveen.220808.pcap
2337054 Jul 16 13:32 zoho-writer-praveen.160708.pcap
125227 Oct 24 15:00 zoiper-voip-install1-praveen.241008.pcap
847314 Oct 24 15:02 zoiper-voip-install3-praveen.241008.pcap
4177901 Oct 24 14:50 zoiper-voip-install-praveen.241008.pcap
1397875 Oct 24 12:01 zoippe-voip1-241008-lavany.pcap
1417061 Oct 24 12:02 zoippe-voip2-241008-lavany.pcap
3854779 Oct 8 12:10 zoogmo-onlinebackup-install-praveen.081008.pcap
801191 Oct 23 13:07 zoomcall.v.5.4.4-chat1-231008-lavany.pcap
867405 Oct 23 13:17 zoomcall.v.5.4.4-chat2-231008-lavany.pcap
107768962 Jul 24 23:24 zultrax-4.25free-kirk.250708.pcap
931291228 Jul 25 20:22 zultrax-4.25free-kirk.260708.pcap
1881284 Sep 19 12:10 zwiki-businesssystems-productivity-lavany.190908

Appendix B: List of applications fingerprinted

BitTorrent (Encrypted)	Sim-IM	Xtreak	Powerfolder	Scions of Fate	SLIRP ICMP emulation	AppServer - NextVIEW
100bao	POPO	Send6	Netmass	Secondlife	Apple-Airport	AKAMAI-RSP (CDN)
Ants-p2p	ChateX	Sendthisfile	Putplace	Station Launcher-Sony	AFP (AppleFileServer)	Lexmark Printer
Aimini	Pst-opnesource	Bigfilebox	DataDepositBox	Subspace	Microsoft Routing Server	SUN Storage Tek
AppleJuice	Weblin	BooMP3	VipBackup	Tanotch	AppleTV	SUN-NAS
Ares	Jbuddy IM	BoxSTI	SpareBackup	Tibia	TOR (anonymity)	RegetDeluxe
AudioGalaxy	Digsby	DivShare	WizzDrive	Tribes	Socks	Marketscore
BitTorrent (plain)	Instan-t	FilePanda	Keepit	Trickster	SoftEther	FreeDownloadManager
DirectConnect	Tivi	FreeFileHosting	BackupandShare	Twelve Sky	VNC SSL VmWare	GetRight
eMule (obfuscated)	Nimbuzz	in.solit.us	Web-a-file	WarpFire	X-Font-Server	ICOOloader
eMule (obfuscated)	CameraWare	Mydatabus	BuddyBackup	Wolfenstein	X11	DigitalWizard
ExoSee	Mail.ru-Russian-Video	MyFabrik	Intronis	XX Wyvern	Remote Desktop	Iria
FileTopia	VyPress Chat	Supload	Tilana	XX XBlaster	Bonjour	LightnigDownload
FlashGet	Alwangwang	UpforDown	SystemRecovery	XX Zero Online	(Cisco) Radius	DropSend
F2F/Alliance	DKMessenger	WebCargo	BingoDisk	AsteriskAGI	Accounting	PockeyJP
F2F/Retrosahre	http://www.theuds.com/instant-messenger.php	WooFiles	Firstbackup	Bearshare7	CAPWAP	RealDownload
Furthur		OVI-Nokia	DellDataSafeOnline	Cabos0.8	Chargen	Octopus
Gnunet	IntraMessenger	FlyUpload	VaultUSA	Kceasy	Novel NDPAP	iNetGrabber
Gnutella	GoogleTalk	iFolder.ru	VeraVault	yahoo sports	Veritas SANpoint	BigUpload
Globule	Imagecave	Imagecave	SoSure	Akamai Mgmt	CiscoTFTP	Driveway
Goboooy	Miranda-IM	Load to	Sharepoint Blog Posting	IFM/C Mapping System	CiscoLog	DropSend
Grooveshark	FRING	MyFreeig	FC2 Blog Posting	FreeGamesZone	Cisco Telnet	JustUpit
Hopster	xfire	PicturePush	Japanese	Games/Allin poker	FingerCisco	LocalHostr
Hotline	TCHAT	Onlinedisk.ru	Apple Remote Desktop	Games/ScrabbleClub	Citrix	MailBigFile
I2P2	Mediating Talk	SnapDrive	Eroom.net-EMC	Misc/GEAC/CIRC	Citrix Jedi	Condor Replication
iMesh	Fetion	Tinyupload	Documentum	Media/KyteTV	Consentrylog	Service
KaZaa/FastTrack	Inbit	FlipDrive	Facebook Mail	Misc/CodaAuth/Likely	CX300SAN	LOCKSS library
Kontiki	AdiIRC	HotLinkFiles	Gmail	Misc/Pyxda	DCC	Oversim
Manolito	ParaChat	Uputus	Horde/IMP	PickupListchecker	Defendbase	Planetlab
Mute	Chat80 basic	Clip2Net	IMAP (plain, SSL, TLS)	Seesmic	Fortinetfw	Ghost replication and
Omemo	Pidgin	Sendalong	Mailman	ThreeRings	GIOP	backup
Openft	WMS Messenger	Storyz	MS Exchange	Paran	GoAway	Panda AV Server
Pando	ZoiPPE	FileVoom	My Space Mail	IRCR	GRE	Hobbit Logging
Joltid/PeerEnabler	ClosedTalk	ShareNow	Outlook Web	Chat/NokiaOZ	HP-printing	Altera Quartus Design
PerfectDark	FTP-all	Go Aruna	POP3 (+SSL)	Misc/SpectrumOnline	HTTP Proxy	Sportsline
Pico	DisK Pump	BigFileHost	SMTp	Games/Shoddybattle	Ident	Safebox
Share EX/NT	FTP Proxy	Reimagine	Squirrelmail	Mincip	IPP-printing	Xiaonei
Soulseek	Foldershare	Mongofiles	RoundCube Webmail	Fin/MBTrading	LAN	KyteTV
Thunder (Xunlei)	Veritas NetBackup	HugeDrive	Verizon Webmail	Games/Neopets	LANadmin	OpenDHT
Utatane	NFS	WIXI	Alpine Mailer	FIN/Worden	Printer Spooler	Iminlikewithyou
Vagaa	ms-ds-smb	Uploadjockey	Nail Mailer	Games/Minglematch/	LPD-printing	Itiva
Waste	idisk	Zippyshare	Opera Mailer	Chess	MS-WIN-DNS	Kongregate
WinMX	Deposit Files	Rapidspeed	Turnpike Mail	DB/SciFinder	MS-WINS	Freenet6
Winnny	OnlineFileHosting	Adobe-Share	Thunderbird Mail	Games/Sayclub	MSRPC	DNS
WinnnyP	drop.io	FileXom	SmartMailer	Misc/yapta	Multiping	LDAP
XDCC	DropBoks	FileWind	QOmail	Misc/DOA/HandleNet	Netbios-dg	Kerberos
Zultrax	EatLime	Filebanker	MagentMRA	Chat/Sparknetworks	Netbios-ns	MSAD
Gazzera	FileDropper	Yorfilelink	SPAMBlocked	Games/VinaGames	NTDMS	mDNS
Gloster	MediaLife	2BigZSend	Yahoo Email	Games/Byond	RADIUS	SNMP
CSpace	MeGaupload	HotShare	Fastmail	Chat/Pairingo	PPTP	WHOIS
SouGood	Openomy	PineBytes	MS Entourage	Games/ArcanaRO	RIPv2	Backup-
Kamun/PPFiLM	Rapidshare	Fileai	Pyzor-antispam	Misc/IntelliNetWebcam	RioingSPX	LegattoNetworker
Maze	Rapidupload	ShareSend	IMP	Misc/CitrixProxy	RPC	acronis
OFF	Sendspace	FileWorks	The Bat	Chat/Starwave	RPC-SUNRPC	Brightstore HSM
Freenet	WebDAV	SendFile	Sylpheed	Games/DotA	RPC-SUNRPC-NIS	McAfee SiteAdvisor
Boinc	Yourfilehost	Arkiva	Voyager/VRMP - EMC	Misc/Hope	RPC-MSRPC-rdsid	McAfee Personal
Brunet	Yousendit	KeepSync	FOREXreywoodUNK	Games/GunzOnline	RPC-MSRPC	Firewall
FileGuri	zShare	FreeDrive	MrSwing Messenger	Games/NHN	RPC-MSRPC-parsec	CloudMark Anti-Spam
PPMule	zUpload	MediaMaster	InterbankFFX	P2P/FreeChalkR	RPC-MSRDP	Google Safe Browsing
TuoTu	Putfile	WikiSend	JQKA	P2P/GetFilm	RPC-NTLMSSP	IVMG-Probe
P2PIA	Easy-Share	OptionsDirect	Uploadrive	Media/Tivo	RPC-RisingSearchAgent	NESUS-Probe
Orbit	FileFactory	SooChowSecurities	FileFront	Misc/Slurpie	SMB	helpfixpc-SPAM-MSGR
WebThunder	FileHost.tv	Z39.50	NetGull	Chat/Groopz	SSDP	regupdate-SPAM-MSGR
Kugoo	WiiUpload.net	MSSQL	Spread-It	Misc/UNICAL	SSH	Uploading
Fileswire	Uploadingit	MobicareDB	Dump.ro	Misc/DicID	Telnet	Megashare
PPGOU	Uploaded.to	DHCP	MyDrive	Misc/PNMM	Teredo	Transfer Big Files
Napster	TurboUpload	Box.Net	SWISSVAULT	Misc/Huntmine	UPNP	Windows Live SkyDrive
Kuro	SpeedShare.org	Mozy-An EMC Company	SimpleUpload	Misc/Probes/TracerX	Xerox-Printing	4shared
ichat-av	ShareBig	IDrive	ShareBig	Misc/Ruckus/Cache	Hostmon - LAN	.docxoc Beta
Three Messenger	ShareBee	IBackup	Slammer-WORM	Misc/Rating/ICA	Novell Time Sync	Totocxpress - content
TVCONNECT	Sendmefile	Backup-Symantec	Adobe/Acrobat	FiN/QuoteM	DBSA-Licence	delivery
OPENH323nagios	SaveFile	BackJack	Apple software update	P2P/Cubit	FLEXLM--License	eSnips
Spark Voice	Rapidshare.de	Iron Mountain	AVG AV update	Misc/OpenDHT	MATLAB-Licence	ExpeDat
SinaUC	Gmail-chat	ISStorage-Iomaga	Avast! AV update	Games/Iminlikewithyou	Rhapsody-Licence	Zoho Share
SightSpeed	Gigasize	Xdrive-AOL Service	Avira AV update	Mionet	MSOfficeMAC-Licence	Zoho Viewer
CiscoCTI	Ultrashare.de	Carbonite	Bitdefender AV update	DragonflyStorm	MSWordMac-Licence	EZYFile
Windows-POPUP	Fileuypours	SOS Online Backup	CiamAV update	AnarchyOnline	Synopsys-Licence	Jumpcut-Beta
Ventrilo	Files-Upload	BackUpSolutions	Norman AV update	Games/XFire	linkproof	Punch Networks
Effusia IM	Files.to	Backblaze	HP Software update	utorrent	MDAP	Yourfiles.biz
Praize	Filesend	Steekup - France	Java update	P2P/BitSpirit	Novell I-Print	Badongo
Chikka	Filer.net	Diino	Kaspersky AV update	P2P/BitTorrent/Moopolice	SunRay server	Bitroad.net
IMVU	Mofite-Chinese	ClunkClick	McAfee AV update	P2P/BitTorrent/Deluge	Iperf	NetMeeting/H245
Firefly	FileDen	DriveHQ	MS Windows Update	BitTornado	Office live web services	Sogou
PIC-HAT	Filegube	FileGub	Microsoft BITS	P2P/Aquisition	TrueShare	Vovida
MySpaceIM	BigFileZ	Korean	Sophos AV update	P2P/BitTorrent/DNA	Yuntaa	MSN/Voice
http://www.omnik.com/pages/index.jsp	Angelbackup	rsync	Elephant Drive	UPlayMe	G.ho.st	STUN
Omnik	CrashPlan	cvsup	File123	AIM	Battlefield	eyeBeam
NetMeeting/H323	Egnyte	MobileMe	MP3Tunes	Digichat	Ba	JabberSocialHI
Zfone	Orbit Files-chinese	Wuala-Alpha	MyOtherDrive	OpenIMSCore	(i)Zimpro	CiscoIOSGW
	SIP	Jungle Amazon	Singlephonenet			
	Net2Phone	Fluxiom	TalkEZ-AV			
		Allmydata				

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Appendix C: Sample of signatures generated

[illegible]

(11) Software and Hardware

Not foreseen as part of the project deliverables.