# Who is Mr Guo?

intrusiontruth.wordpress.com/2019/07/17/who-is-mr-guo/

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In our last post, we stated that a source whose identity we had verified had named an MSS Officer in Jinan who was believed to be involved in Cyber operations. We are now in a position to reveal that the name provided to us is 郭林 (Guo Lin). Open source research conducted by analysts working for Intrusion Truth quickly revealed a potential candidate for Guo Lin.

## **Guo Lin, Masters Student**

An <u>IT security paper</u> from 2007 called '基于多维角度的攻击分类方法' (Method of Classifying Attacks Based on Multi-dimension) was authored by a Guo Lin in which he described himself as a Masters student conducting research into network and information security and malicious code detection. Guo was a Computer Science student at Nanjing University (not Jinan), making it uncertain whether he is indeed the same individual in Jinan named in our tip.

There is nothing wrong with being a Masters student, of course. So let's take a look at what else Guo has been up to.

## glince[at]163.com

Our high confidence that we have the right person comes from the e-mail address used by Guo in the paper – glince[at]163.com. We will show how the e-mail address links Guo to Jinan.

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# 基于多维角度的攻击分类方法\*

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翔 要:提出了一种新的基子多维角度的攻击分类方法,给出分类的标准和结果。通过对诸多攻击挥例的分类 来验证所给的攻击分类方法,并对此攻击分类的方法作了客观的分析评价。

关键词: 安全; 攻击; 攻击分类; 分类原则; 分类标准

中国分类号: TP893.08 文献标志码: A

文章编号: 1001-3695(2007)04-0139-05

#### Method of Classifying Attacks Based on Multi-dimension

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Abstract: A new attack classification method was put forward and delivered the criterion and results of the classification. This method is validated by classifying many attack samples. At the same time, an objective analysis and estimate of this classification method were given.

Key words: security; attacks; attack classification; classification principle; classification enterior

#### 0 引音

在计算机技术和网络技术发展及应用范围不断扩大的同时,对计算机和网络的攻击也日益增长。根据美国权威安全事件应急处理组织 CERT/CC 最新发布的统计报告 111,2003 年 CERT/CC 受理的安全事件报告达到了137 529起,比 2002 年增 2017 50%以上。

对计算机系统产生的一次危害可能由一个攻击行为或一 系列的攻击行为造成。攻击技术发展迅速。迫切两要对攻击行 为进行深入编数的研究和分析,以便及时发现攻击行为的发 生、发掘攻击行为之间内在联系,从而有效地检测和对抗攻击。 减小攻击造成的危害。目前,各种不同攻击检测和防倒产品大 重出现。但是。由于当前研究人员对攻击理解的差异,对攻击 的判定和特征提取方法的不同。给各防倒系统之间的交互和协 作带來了固难。研究攻击分类能有效地解决上述问题。对攻 击合理分类是研究攻击的前提。它可以为攻击提供统一的描 述语言,便于不同研究组织之间进行交流;使用系统的方法来 认识、描述攻击有利于阿化对攻击的理解。把握攻击的本员特 征和基本员理,更好地检测和防倒攻击。

网络攻击事件所造成的危害和潜在的危险缺乏统一的衡量 准则。研究攻击分类的目的是为了给出一个普遍运用的认 该和理解攻击的框架。本实提出了一种新的攻击分类方法。 这个分类方法主要是在对目前已存在攻击的研究的基础上 提出的。分类的组是也同样运用于对朱出现的攻击进行分 类和系统的描述。

## 1 相关工作

#### 1.1 攻击分类的基本原则

20世纪90年代中周期,研究人员对攻击分类的原则进行 了较多的探讨<sup>[3] 4</sup>]。研究者们从不同角层考虑攻击分类。文中提出攻击分类应该遵循的原则主要有以下几条:

- (1) 互斥性——各类别应是互斥的, 没有交叉和覆盖现象:
  - (2) 罗攀性——全部提别包含所有类型攻击;
  - (3) 完二义性——各类别精确、清晰。没有不确定性;
- (4)可重复性——不同人根據同一原則重复分类的过程。 得出的分类结果应该一样;
- (5)可接受性——分类符合逻辑和重觉。易于被大多数人 88号。
  - (6) 可用性——分类对不同领域的应用具有安用价值;
  - (7) 运应性——可运应于多个不同应用要求:

收集日期: 2006-02-13; 修進日期: 2006-04-14 基金项目: 图案 %63"计划资助项目(2003AAH2010); 但苏省英拉水研究计划资助项目(BG2004030)

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Guo Lin's academic paper showing his e-mail address antorsoft[.]com

Historical WHOIS data shows that the e-mail address glince[at]163.com was the original registrant of a number of domain names and was the admin contact for antorsoft[.]com.

```
Domain Name..... antorsoft.com
Creation Date..... 2008-12-21 21:56:08
Registration Date...... 2008-12-21 21:56:08
Expiry Date..... 2009-12-21 21:56:08
Organisation Name...... JiNan QuanXinFangYuan Tech Co.Ltd
Organisation Address...... No 238 Jing Shi Dong Lu
Organisation Address.....
Organisation Address..... JiNan
Organisation Address..... 250000
Organisation Address..... SD
Organisation Address..... CN
Admin Name..... Guo Lin
Admin Address...... No 238 Jing Shi Dong Lu
Admin Address.....
Admin Address..... JiNan
Admin Address..... 250000
Admin Address..... SD
Admin Address..... CN
Admin Email..... glince@163.com
Admin Phone...... +86.53168690179
Admin Fax..... +86.53168690179
```

#### Antorsoft historical WHOIS

## Jinan Quanxin Fangyuan Technology Co. Ltd.

Domain registration information for antorsoft[.]com names the registrant as Jinan Quanxin Fangyuan Technology Co. Ltd, which translates into Chinese as 济南全欣方沅科技有限公司. The address is listed as 238, Jing Shi Dong Lu, Jinan, 250000, Shandong, China. Importantly, this company is based in Jinan, just where our tip said Guo Lin was based.

<u>Another Chinese website</u> lists a different address for the same company at No. 12, Qilihe Road, Licheng District, Jinan, Shandong:

基本信息	
企业名称:	<b>汗夷全欣方</b> 况料接有限公司
名称拼写:	ji na quan xin fang yuan ke ji you xian gong si
联系人:	意松
联系电话:	***65064220
作案号码:	***65064220
城市区号:	0531
Q Q종중 :	★B型
##### :	无
注册资本:	<b>未填写</b>
年曾业前:	暂未获款
注册人数:	50-100人压在(人)
总和资产	无维息
电子影響:	***65064220@qq.com
多机号码:	****
企业模式:	提界型企业
斯在督份:	<u>业历企业大会</u> ·济夷企业大会
所在地址:	山东省济南市历城区七里河第12号榜城根0-5
彩麗行业:	T及数据-工业检验计算机及外部设置
郎本義符:	250100

# Second address for Jinan Quanxin Fangyuan Jinan Anchuang Information Technology Co. Ltd.

However, the website for <u>Antorsoft</u>, which was still active at the time of writing, names the company as 济南安创信息科技有限公司, which in English is rendered Jinan Anchuang Information Technology Co. Ltd. It claims to be a 'state-level high-tech enterprise that integrates development, productions, management and technical services with scientific research as the guide'. It claims to 'strive to become an excellent supplier of global information security services and communications products'.



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数据服务

济南安创信息科技有限公司成立于2008年,是一家以科研为先导,集开发、生产、经营、技术服务为一体的国家。 级高新技术企业。

济南安创信息科技有限公司现拥有专业的信息安全与通信技术研发团队,在充分吸收国际先进技术加强自主开发的同时与国内外大公司进行广泛的深层次的合作。

济南安创信息科技有限公司一直执著于信息安全和 电力自动化的产品研发、生产、销售,坚持科技创新发展的战略,已形成广泛服务于信息安全、电力、能源、通信等行业领域的专业服务和产品体系。

展望未来,济南安创信息科技有限公司将努力成为 全球信息安全服务与通信产品的优秀供应商,在这个充满机遇和挑战的新经济时代,安创公司将以市场为导向,以人才为根本,以技术为支撑,以资本为纽带,打造一个实力维厚、核心竞争力强大的国际化企业。

安全由心,创造未来,是安创人的胸怀与抱负!

#### 主要业务







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互联网医疗



数据服务

Antorsoft website showing Jinan Anchuang as the company name
On a second page Antorsoft claims to look at Cyber Security issues from the perspective of those committing Cyber attacks. What an interesting perspective to have chosen...



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当前,网络安全形势愈加严峻,网络入侵事件层出不穷,对于掌握核心技术以及核心资源的大企业来说,网络安全关系企业生存发展。2011年,从事安全证书发放业务的 DigiNotar 公司被入侵,攻击者以该公司的身份签发了超过 500 个假证书,最终导致 DigiNotar 公司破产。这可能是第一个被公开披露的因入侵而破产的公司。2016年,冰岛总理成为第一个因入侵事件而辞职的国家首脑。

现 在,很多企业和公司已经开始重视网络安全,但是企业或者公司内部没有自己的专业安全团队,面对网络威胁,无从下手,手足无措。针对这种情况,我们提供管家式的专业安全服务。主要服务内容包括:网络结构安全评估、网络边界安全检测、内网脆弱点分析、应用审计、应急响应、安全培训和安全加困服务。

我们的团队的核心人员都是从2000年左右开始从事网络安全,并且一直工作在安全的第一线,不断跟踪各种安全技术和安全动态,具有深厚的攻击和防御技术功力。接触过多种类型、各种行业网络。我们的核心理念一直是,以攻击者的视角来发现问题,切实提高客户网络安全。

#### 主要业务







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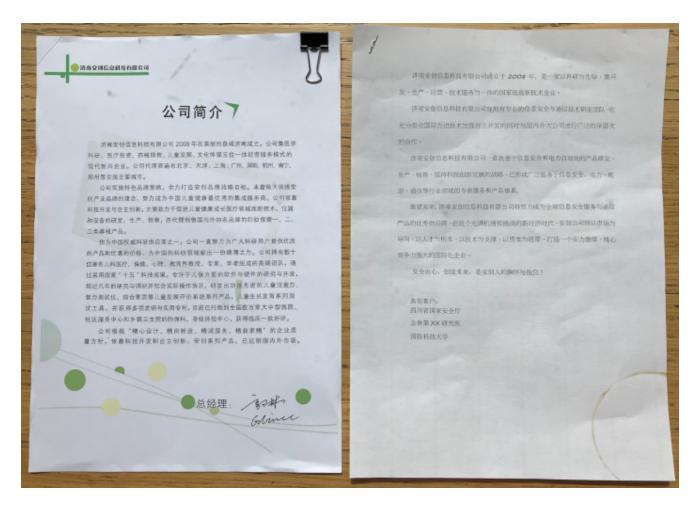
CopyRight 2012-2016 All Right Reserved 济南亚创信粮科技有限公司 地址: 济南市历下区经十篇999号贾全B扩化广场F在1217号 Emailsale@Antorsoft.Com

# Antorsoft description of services offered

# A healthcare company? With MSS links?

So far, so good. We've got a likely MSS Officer running and Information Technology company, or two, on the side. Why, then, in this brochure (left) – which we were passed by a friend – does Jinan Anchuang claim to be a healthcare company focusing on child health development? It is definitely the same company – you'll see that the brochure is signed by 郭 林 (Guo Lin) using both his name and his 'Glince' nickname.

All becomes clear in a second version of the same document (right). No headed paper, no signature, but the same company name and founding date.



But. The description is different. Now it's an IT company. And at the bottom is a list of clients, including 四川省国家安全厅, the Sichuan State Security Department. For those not experts in Chinese national security departments, the SSSD is the provincial department of the Ministry of State Security in Sichuan.

### Oops.

Sichuan isn't Shandong, where Jinan is located, but perhaps we will find more links later.

### Use of alias names?

This is one of our favourite discoveries. Using (previously hacked and released) data from Chinese messaging service QQ, we were able to find Guo Lin's QQ account, which is 21213804. At the time that the data was released, 21213804 was a member of a number of QQ groups. In many of these, the name he used was 郭林, which is transliterated 'Guo Lin'. So far so good.

But the QQ data shows that he was also a member of an 'Antorsoft' group (QQ number 7043291) created in 2004. In that group he used the name 林子 (Lin Zi), Lin being his first (or 'given') name and Zi, in this instance, being used to extend a single syllable name into a nicer sounding two syllable word (Zi roughly translates to 'thing'). For the purposes of our analysis we will translate 'Zi' as 'Mr' – think <u>Reservoir Dogs</u> and you'll see why.

Looking at the other members of the Antorsoft group in the QQ data, a pattern begins to emerge. Each of them was a single name – some connected to their real name, some apparently random – with 'Zi' appended. In many cases, it seems to form a sort of nickname or 'codeword' – 林子, for example, means 'Mr Forest'. Here is the complete list:

- QQ 21213804 uses 'Mr Forest' 林子 (Linzi) in the Antorsoft group but normally uses the name 郭林 (Guo Lin)
- QQ 10832991 uses 'Mr Ocean' 海子 (Haizi) in the Antorsoft group but normally uses the names 龙海 (Long Hai) 'Dragon Ocean' and Fei Long (飞龙) 'Flying Dragon'
- QQ 23793808 uses 'Mr Bamboo' 竹子 (Zhuzi) in the Antorsoft group but also the name 'Zhuyuzi'
- QQ 87414156 uses 'Mr Monkey' 猴子 (Houzi) in the Antorsoft group
- QQ 369782831 uses 'Mr Pine' 松子 (Songzi) in the Antorsoft group
- QQ 1137938323 uses 亮子 (Liangzi) in the Antorsoft group
- QQ 26250040 uses 'Mr Chen' 陈子 (Chenzi) in the Antorsoft group but also the name 雨巷 (Yuxiang) or 'Rain Alley'

Interestingly, Yuxiang was also in a QQ group called 江苏公务员考试交流 (Jiangsu Civil Service Examination Exchange), created in 2009. The group description is the 南京大学公务员考试群 (Nanjing University Civil Service Examination Group), giving us another link to Nanjing.

In summary, we discovered two IT Security Companies based in Jinan, affiliated with a Chinese individual who studied Information Security to Masters level. Our source claims that individual is an active MSS Officer involved in Cyber operations. One of the companies appears to have some sort of healthcare company front, whilst simultaneously claiming to be an SSSD InfoSec contractor. And employees use alias names on QQ when dealing with Antorsoft.

What we still don't know is: who else works in these companies and do they have any connections to APT attacks?

#guoknowswherethisleads