**Solution 1**

**Assignment Sheet 2 (P 2.2)**

**“Anti-Semitic Cyber Attack Hits Universities across Germany**”

**Tuesday, April 26, 2016 at 10:00am** Right in time for Passover as tiny Jewish student communities across Germany were preparing for the Jewish holiday, several University campuses all over the country were hit by a major anti-Semitic cyber-attack. Many colleges confirmed that their network printers and photo-copy machines had been spontaneously printing racist and anti-Semitic flyers against Jews. According to reports the affected academic institution include Universities in Hamburg, **Bonn**, Münster, Lüneburg, Bremen, Tübingen und Erlangen-Nürnberg. Meanwhile, the security breach has reportedly been closed.

The University of Tübingen described the attack as happening, “**as if by magic**.” The university spokesman Karl Rijkhoek told media that the attack happened on all the printers at the same time and that the anti-Semitic messages printed over 190 times. At other universities various numbers of printers were affected by the hackers.

Departments affected at the University of Bonn were Theology and the Institute for Asian Studies. At the Westphalia Wilhelms-University Münster, the number of hacked printers was in the double digits. A spokesperson of that university said printers are less secured than other parts of the network system and that’s why they are more vulnerable to hackers.

**How attack was happen?** Most of the investigations concluded by police or spokesman person of the victim universities states that the printers were connected to the internet but they were not password protected so that bug makes them easy target for hackers. Some sources also says that attacks was a **“configuration error**” and the printer’s action had been caused via the internet from a foreign IP addresses and interrupted printers and photocopy machines to print racism messages because they were not password protected.

**What/who is/was affected? What/who is/was affected?**

Mainly the universities were affected and the direct victims of attack were the administration, students, Professors and somehow the attack also had an external effect on society because the main cause of the attack was to create racism in society and to increase hates in the mind of Jewish people.

**Are you affected (if so, how did you react)?**

Somehow Yes, But I could only condemn these kind of attacks and will try to secure our network as much as I can in future.

**May the university be affected?**

Yes, it was a direct attack on the university so it was affected in my opinion.

**Which sources of information have you chosen and what do you think about the quality of the sources?**

We have chosen most links from local newspapers because this was not an international kind of attack so the sources are taken mainly from German or local Bonn newspapers so I cannot say much about their worth but I have confirmed this information from multiple online websites so to be honest I believe on it.

[**http://legalinsurrection.com/2016/04/anti-semitic-cyber-attack-hits-universities-across-germany/**](http://legalinsurrection.com/2016/04/anti-semitic-cyber-attack-hits-universities-across-germany/)

[**http://www.breitbart.com/london/2016/04/22/german-university-printers-flooded-anti-semitic-messages/**](http://www.breitbart.com/london/2016/04/22/german-university-printers-flooded-anti-semitic-messages/)

[**https://twitter.com/BenWeinthal/status/725468592200900608**](https://twitter.com/BenWeinthal/status/725468592200900608)

[**http://www.antisemitismwatch.com/2016/04/22/mimicking-us-case-german-university-printers-hacked-churn-out-anti-semitic-flyers/**](http://www.antisemitismwatch.com/2016/04/22/mimicking-us-case-german-university-printers-hacked-churn-out-anti-semitic-flyers/)

[**http://myinforms.com/en-us/a/31625500-anti-semitic-cyber-attack-hits-universities-across-germany/**](http://myinforms.com/en-us/a/31625500-anti-semitic-cyber-attack-hits-universities-across-germany/)

**Second Solution**

**Assignment Sheet 2 (P 2.2)**

**Janet down: Computer network at UK (United Kingdom) universities continues to face problems after DDoS cyber-attack**

On **7 December 2015** Janet, the computer network that supports academic services at universities around the country, is facing problems due to a Distributed Denial of Service cyber-attack.

Janet is the network responsible for running the country's .ac.uk and .gov.uk domains, so the attack has resulted in many universities, colleges and some councils seeing their websites go down or slow significantly. Janet also responsible for the **Eduroam Wi-Fi** network that is used by many universities across UK.

**How did attack happen?**

A DDoS attack is when an online service is brought down or interrupted by being overwhelmed by traffic from multiple sources. Hackers can perform a DDoS attack by creating 'bot' computers by infecting thousands of home computers with malware, and instructing them to all attack a certain site at once, bringing it down. DDoS attacks typically last for around 24 hours, but the current attack on Janet has now been going on for much longer than that. It was this kind of attack that was used on Talk Talk in October, bringing the service down and allowing hackers to steal the information of tens of thousands of customers.

**What/who is/was affected? What/who is/was affected?**

Mainly the universities were affected and the direct victims of attack were the administration, students and somehow the professors.Exernal factors could be anyone who has direct or indirect involvement in university related activities like Higher Education Department etc.

**Are you affected (if so, how did you react)?**

No.

**May the university be affected?**

Universities all over the UK were affected but people who were working with these universities and using their services from outside the UK (United Kingdom) also affected.

**Which sources of information have you chosen and what do you think about the quality of the sources?**

I have chosen most links from very reliable resources like BBC and also read about these attacks on different Universities websites and seen some videos about them so I think that these given information could be reliable.

<http://www.independent.co.uk/life-style/gadgets-and-tech/news/janet-uk-university-cyber-attack-internet-down-a6765056.html>

<http://www.telegraph.co.uk/technology/internet-security/12038962/Universities-across-the-country-lose-internet-connections-following-cyber-attack.html>

<http://www.bbc.com/news/education-35043243>

<https://www.timeshighereducation.com/news/cyber-attack-janet-network-disrupts-university-internet-connections>

<http://www.theregister.co.uk/2015/12/08/uk_research_network_janet_ddos/>

<http://www.telegraph.co.uk/technology/internet-security/12038962/Universities-across-the-country-lose-internet-connections-following-cyber-attack.html>