

Rice Tea

- Julien McArdle -

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Cover Photo by Nintaro.

In memory of Steve Cisler.

Introduction

I would like to thank you for having purchased this book, though if you're anything like me, you've probably downloaded it for free as you contemplate whether it's worth your monetary support.

This book has come a long way from the six-page film concept that I originally concocted sometime in late 2006. Originally slated to be a realistic take on the 1995 film *Hackers*, this project evolved to become an entirely original story on its own.

If there is one thing that hasn't been affected by the metamorphosis from a screenplay to a novel, it is this work's adherence to reality. While the overarching story line may be fictitious, the technical abilities represented are not. They mirror the true experiences of those talented few that populate the digital tubes.

To that end, I would like to acknowledge the following for their valuable contributions on the interwebs that helped shape this novel:

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PROLOGUE

Enter the Blackhat

In the windowless basement of a suburban home, in the wee hours of the morning, sat a twenty something man perched over the glare of his multiple computer monitors. In the one, he was playing some Hentai – at this point, the animated high school girl was giving off high-pitched squeals typical of the Japanese genre as she was being thrust into by her male compatriots.

However, at this point, the hacker wasn't paying any attention to the video. Rather, all his attention was focused on his other monitor. In it, he had a terminal window open in which he was issuing commands, the green text of his typed words set on a backdrop of black.

The desk on which his computer lay was pristine – his monitors and speakers were placed in perfect symmetry, the flat surface completely devoid of dust. This was an anomaly in this basement room, with the rest in utter disarray. Clothes were strewn all over, the posters were peeling down, and used cans of caffeine energy drinks peppered the floor. In this mess were also various technical books, usually opened to a certain page, on topics such as C programming and the TCP/IP protocol.

The hacker entered a few final commands in the terminal window, and sat back watching the screen spurt back copious amounts of text. The man smiled in relief. It was working, and on the first try. He had succeeded.

ONE

Just Another Morning

Seth lay in bed, his alarm buzzer still ringing by his side. His head turned to face the source of the annoyance, and with it, his arm came violently down to silence the contraption. The buzzer continued. He had missed. With a sigh, Seth took a better look at the alarm and navigated his fingers carefully around its buttons. With a small tap, the room turned quiet.

Seth was an average height, average build, twenty-two year old. His face featured brown hair and green eyes, the latter usually complimented by his stylized translucent glasses.

Slowly getting up, he turned his head to look out his window. His room on the upper floor provided a nice view of the greenery behind his townhouse, a rarity in the bleak asphalt and concrete landscape that surrounded him.

After a quick shower, Seth put on some clean clothes and worked his way down the stairs. He turned to go into the living area, or the “man center” as he sometimes called it. Against the wall stood a large second hand television, to which game consoles of all sorts were plugged in – between him and his two roommates, they owned all of the most recent gaming hardware. Beneath the television and the consoles lay a hefty rack-mount server, that would appear to be more at place in a data center than a residential home. To the side of this humming machine was a laser printer, with a single freshly printed out sheet.

Seth snatched the sheet, and brought it to the kitchen. Inside, he found his roommate cooking some eggs. Grabbing a lone magnet on the fridge, he posted up the piece of paper. The sheet was the product of Seth's boredom one afternoon, an automated script on the server that would run every morning at 6:30AM. It compiled weather information with the day's top tech headlines and some statistics about the server's current performance.

On this day, much like those before it, news of the Météo botnet were making the rounds. A new update had been released overnight, and more than 120,000 computers had thought to have been infected in the space of hours. While these newly enslaved machines might seem fine to their owners, they would in fact covertly be used to relay spam or assist in large-scale fraud operations. This was bad news for system administrators the world around.

Seth's focus was however not in these news, but rather the breakfast he would make himself. As soon as he had pinned up the sheet, he opened the fridge door to reveal its lackluster contents. He grabbed the loaf of expired bread, and put two slices in the toaster. Turning to his roommate, he asked:

"How was the LAN party last night? I didn't see you come in."

"Yea, we went for some karaoke after. We beat Carleton U's comp-sci team again." Always glad to hear when the other university in town had been beat, Seth replied "Good stuff."

Seth ate his toast, loaded up his MP3 player with some new songs, and prepared his bag for school. On his way out, he yelled back "I'll get the mail!"

TWO

University

It was perhaps early spring, but with the sun beaming down it felt almost like summer. The snow that had been so pervasive the month previous had entirely disappeared. People were no longer shackled by the heavy winter coats that were a necessity even the weeks before. Seth felt unusually liberated as he wore his light-jacket on his twenty minute walk to the nearby transit station.

The transit system in Ottawa was a hybrid of diesel buses and light rail. Every morning, Seth would walk to the nearby station where he would grab a train down to his university. Over the years since his move to this city, he grew fond of the transit network's efficiency.

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After a twenty-five minute ride, Seth's train stopped right on front of his campus, and he got off. A large sign, written in both English and French, welcomed him to "Canada's University." He had always found the University of Ottawa's bold assertion rather amusing.

Walking through the university center, Seth stopped to grab a coffee. French vanilla, as per usual. As he poured in a bit of milk, he looked up to a nearby mounted television screen at the news. The price for the barrel of oil had again increased, and three analysts were feverishly debating the source of this latest hike.

“Seth!” Seth, shaken out of his television-induced stupor, looked around. A young man was fast approaching him. He was built, his goatee well-trimmed – the man looked like a twenty year old version of a Hollywood top actor.

“Oh hey Jinks,” Seth replied unenthusiastically.

Jinks went on. “So I tried hacking that 127 dot whatever IP address you gave me yesterday. I used Sploitster and everything.”

“Find anything interesting?” Seth responded.

“Yeah! Check this out!” Jinks pulled out a newspaper from his side, practically shoving it into Seth's face. Jinks continued. “It was an ATM!” Seth was still readjusting his eyes to read the newspaper held up so close to his nose.

“Look!” Jinks exclaimed. “It spewed twenties randomly on the ground somewhere in hick-town Saskatchewan. That was me!”

The Internet Protocol address Seth had given to Jinks was a loopback – it was a specially assigned address that would connect Jinks to his own computer. Jinks couldn't of accessed any other computer using it, much less an ATM. That was the thing with scriptkiddies like Jinks: they knew how to use certain programs to cause damage, but they didn't know the most basic tenets of computing.

“Uh huh, nice. Look Jinks, I gotta go to the washroom. Classes start in three minutes. I thought you had some now as well?”

“Yeah, well just one – Polish cinema. I should go too. Later Seth.”

“See ya.”

Seth threw the remnants of his coffee in a nearby bin, and walked to the nearby door. Past the door were large concrete steps that brought students to the lower level of the university center.

Seth walked down the steps. At the bottom of the stairs, he could see the washroom doors in the distance to his left. Turning in the opposite direction, he headed down a long hall, an into an open doorway which greeted students halfway down. He had come into the dark, funky smelling, dungeon that was the university's arcade. Save for a lone light hung atop of an old pool table, the room was entirely lit by the hyperactive screens of its coin operated games. Seth figured that most of these machines had to be at least twenty years old, but these retro games were cheap to play and had really caught on with the campus' students.

Seth walked up to the *Street Fighter II* slot arcade machine, where two students were furiously shifting their joystick and mashing buttons trying to beat each other's virtual characters to a pulp. Seth, looking at the taller of the two players, subtly pronounced "Gab, we got class in less than five." The message received no reply, the player's attention entirely consumed by the machine. However, the pattern of prerecorded pained grunts emanating from the game's characters started to shift, and within seconds, Gabriel had dealt the finishing blows. He looked back at Seth.

"Okay, I'm done."

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The duo walked with utmost haste down the halls of the university's computer science and engineering building. It was amongst the newest structures on campus, with a design that proudly showed off its support beams and heating ducts to all its patrons. It was also home to numerous computer labs, rooms filled with networked computer stations.

Stopping by one of the doors, the two quietly entered. The professor in the midst of discussion paused for a brief second at

the interruption, glaring at the two late-comers. Seth mouthed his apology to the unimpressed teacher, who then continued on his lecture. The two found some empty seats near the back and listened to the professor, slowly getting their bags off their back as to not produce any further noise.

The professor went on. "This term project is worth 30% of your final mark ladies and gentlemen, so listen up." Seth logged into the computer on front of him, paying only half-attention to the words of his middle-aged lecturer. Looking off to the side of his computer monitor at his fellow classmates, Seth's eyes couldn't help but to fixate themselves at the girl sitting half-way down the room. Her name was Kerstin. She had a rounded face, shoulder-length black hair arranged in a ponytail, and a very cute European accent that came out whenever she asked questions. To top it off, she was an extremely competent programmer. Whereas others wrote limiting textbook answers to the problems given in class, she was one of the few that could think outside the box and develop intriguing efficient solutions.

The professor's unintelligible droning voice was punctuated by Gabriel's clear whisper.

"I think you're freaking her out."

Kerstin was staring back directly at Seth. Abruptly shaking out of his apparent daydream, Seth's eyes immediately returned to the idle screen on front of him.

"Fuck," he muttered.

"Not bad," said Gabriel. "You haven't even met her yet and she already thinks you're a freak. It only took you what – three months?"

"Yeah, thanks." Seth replied with a smirk.

The professor went on for some time on the minutia of memory management in operating systems. Finally, alerted by the communal ruckus of students packing their bags, the lecturer took a look at his watch.

“Oh look, we're all out of time. See you next time, and take a look at the assignment due next week!”

Stretching his arms, Gabriel looked to Seth. “Are we still on for the beers?”

“You know it.”

“See you there in what... ten minutes?” Gabriel continued.

“Sounds good to me,” replied Seth.

THREE

The Digital Losers

Seth sat waiting at a table at the local university pub, *1812*. It was one of his favourite hangouts. Not only did it provide a great view of the campus, but the beer was decently priced, and it was rarely home to more than a few patrons.

Coming by with two beers in hand, Gabriel sat down, sliding one of the alcoholic beverages to Seth.

"Thanks."

The duo took out their laptops, and flipped them open. As he was waiting for his laptop to boot up, Seth began speaking. His gaze did not shift away from his laptop screen.

"You know, I'm really going to miss all of this."

"Miss what?" asked Gabriel in return, as he sipped his bottle.

"University. All those parties. The stupid shit we've done. Feeding the hamster weed. Or like after Christmas - making roadblocks with the trees people were throwing out."

"...or the races down the hill with the computer chairs," countered Gabriel. "It went by fast, didn't it?" he finished by saying.

"Yeah, it's depressing," concluded Seth.

"It doesn't have to end though. At least not that fun stuff."

Gabriel looked back down at his laptop. It had now finished starting up and was standing idle. He began typing a few commands.

"Let's see what kind of catch we have for today," he mused.

Gabriel's laptop was connected to the nearby wireless repeater, a device to spread the specialized digital signals across campus so that all students with a wireless-enabled laptop could instantly log on to the Internet. All computers connecting to the repeater were added to a pool of networked computer, which all accessed the Internet via a central gateway. This was entirely automatic, and so the average student wasn't aware of all the technology that made this seemingly magical Internet access possible. This also meant that they were quite unaware of the extent to which their computer was made vulnerable by subscribing to such an open network.

Gabriel didn't need any specialized programs to explore the hard drives of the computers that had connected to the network. All from his seat at the pub, he could explore dozens of computers at will, logging into them much in the same way as a legitimate user. Gabriel's seemingly limitless access was based on the fact that most computer owners did not bother to set an Administrator password. Such an oversight made these machines extremely vulnerable to takeover, especially when connected to a local network like the one in the pub. To people like Gabriel, the contents of these machines were as good as his.

Poking around the hard drives of various machines, Gabriel soon found something of interest.

"This guy's interesting. Looks like a prof's slides for a class."

Seth was now looking over Gabriel's shoulder. Looking towards Seth, he asked,

"Shall I?"

Sometime in the next month, a professor was giving a lecture in one of the university's many halls. His carefully prepared slides were projected to the front. The professor spoke to his students.

"...and so the biota in these sedimentary rocks can serve to identify the local conditions in the environment of deposition."

With these words, he moved to the next slide. The class of 400 students erupted in laughter. Puzzled, the professor looked back at the projected slide. Instead of the images of microscopic life he had prepared, there was a single repeating video clip of a bug-eyed hamster giving a very human-like look of surprise. Beneath the video was a short caption: "Brought to you by the Digital Losers."

The Digital Losers was the name that both Seth and Gabriel had given themselves to mark their pranking exploits. It had served them well since the duo had come up with the name in their second year of university. The two also maintained a website where they regularly published their latest exploits, often accompanied with audio clips or video footage.

The professor hurried to his nearby terminal to look at his slides, and drew a quiet sigh of relief upon seeing that all his slides remained intact. This rogue slide had somehow been inserted amongst the legitimate content, but none of the real slides had been affected.



Back at the pub, both Seth and Gabriel were still working on finishing their beers.

"I'm tempted to start university all over just so I can stay here," said Seth.

"Get a master's."

“I could...” Seth went on, “but as weird as this sounds, its the social experience of getting raped in my first year classes that I miss most.”

“Yeah, that is weird.”

“Thanks... oh hey, I got a guy here.”

Seth, who was also doing his own sleuthing, had stumbled on another professor's computer. He looked around the computer's various files, and discovered some slides dated to be presented in the coming week.

Taking a look at the file containing the slides, Seth saw that it began with a pie chart presenting the break down of the last midterm. In this calculus class, forty-three percent of students had failed their examination, and the professor was ensuring that they all knew it. Editing the text in pie chart from his laptop, Seth changed the wording from “Failed Midterm” to “Sucked Ass.”

As Seth was performing the edits, he continued to speak with Gabriel.

“I have been giving this second degree a lot of thought. Biochem was not the major I should have taken. I want to go into computer engineering.”

“How many more classes would you have to take now if you wanted to make the jump? How many have you not taken?”

“I'd still have two more years to do.”

Gabriel gulped down the remainder of his beer. Looking at the empty state of Seth's own drink, he asked, “Want another one?”

“Sure,” came the reply.

FOUR

Kerstin

It was Friday morning. Seth lay in his bed, the low rumble of his snoring emanating from his throat. Suddenly, the cellphone by the alarm clock to his side started to vibrate in loud intermittent bursts.

The snoring stopped, replaced by a loud sigh. Seth blindly grabbed the phone, and putting the screen to his squinting eyes checked to see who was calling. He pressed a button on the cell, and in a tired voice said,

“Hey mom, how are ya?”

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As Seth went to his classes that day, he was unable to shake the thoughts of Kerstin out of his mind. He wanted to know more about her, but there was nothing to go by. They had no common friends with which to approach, and searching her name online had yielded nothing.

Later, as he walked down the bustling halls of the university with Gabriel, Seth stated,

“I think I’m going to ask her out.”

“Who? Kerstin?”

“Yeah. But whatever chance I had I think I killed it by staring at her for an hour straight without realizing it.”

Gabriel paused for a second, and remembering of an even that was to take place the upcoming weekend, said,

"So how about this: I'll invite her to the Saturday hackfest."

"She'll say no," was the quick reply.

"If it's you asking her, then maybe. Or okay, most probably. But I bailed her out with her on that microcontroller project. We've worked together a few times. Who knows, she might say yes."

"Mmm." was the resilient half-reply from Seth.

Gabriel stopped walking and looked straight at Seth.

"C'mon. You have nothing to lose. Want me to ask her in class?"

Seth conceded.

"Sure."

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Seth had installed himself in one of the rear seats of the computer lab. The professor was at the front, preparing the slides on his computer. Kerstin was at her usual seat at the front, with Gabriel at the workstation to her side.

From his position at the back, Seth could see Gabriel leaning towards Kerstin. He couldn't hear what he was saying, but he could see Kerstin turning her head towards his and saying something back. Gabriel then leaned back into place.

Quickly typing into his open terminal window, Seth sent an instant message to Gabriel.

"What did she say?" he wrote.

"She can't make it. Some family affair." Gabriel wrote back.

Gabriel could then be seen typing something else in his own terminal window. Gabriel stopped, and Seth received another message.

"Sorry bud," it said.



Seth's disappointment was further compounded by the fact that he had to work that evening – something he didn't particularly look forward to doing on this day. Still, he thought, work was money. So like the other students that were employed at this university coffee joint, he donned the green apron and concentrated on feeding the caffeine addicts their overpriced lattes.

Coming home that night, Seth opened his townhouse door to see his roommate playing a game in the living room. Glancing back at Seth removing his shoes in the doorway, he asked,

“You ask her out?”

“Yes,” Seth produced, with a sigh.

“That bad eh?”

Seth smiled back at him, but said nothing.

“Want to play a bit?” his roommate asked.

“Sure.”

Seth approached the console, and the two began to play together. Within seconds, Seth's preoccupation with Kerstin had faded into the flashy colours of his television.

FIVE

Weekend Fun

The morning sun was shining in Seth's room, and for the first time in what felt like an eternity, his alarm buzzer had no need to go off. Substituting the potential shriek of the alarm, however, was the sound of a chainsaw as a man trimmed a tree in the greenery behind his home down to size.

Seth lay in bed, the pillows squashed against his ears. Various scenarios of gruesome deaths for the worker quickly filled his mind.



Seth spent the day doing the small things he had usually lacked time doing during his busy weeks. He went and did his groceries, he washed the pile of clothes hidden behind his door, and he read up some pages from his text books.

Late that afternoon, he biked over to Eric's place. He lived in his parent's single-storey home, in a nearby residential neighbourhood. Seth had first met Eric through one of the local hacker meetings that took place every month, but over the years they had become good friends.

Walking through the house's unlocked side door, Seth proceeded down the nearby steps. He could hear the discussion and the laughs emanating from the basement. "Hey guys!" he announced walking down.

Gabriel, Jinks, Eric, and a few others were in the basement. Laptops were strewn on the floor. Looking up at the new arrival, Gabriel said, "Hey! We're just watching the tail end of the new Binary Phunksters episode."

Eric's basement was a true computer enthusiast's den. Old system motherboards were hung on the walls as decoration. A disheveled desk was nearby, with an open monitor and computer parts laying on its surface. By one wall was Eric's true pride and glory: a six-foot tall mainframe server. This behemoth was considered obsolete by the data center to which it was previously home, and yet, it still sported more memory and parallel processing power than any modern desktop. Eric had managed to snatch this monolith for a mere two thousand dollars.

The guys, some sprawled on the couches, some gazing at their laptops, were all facing the projection on the wall. Eric was playing hacker shows being broadcast over the Internet. Seth sat down to join them. Taking a beer from the reserve in his bag, he flicked the imported aluminum can open, and looked up to the animated wall.

In this episode of *Binary Phunksters*, its hosts, Flow and i0, were detailing a prominent security flaw with the design of certain cellphones. As a demonstration, the duo walked down the fashion district of their native Toronto. Stopping on front of a store, they were able to turn the cellphone of an unwitting client inside into a virtual eavesdropping device. With a few keystrokes of their laptop, the voice of the client was heard over the machine's speakers. The victim was speaking with a strong lisp, discussing the importance of tie colours with a clerk. Flow and i0 finished the show by recommending basic security measures to avoid falling prey to the same kind of digital

hijacking. The duo then signed off and a quick bout of end credits aired.

The projector screen turned to black, and the synthesized voice of a female came on. "Next on rootTV," it said, "Hacker Jeopardy."

"I'll get another beer," said someone.

The introduction to *Hacker Jeopardy* began. The sequence showed footage of the various sights of downtown San Jose, part of the American Silicon Valley where the show was based.

The doorbell rang. Puzzled gazes appeared on the faces of the young men. Eric spoke out "Anyone invite someone else?" There was silence.

"No," said Seth. "I'll go check it out."

"I'll pause the show," replied Eric.

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Seth walked up the stairs to the side door. He opened it. It was Kerstin. She wasn't wearing the neat clothes she wore in school – this looked more casual. More artsy.

"Kerstin?"

"Hey... you!" she said in an uncomfortable voice. She went on, "Apparently there's a bit of a comp fest going on here tonight?"

"Yeah..." Seth replied meekly. "Yeah!" he affirmed, as if the stun of this surprise had subsided into ecstasy. Inviting her in with his hands, he exclaimed "Come on down!"

Descending the stairs, Seth spoke. "Gabriel told me you were invited, but I thought he said you had something tonight."

"My birthday party," she replied.

“Oh.”

Walking down the final steps, Seth looked at the curious cocked heads. “Hey guys,” he said, “this is Kerstin. She skipped her own birthday party to be here.”

“You skipped your own birthday party to hang out with strangers?” asked Eric. “Harsh. Happy birthday.”

“Yeah, happy birthday,” said Jinks.

“Thanks but it's next week,” retorted Kerstin.

Seth glanced at the people around the room. Extending his hands towards Gabriel, he said, “Okay, well this is Gabriel, who you already know.” He went on, “We also call him riscphree.” Turning to Eric, he said, “This is Eric, who also goes by the name of colonel_panic.” Looking at Jinks, he said, “This is Jinks... Also known as Jinks – he doesn't like us calling him by his real name. Then there's Dave, aka. hacknslash, Pat, aka. rm-rf, and Greg, aka. Nirvana.” Finally, Seth said, “I'm Seth, or ion, if you catch me online.”

“Are we ready?” asked Eric.

“I think so,” replied Seth.

Kerstin and Seth both sat down. Kerstin took her laptop out of her bag, and set it up on front of her.

“Beer?” asked Dave, presenting her with a can.

“Sure,” she replied.

Eric pressed a button on his computer, and the *Hacker Jeopardy* introduction resumed. It was a quiz show, much in the same vein as those seen on network television. The host of the game show was a man in his early thirties with already graying hair. He presented the audience with his three contestants. Two were university computer science students, and one worked as a freelancer IT security specialist.

The show began, and the first contestant was asked to pick a category from a pool displayed on a very large screen. The contestant, a thin teenager wearing glasses and a stylish blouse, had chosen the *Vulnerabilities* category.

The host provided the first question, "OpenBSD is widely considered to be one the most secure operating systems ever released. Name one of the critical vulnerabilities that have been documented on the platform in the last two years." Shouts were heard from within Eric's basement as everyone tried to answer. "There was none! It's a trick question!" "No, no, there was one... what was it?" "The fake one? Does the OpenSSH hash salting problem they had count?"

The sound of a buzzer interrupted the discussion. One of the contestants had an answer. It was the security expert. "What is the DNS Bind cache poisoning vulnerability?" he asked. Answers in the game had to be formulated as questions.

"Judges?" replied the host, looking off to his side.

Following a brief pause, the host looked back at the contestant.

"No, I'm sorry, that's not among them."

The other contestant buzzed in. It was the other student, a young Asian wearing a suit. "What is the lprm exploit?" he said.

"That is correct," announced the host.

As the student had the correct answer, he was next to choose the category of the next question. He chose *Famous Books*.

"The R in K&R is the father of the C Programming language," the host began by saying. "The two also wrote the bible on the matter, often referred to by computer science teachers and students alike as the 'white book.' What does K&R stand for?"

"Kernighan and Ritchie," voiced Eric, before taking a sip out of his beer.

A buzzer went off. "Who is Kerry and Ritchie," sputtered the Asian contestant.

"No, I'm sorry," replied the host.

"Who is Kendell and Ritchie?" said the security expert.

"That isn't it either." the host said.

There was a pause. The host finally said "The answer was Kernighan and Ritchie."

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The evening wore on. The shows were still playing on the wall in the background, but the volume had been reduced to such a point that it was no longer audible. The beer flowed freely, and the evidence of its use littered the floor. The youngsters, having lost all concept of the noise level of their own voices, were speaking with great excitement on all subject matters. Those that weren't actively engaging in the discussions were transfixed by the glow of their laptops. Eric was going off speaking about the hidden wonders of JavaScript to Kerstin.

Dave, meanwhile, was off in his own tangent. "You know how there's six degrees of separation? Well with the active hacking/phreaking community it's like there's two degrees of separation – we all know pretty much everyone, and if we don't know them, then we know someone who does."

Pat and Seth sat by his side. Pat said, "You think so? I don't know. I don't know anyone from the Computer Chaos Club. Or anyone that knows them."

Dave quickly replied, "Okay but that's like Europe. Think of this continent though. We kinda know almost everyone - you know what I mean? I'm sure its like that in the demo scene too. Or the open source community."

"Yeah, I guess," Pat answered.

Greg came by Dave, Seth and Pat. "We're going outside for a bit of 420," Greg said, "want to join?"

"Yeah sure. Guys?" Seth replied, looking to Kerstin and Eric,

"I don't smoke marijuana, but I will go out with you guys," retorted Kerstin. Eric was already putting on a jacket to go outside.

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The guys were out on the back deck of Eric's house. Muffled music was emanating from within the house. A lone porch light lit up the scene. Seth, Eric and Dave were huddled together in the cool night, smoking a joint.

The trio were passing the joint around. Dave took a deep puff, and passed the smoke to Seth. Seth breathed out a bit, and took a deep breath from the joint. He was already buzzed from the beer, it was doubtful that the weed could do anything more. Yet it did. He took another puff before passing it on to his right. He coughed a bit.

Seth, beer in hand, walked off to where Gabriel and Kerstin were talking. The two were leaning over the wooden railing of the porch.

Seeing Seth arrive, Gabriel said "Kerstin was just telling me why she came to Ottawa U."

"So anyways," Kerstin continued by saying, "their IT department got all crazy and started to blame me for everything that went wrong with their network. Greater latency? They were saying I was causing it. Some Windows machine got infected? They'd blame me for it too. It was so stupid. They were telling me that they were going to expel me. They called the police."

Seth was blinking his eyes, trying to maintain his focus. Kerstin drank from her beer and went on, "My dad is a diplomat here. He got me to transfer out of the university in Berlin and worked hard so that I could start here."

"So what's with the deal of you skipping your b-day party?" asked Seth.

The three were now resting their shoulders over the railing. Kerstin looked towards Seth. "I love my dad. I hate his Canadian wife. No offense."

"Shit," responded Seth, grabbing another swig from his beer.

"So Kerstin, does that mean you can root a box then?" The voice came from from Jinks, who had just installed himself on the railing as well.

"Whoa. I didn't even see you there," said Gabriel, looking over his shoulder.

"What kind of question is that?" asked Seth.

Playfully, Kerstin replied, "What, are you saying I couldn't?"

"No, no," retracted Seth.

"Are you saying girls can't hack?" continued Kerstin, with a big smile.

"Would you like me to be saying that?" returned Seth, with an equally large grin.

"Is that a challenge?" replied Kerstin, taking another drink from her beer.

"It could be if you wanted it to be," toyed Seth.

"Fine. Name your terms," she returned. She was enjoying this.

"If I win, we go on a date."

Still smiling, Kerstin said "Two problems with that. One – it's kind of creepy. Two – I'm not a whore."

Hurt, but still donning a cheery voice, Seth replied, "Okay, name your terms there."

"If I win -"

This sentence fragment was the last thing that Seth would remember hearing that night. He slipped out of consciousness, and into the black hole of alcohol over consumption.

SIX

The Challenge

Seth awoke into consciousness. It was day, and he was sitting cross-legged on the corner of a busy street intersection. He had no idea where he was. Thankfully, he wasn't feeling any after effects from the alcohol. Glancing at his watch, Seth saw that it was just after eight o'clock.

He checked the pocket in his pants for his phone. It was there, but his bus pass was not. He searched his other pockets. Everything was there, except for his bus pass. The money in his wallet was also curiously absent.

Seth grabbed the phone. There were three missed calls. He called up Gabriel.

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Gabriel was on the carpet floor of Eric's place, in a deep snooze. The phone in his shirt pocket started to vibrate and glow through the cloth as it rang.

"He..llo?" answered Gabriel, in a tired voice.

"Gab, what happened last night?" returned Seth who was by this point fully awake.

"Spiked drinks," Gabriel retorted. "Oh, and you and Kerstin are doing a competition of sorts."

"For real?" came Seth's reply.

"Yea. What time is it?" asked Gabriel.

"8:12 AM"

“Call me later and we’ll talk about it.”

Gabriel did not wait for Seth's reply. He fumbled his fingers around his phone and shut it. Seth meanwhile looked all around him. He truly had no idea of where he was. He started walking down the main road, hoping to see some sign of something that would help him to place himself.

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Seth, Gabriel, Kerstin and Eric sat outside, around the small table of a student-run coffee shop near campus. It was a beautiful Sunday afternoon. The sky was a clear blue, and the unusually warm weather was punctuated with a refreshing breeze.

“Are you guys still in?” asked Gabriel to both Seth and Kerstin.

“Yes,” replied Kerstin.

Looking at Kerstin, Seth's reply followed, “Yeah, yeah.”

“So here's the deal,” Eric began saying. “You each will perform some kind of technically challenging social feat. The winner will get bragging rights, but as you so enthusiastically agreed to last night Seth, the loser will have to wear a dress for a day. A school day.”

“Did I really agree to this?” asked Seth.

“Yep,” was the cacophonous reply from the others.

“That's not particularly fair is it?” Seth retorted. “Her being a girl and all.”

Gabriel was the one to speak. “You chose the terms Seth, not us. You can still back out if you want.”

“No, its all right. I'll do it,” replied Seth, unconvinced.

“Awesome,” Gabriel said, “Eric and I will be the judges.”

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Seth was standing on the grass by a parking lot of the *Lawmart Megastore*, holding his open laptop on his arm. The massive building was home to everything from everyday housewares, to groceries and electronics. Kerstin and Eric stood beside him. Gabriel was inside the store, pretending to shop. He sent a message to Seth's cellphone. "Ready," it said.

It was time to execute the plan. Seth used his laptop to connect to a local unprotected wireless router. This gave him access to the Internet from his position in the parking lot. He then launched a program that gave him access to the telephone network via the Internet, allowing him to make calls from his laptop. The calls were not free, he paid for the service using a prepaid credit card he had purchased at a convenience store. However, this meant that he was able to place calls with complete anonymity.

Seth looked up the phone number for another *Lawmart* store on an online directory, and called it up. He was greeted with a recording, "Welcome to Lawmart Megastore." There was a pause. "For cookware, please press one. For electronics, please press two. For hardware please press three."

Seth pressed the three key on his laptop. A multi-frequency tone was heard over his speakers, followed by ring tones.

"Hardware," came the reply from the other end of the line.

"Hey – I'm James with electronics?" said Seth.

"Yeah, whats up James," replied the voice.

"Well uh – you see I gotta make an announcement over the intercom about a sale. Manager's not here though – do you know what it is we have to press to get on the PA?"

"Star four seven," answered the voice.

"Thanks."

With that, Seth hung up. He then looked up the number for the store on front of him. He called it up on his laptop. Upon hearing the recording, he pressed the star four seven keys. There was a click. He was now on the air.

Seth began to speak into the microphone built into his computer. With a particularly artificial cheery voice, he said “To all shoppers in store at this time, listen up! We have Mango portable media players to give away to the first four customers that reach Isle 5! These players are valued at over \$400, so get down there now! No strings attached!”

Meanwhile, Gabriel was in isle five. It was in the grocery part of the store, and he was glancing at the dairy products that line the refrigerated racks. Seth's announcement had just been aired on the intercom. Gabriel stood up, and looked at either end of the desolate isle.

The faint ruckus of clanking shopping carts could be heard. It was getting louder. Much, much louder.

Back outside the store, Seth received a second message from Gabriel on his cellular phone. “Success!” Kerstin smirked.

“A nice prank, but overdone,” she said.



Seth was running down a sidewalk in the concrete jungle of car shops and laundromats. It was Kerstin's turn, and he didn't want to miss it. She had told him and the others to meet that evening at a small pizzeria in the west part of town. By this point, he was almost there. He could see the sign of the pizza place glowing in the distance.

Seth almost stumbled as he entered the restaurant. It was a small joint, with a single long table manned with bar seats facing the large windows. Facing opposite was the serving counter, with a single cash register. The place didn't look particularly clean, or popular.

Seth found Kerstin waiting inside with both Gabriel and Eric. She was wearing an orange-coloured reflective jacket, akin to that worn by construction workers.

"Sorry guys," Seth said, still hyperventilating. "I took the wrong bus."

"It's okay," Kerstin replied. "We just got here five minutes ago. Here, take this."

Kerstin pulled a blank clipboard out of her bag, and passed it to Seth. He stared at it.

"You'll see," she said, as if to appease his curiosity. Looking at the other two, she proclaimed, "Okay, well, let's go."

They walked out the front door and onto the sidewalk of the adjacent roadway. The road was a major artery of the city, feeding the east-west line. It was also usually very busy, although on this Sunday evening it was all but dead. The group walked down the sidewalk for a bit, chatting, before Kerstin went towards the road and stopped.

She was standing by a large mobile electronic construction sign, the type that informs oncoming traffic of temporary lane closures and construction work. She looked around.

"We're too many," she said. Pointing to Gabriel and Eric, she said, "Can you guys go over there by the post? I'll work here with Seth."

"Yeah no probs," Eric returned.

The two walked off, leaving Kerstin and Seth together. He now understood the purpose of the clipboard and reflective jacket - they were both a ruse to fake a sense of legitimacy. He smiled at this realization. He looked towards her, as she prepared her gear. She truly was the most incredible girl he'd ever met, he thought.

Kerstin unfolded a small leather satchel. Within it was a collection of neatly organized thin metal instruments. Seth recognized them as the standard tools in a beginner's lock picking kit. Pulling out two small metal tools, she started to attack the padlock that kept the large orange control box underneath the electronic display shut.

"I'm having trouble with the lock," said Kerstin, after minutes of unsuccessful fidgeting. Seth looked around, and could see both Eric and Gabriel off talking in the distance.

"No problem," he said, turning back to Kerstin. He moved towards her, and grabbed the tensor from her left hand. The tensor was a thin L-shaped piece of metal that was crucial in the process of lock picking. She then passed him the other small metal tool that she had been handling. This one was a little thinner than the tensor, and had a thin curved tip. Using the two in concert, he was able to produce within thirty seconds the definitive click of an unlocked padlock.

"Thanks," she returned.

"Don't worry. As far as I'm concerned, you opened that," Seth replied.

Kerstin grabbed the manual from inside the control box. After reading for a few seconds, she grabbed the antiquated keyboard that was stored to its side and plugged it in. She started to type.

From a distance, Eric and Gabriel saw the sign change from *'Road Work Ahead'* to *'All your road are belong to us.'* It was a play on words from a popular expression that was well known in the geek culture. While such an expression would not register with most drivers, it was sure to garner a grin from those well versed in the subculture.

Seth and Kerstin both walked back to Eric and Gabriel.

"Not bad, not bad," said Gabriel.

"I like it," said Eric.



The next day, the four pranksters collected between classes on a bench by the university library. Seth was on his laptop, holding the one side of some headphones to his ear. He pressed a few keystrokes.

"Okay," he said, "it's almost ready."

He unplugged the headphones from the machine, and stared at the motionless screen. All they could see was that Seth was again using his laptop as a telephone.

"What is it we're waiting for?" asked Gabriel.

"You'll see," was the cool reply.

The group stared at the screen. Suddenly, a double beep was heard from the computer speakers. Seth placed a single finger to his lips, motioning the others to keep quiet. Speaking in a style akin to that heard on a recording, he began to talk.

"Hi and welcome to Radeon theaters. For movie listings, please press one. For -"

A single tone from the other end of the line interrupted Seth.

"I'm sorry, but the tone did not register. Please press harder," he replied. After a brief pause, the same short multifrequency tone was renewed from the other end. "No, press *harder*," emphasized Seth.

The tone was heard again, but this time it lasted a few seconds. Seth raised his voice.

"PRESS HARDER DAMNIT!"

The caller replied with a six second long beep. Seth resumed his calm demeanor. "Thank you. Unfortunately, all our recordings are busy at the moment playing the theater times to other customers. Please hang up and call back later."

A double beep followed. The caller had hung up. Looking back at the others, Seth explained. "I took over the phone system for the Radeon theater out in the east end."

"How?" asked Eric.

"I just called up the telephone company and pretended to be the manager. It was easy. I ordered call forwarding on their line and got them to reroute all the calls they would normally get to this friendly conference number," replied Seth.

Another double beep emanated from the laptop's speakers. Someone else had called the theater. The others grinned in anticipation.

Instead, of repeating the seemingly pre-recorded introduction, Seth spoke naturally.

"Hello, Radeon Theaters."

There was no reply. Seth spoke again.

"Hello?" he said.

"Oh hi there. I was expecting a recording," came the middle-aged female voice on the other end.

"Yeah, the system is down for today. Is there anything we can help you with?"

"Well, I just wanted the times for your movies today?" replied the lady.

"Sure thing. We have *Bush Hour*, playing at 4:45, 6:30, and 8:15. Then there's *Free My Willy*, playing at 5:15, 7:10, and 9:20. There's also *Saving Ryan's Privates*, playing at 5:00, 6:45, and 8:30. *Good Will Hunting* is on as well."

"Got anything with kids?"

"Do we ever!" interjected Eric.

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It wouldn't be until two weeks later that Seth and the others would convene once more to witness Kerstin's much anticipated grand finale. They were told to meet outside of the *Nekōtel* building downtown, an average fourteen story tall office tower that nary stood out in the high-rise laden surroundings.

Seth waited by the night sky with Gabriel. Eric walked up.

"Hey guys! Seen Kerstin?" Eric asked.

"Nope," replied Seth.

They waited. Seth exhaled slowly against his hand to see if he could produce any condensation. Finally, Kerstin came out with a business-like strut from the building's front entrance, brandishing the clipboard.

"Hey you! So where's this big finale?" jested Seth.

"Oh, you'll see," she returned, smiling. "Follow me."

The men followed her to the other side of the building. They crossed the street, and stopped facing the back of the office tower.

“Look up,” she said.

The group looked up. Eric was the first to speak out.

“Oh my god.”

“That’s frickin’ epic,” said Gabriel.

Kerstin had transformed the outside of the building into a large digital billboard. The office lights had been turned on and off to produce the shape of a giant heart. The group stared on, in awe.

Seth looked back down at the prodigious girl.

“How did you...”

Kerstin did not immediately reply, but instead smiled back at Seth in a manner he had never really seen her do. The bright office lights shone off of her cheek.

“It took a week to get to this point,” she said, looking back up.

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The next day, the group met on the roof of one of the city’s many downtown buildings. They were on a well groomed terrace located at the top of a large unassuming shopping center. Despite it being a public venue, few others ever seemed to venture up here.

From his vantage point, Seth could see down to the tattoo parlors and smoke shops that populated the bottom. He turned back to face Kerstin, Eric, and Gabriel. Dave and Pat had also decided to join along for the event.

Eric was by his open laptop. He clicked a few buttons, and the machine started to produce the steady sound of a drum roll. Eric held up his hand as if it held the name of the winners.

“And the winner is...” he began.

The pause in his speech was sustained by the persevering sound of the drums. The percussions concluded with a loud reverberating clash of the cymbals. Eric took a deep breath.

“Neither of you. Or both of you if you want to think it like that. Its a tie.”

Kerstin was the first to speak out, “Oh come on, you guys suck!”

“Now, now,” Eric replied, “you guys were both good. Kerstin with the Nekōtel stunt and Seth with the accumulating of 2,530 university login credentials and counting.”

“So you're just going to leave us hanging?” asked Seth.

“Do you *want* to wear a skirt?” retorted Eric.

“Fair enough. Well, do you guys *want* to go get hammered?” replied Seth. The faces nodded in approval.

“Sounds good to me,” said Gabriel.

The group packed up their bags and walked back inside the building.

SEVEN

Rice Tea

It was a beautiful afternoon, and Seth was in the backyard of his townhouse, enjoying a beer as he poured over his school notes. His laptop was open on the table to his side.

His focus on the ink-laden papers was interrupted by the squeaking of the house's opening screen door. Seth's roommate walked out, hamburger patties in hand.

"I'm going to cook some burgers. Want anything on the barbecue?"

"Yeah sure. I'm going to go get some of my dogs."

Seth put his beer and notebook down and disappeared in the house. He came back out with two large wieners held in a paper towel. He lay them to the side of the soot-stained barbecue.

"So how's university going for you now?" asked Seth.

"Same as usual. Raping me up the ass," replied the roommate.

Seth grabbed his beer and took down a gulp. "Heh – same here," he said. "Seen your exam schedule yet?"

"No, didn't even know it was out," said the roommate, as he lay his hand over top of the barbecue's burner to ensure that it was indeed on.

"Yeah, they put it out two days ago," informed Seth.

The sound of three harmonious bells emanated from Seth's laptop. Seth had setup his instant messaging program to produce such a soft audible alert whenever Kerstin logged on to the communication network. He walked towards the laptop.

"Just a sec," he told his roommate.



Kerstin rested back in her room's computer chair, scrutinizing the ceiling's imperfections as her leg rocked her seat from side to side. Her eyes made no contact with the blank word processor document that adorned her monitor.

Her computer produced a chime, and a new window opened on her monitor. It was Seth. He had sent her an instant message.

"Hey K," he wrote.

Kerstin looked back at the monitor, and typed in a message back.

"Hey"

"Are you a big fan of rice tea?"

"Rice tea?" she returned.

"We're all meeting at the *Tea Foundry* tomorrow for a bit of wireless mischief. You in?"

"Sure."

Seth smiled and looked back at his roommate.

"Looks like I'm seeing her again tomorrow!"



It was a cloudy day, and the threat of rain loomed above as Seth navigated down the city's large open market. Produce sellers and ethnic food stalls lined the streets. Finally, he reached the small joint that was the *Tea Foundry*. It was one of many such outlets in the large barn-like complex that was at the heart of the market.

Kerstin and Gabriel were waiting inside, enjoying some of the *Foundry's* imported specialties. Seth spotted them and walked towards them.

"Hey guys! Been waiting long?" he asked as he sat down.

"No, no. We just got here. Eric can't make it today, he had to cover for someone at work," Gabriel replied.

"That's too bad," Seth returned. Looking at Kerstin, he said, "So did Gabriel tell you what we were doing today?"

"Not yet, no," she replied.

Seth took out the laptop from his bag and opened its cover. He pressed the power button, and returned his attention to Kerstin.

"Okay, well here's the deal. We're right now in lunch-time central. This is where all the government people take their breaks, chat it up with buddies, whatever. There's also more laptops here per square kilometer than anywhere else in the city. As such, wireless Internet here is a must. Now guess how many wireless access points are within range."

Kerstin shrugged. With a big grin, Seth raised two fingers.

"Two?" she stated.

"Two," Seth confirmed.

"Actually, there's about twenty access points within range here. But they're all either encrypted or require you to pay something ridiculous," Gabriel clarified.

Seth continued. "So all these people that are out here during their lunch hour can only connect to these two routers if they want free Internet access. What we then do is that we connect to one of these, and perform a little ARP cache poisoning. You know what that is?"

"It's for man in the middle attacks on networks," Kerstin said.

"Have you done this before?" asked Gabriel.

"I tried it once on a Windows box, but couldn't get it to work," she answered.

"You'll see its easy," Gabriel said. "What we do is that we use that attack vector to essentially reroute all of the traffic here through our laptops. And that's where we have a bit of fun."

Seth picked up for Gabriel. "Because these people have their traffic rerouted through us, we can intercept and manipulate their data packets. Mess with their Internet connection a bit."

Seth looked at his laptop. "So I have a guy here for instance." He swiveled the computer on the table so that it faced her. Raw data from someone's connection to the router was being displayed on his screen. As you can see, he's surfing right now on an online store. Nothing too special, but if we wanted, we could do anything from replace the pictures on the websites he visits, to spoof SSL certificates and nab his credit card info."

"But we don't touch credit cards, or anything like that," clarified Gabriel.

"Speaking of which, I think I have a real contender here," said Gabriel, as he looked at his own laptop screen. "This guy is surfing the profiles of fourteen year old girls on a photo album website."

"Oh-ho. Sleazy. I like it," replied Seth, grinning.

"I have the perfect idea for this one." Gabriel typed adamantly at his keyboard. "I'm going to write a little filter so that the next time he visits a page, it gives him a little surprise."

Kerstin turned to Seth. "You guys are unbelievable."

"I know," replied Seth. "Isn't it great?"

"Awful. Absolutely awful. Which packages are you using to do this?" Kerstin asked, smiling. Seth moved towards her and her idle notebook computer.

"Here, I'll show you," he said.

The sound of a woman in mid orgasmic groan erupted from the patio of the Indian food restaurant to their side. Seth looked out, and saw a man quickly clasp his laptop shut. It ceased the loud embarrassing sound. Gabriel was laughing.

"Your doing I presume?" Seth asked.

"I just couldn't resist. The guy was looking up pics of fifteen year olds. I mean c'mon!"

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The trio worked at their laptops for the next hour. Seth helped Kerstin get set up, and soon she too was manipulating the network connections. Gabriel meanwhile was enjoying tormenting a man who was chatting with his girlfriend. Reading the man's emails revealed that he had in fact many, many, other girlfriends that this current love interest didn't know about. Gabriel couldn't help but smile as he replaced the words in the adulterer's instant messages with his own. No matter what the confused man wrote, Gabriel would only replace it with snippets of the emails that the man had sent to his other victims. Pure carnage unfolded on his screen.

"Oh this is neat," Kerstin said, looking at her laptop. "Someone is accessing a computer via SSH."

SSH was short for *Secure Shell*, an encrypted means of communication that allowed for users to log into computers remotely. With it, a system administrator could directly access a faltering work server from home, and attempt to fix it. Seth often used it to check up on his own home server from school.

"Let's see what's in it," Seth said.

"But it's encrypted," she replied.

"Yeah, that's true. But there's a way to intercept the encryption keys. Sending our own public keys instead of the server's to the client or something," responded Seth.

"Let's do it," Kerstin said.

Seth smiled. "I like your thinking. I got some guys I can ask around for some help."

"Alright," Kerstin responded, "I'll see if I can find anything online."

While Kerstin and Seth worked on finding out how to usurp the integrity of the secure communication, Gabriel had moved on to a new victim. This new target was surfing websites that spouted hate messages against the gay community. Gabriel proceeded to rectify the situation by replacing all the images on the websites that the homophobic man visited with pictures of the most perverted gay porn he could find. Right before the bigot so abruptly disconnected from the network, Gabriel could of sworn he heard a yelp from outside.

Kerstin sat back, stretching her arms.

"I found how to do it," she said, in the middle of a yawn.

"Great," replied Seth. He moved his seat to her side.

"I'm about to do it now. I'm sending the guy a bunch of reset packets so that he's forced to do the exchange of encryption keys."

Kerstin typed a few keystrokes on her computer, and stopped. She just stared at the screen, along side Seth.

"His connection was reset," she said. "Now we wait. He might not reinitialize the session. If he doesn't, we won't be able to get anything."

Kerstin had three terminal windows open on her screen, each monitoring a different aspect of her attack. The screen stood idle. The duo looked on intently to the motionless monitor. Then suddenly, one of the terminal windows started to update with a flurry of activity. The other windows followed.

"He went for it!" she exclaimed. "I'm dumping the output into a file."

They had managed to usurp the encryption. Yet, as the moments passed, something seemed to be amiss.

"He doesn't appear to be doing anything with the connection," said Kerstin.

"This is surprisingly boring," noted Seth, his face leaning on his palm as he looked at the static image of the monitor.

"Yes it is. How about we just leave the capture running and move on," she proposed.

"Sounds good," replied Seth, getting up and shaking his blood-deprived legs.

The pranksters spent a few more hours at the *Tea Foundry*. While Gabriel continued to pick on the bigoted, Seth and Kerstin shifted to work on a programming assignment for school. Finally, with the sun beginning to set down, the three decided to call it a night.



It was the evening, and Seth was back in his room, reading a book on Geospatial Information Systems for a course he was taking in university. The cellphone on the table on his bedside began to vibrate and ring.

Seth leaned over and grabbed it. Gabriel was calling.

"Yo Gab, what's up?"

"VNC into my box."

VNC was short for *Virtual Network Computing*. It allowed Seth to log into Gabriel's computer, and see Gabriel's desktop as if he was at his place. The contents of Gabriel's monitor were sent directly over the Internet to Seth's computer.

"Now dude? I've got a hundred pages to read for class tomorrow."

"Remember that SSH traffic you intercepted today with Kerstin?" Gabriel asked.

"Yeah?" replied Seth.

"Well she sent it to me because she had something going on tonight. I went through it. Right after you guys stopped paying attention to it things got a whole lot interesting."

"Okay, hold on, I'm gonna log in."

Seth moved to his computer nearby. It was already on. He started a program, and within seconds was logged into Gabriel's machine. The contents of Gabriel's monitor filled his own screen.

"Okay I'm in," Seth said.

"Yeah, I can see that," responded Gabriel. "Okay, look at this. What does this look like to you?"

Gabriel had opened the contents of the SSH session that had been captured earlier that day. It was pages and pages of text, but Gabriel had one particular part highlighted.

"IRC conver- ... no... commands to a botnet?" wondered Seth.

"I did a bit of research online. These commands follow the syntax of the Météo botnet. He also sent these computers some kind of executable. One of the commands made them download it from some compromised corporate server. I grabbed it too and sent it off to Eric. He's good with that stuff."

Botnets were the scourge of the Internet. Gone were the days where viruses and worm simply infected machines to delete documents and cause chaos. Now they covertly took control of their vulnerable hosts. These infected machines, or *bots*, were then at the mercy of a central authority. These malicious figures often used these machines as instruments with which to send spam, though they could also be used to receive stolen credit card information or attack legitimate websites. The more computers were infected, the more powerful a botnet became.

"Shit on me. How many clients are in this one?" asked Seth.

"I counted seventy-five infected machines," replied Gabriel.

"So it's a small botnet."

"That's where it gets even more interesting. Check the name of the bots. I'm highlighting them for you now," said Gabriel.

"test001, test002... what the? This is a test setup or something?" wondered Seth.

"Yeah, I bet you anything that the guy has a larger botnet somewhere and that this is to test the executable. I think it's an update file," Gabriel mused.

"We should do a write up on it. A basic overview of what happened. Put it on our *Digital Losers* website."

"Solid idea," Gabriel said. "Let's meet tomorrow and see what else we can dig up about this."

"For sure. Isn't this insane?"

"No kidding. I'll call Eric up for tomorrow."

"Sounds good. Good night," Seth replied.

"Night," concluded Gabriel.

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Seth lay in bed. According to his alarm clock, it was already past 2AM. Only the glow from his laptop screen illuminated the room. Seth looked on to the portable computer at his side, and at the article he had just written for their website. He had titled it '*The Botnet Chronicles*'. He clasped the device shut, and closed his eyes.

EIGHT

Chaos

It