# **4 Sub-Project – Packages 4, 5 and 6**

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In this chapter I will discuss the following topics:

* Product aim
* Research
* Software
* Job role
* Product overview
* Costing

## **4.1 Product aim**

The aim of this product is to deliver 3 packages full of tools with each accomplishing a specific purpose in terms of anti-forensics.

The tools/software should be able to help a user in a range of different areas for example, package 4 should provide Hardware software for both monitoring and debugging, as well as network monitoring. Package 5 should provide a wide range of tool to help with network forensics.

These tools should be represented in a way that users will find it easy to access them without technical skills or knowledge.

Package 6 should be created once this entire product is finished as well as the companion developer who is currently working on the first 3 packages, so we can add all the programs together to finalize my package 6.

The software should also be checked / tested by the developers in charge to make sure all programs can be installed from an external device e.g. USB, external hard drive, to ensure users can do this on their own machines, or others. The testing should also be done to a degree to make sure services of the software can be completed, so the users are given what they are promised and not some software which breaks halfway through.

## **4.2 Research**

### **4.2.1 Receiving program list**

Before I could start work on my area of the project I had to receive the preliminary list of programs which was created by another member of the project. This list contains all the programs which he found were relevant to the numerous packages.

Since I could not start work before I had received this list I went about seeing if I could help other developers instead of doing nothing, and coming up/ researching with potential add ones for the product, one such idea was to integrate the software pre booted on the external device used in this case USB so users can run program strait off of it, however this idea went nowhere.

Once I had this program list I started to do research on the programs e.g. checking download requirements and sources. This was to insure integrity for user’s computers as we want all buyers/users to be happy with the services provided by the product.

**4.2.2 Solving problems**

Once I started downloading and compiling the packages some problems arose such as not all the programs which were on the list could be downloaded, due to outdated or unsafe download links. When I came across this problem I would do independent research to find other suitable software for the packages. Adding onto this problem was the lack of programs in some of the packages, to resolve this I researched some more relevant software for the packages to add. With all the programs that I chose to add to the packages I made sure they were user friendly, one of the ways I did this was to check feedback from users of the software, I did not over a wide array of reviews to make sure I got a clear picture of the usefulness of the software before adding it into my list.

## **4.3 Software**

### **4.3.1 Original**

This is a list of all the packages as they were after extrapolating the corresponding areas from the tool list provided. As not all the programs provided from the tool list were useful to me.

Package 4 - Hardware monitor, Debug hardware, Network monitor

* Speed Fan
* N-Map
* Open hardware Monitor
* Process hacker
* Open-AudIT

Package 5 - Wireshark, Network security assessment tool, Network monitor, Packet sniffer

* N-Map
* Wireshark
* Aircrack

Package 6 – All program/packages

* This package is an accumulation of packages 1-5, as I am only in charge of packages 4-6, I had to wait until another developer finished with packages 1-3 so I could add all the software from the packages together into package 6.

### **4.3.2 Update after problems**

This is a list of the programs in packages after I solved the problems mentioned in research e.g. unsupported programs and lack of programs in packages;

Package 4 - Hardware monitor, Debug hardware, Network monitor

* Speed Fan
* N-Map
* Open hardware Monitor
* Process hacker
* WinAudit
* Hardware Monitor
* Open-AudIT

Package 5 - Wireshark, Network security assessment tool, Network monitor, Packet sniffer

* N-Map
* Wireshark
* Aircrack
* Microsoft baseline Security Analyser
* Kismet
* Nessus
* Network miner

Package 6 – All program/packages

* This package is an accumulation of packages 1-5, as I am only in charge of packages 4-6, I had to wait until another developer finished with packages 1-3 so I could add all the software from the packages together into package 6.

As you could see there is a better range of software for users compared to before my own research, these are just a list of the current programs in the packages, in the future if better software comes out it would mean having to update and resort out the software to keep up with modern change. Another change which may be added in the future is for more operating system functionality at the moment this is centred for Windows OS users. There is also a seventh package available which is fully customisable to the end users’ needs.

## **4.4 Job role**

After all the management positions were appointed I was left with a developer/worker role. I was put in charge of a sub project to be completed by the end of the project. This job role rather suited me since I work well with others, and there were more experienced management members in are group. Not too say I would turn it down but in this case I could not come up with a good enough idea to follow through with, so being a developer for somebody else’s project is perfect.

Being a developer helps me improve my skills in researching online sources and checking safety of those online sources, since I am securing software for others to use there is more pressure on making sure the chosen software will not harm the user’s computer in any way.

I also tried to get active and work with the other developers with giving feedback on others products in hopes of helping them improve the overall standard of their product, such as with advertising I helped review the banners / billboards and pointed out some area which could be changed, with positioning of text, what text would be useful for customers to know.

Overall my product will offer users several useful, and safe, pieces of software ranging in both hardware and networking. And all of these programs will be given to the user in an easy to understand way.

## **4.5 Product overview**

The overall standard is 3 packages full of anti-forensics software. And for each package to suite a specific purpose.

Once this was completed I combine the packages I create with the other 3 created packages created by another developer to get all packages to create my final 6th package.

Before I handed any of the packages off to the developer in charge of writing instructions for the software to provide to users, I made sure the all the software also runs on my own machine. I did this by uninstalling any already existing software which I may have installed over the course of the project, then taking the packages which I had stored on an external source, one by one installing and making sure they install without any problems and ran some basic functions of the software e.g. scans, adding files, saving outputs etc.

There are some extra information which I need to be involved in after all of this is done, for one is the decision of pricing which need to be chosen among the group to be sure that it is fair for the customer. See Costing for the proper information.

Another task to be done as part of this product is the review of my part of the product, this is done through a screen cast which every member of the group must do that shows what they have done in the project. These are useful in displaying to the other members of the group what each has done and to see that everybody has done their jobs.

## **4.6 Costing**

### **4.6.1 Software**

All the software used in these packages were open source which means they were free to download, this means that the actual cost was nothing. This can be seen as good from a financial standpoint however from a business point it is very risky since where using free software there are many issues that need to be avoided. One such issue is making sure that the source code of every piece of software is available for everyone who buys are product.

If the business plan is not followed correctly we could lose money by being sued by the people whose software we are using.

It is important that I understand these issues because it is my job to download the software, the research manager should inform me of this to make sure that it doesn’t happen, luckily I was already aware of this case involving the use of open source software so I was able to avoid withholding data from the user.

### **4.6.2 Labour**

The main cost in this project would be the labour of downloading and doing the relevant research, also the time to compile the packages. Although you say it easy, in order to mass produce a product like this it may take a while for each one is done by only several developers.

Also not all the developers can help we producing the product on a mass scale since we still need to maintain the rest of the services we provide e.g. advertisement, social media. These are just the jobs that need constant monitoring so we don’t fall behind other competitors.

The other developers also must keep up with their own work, as just with any business we need to make sure we are giving them the best products e.g. can’t keep using the same software when there may be newer better services, this means when new product come out we will need to update the pre-existing packages, new instructions. This means at a good time there will be maybe 4 developers working to complete the products, by this I mean placing complete package (all 6) on respective storage devices, and at bad times on two people to try and keep up with buyers.

Every week a work sheet is filled in with the jobs we need to complete, on this is the hours we work to complete the task and how much money we will earn each hour, over the course of the project this is a lot of money. And different difficulty of task and positions in the company award different salaries.

We use these sheets to insure that work is being completed within time frames and that everybody get payed when there work is complete.

### **4.6.3 Packages**

After I had competed all of my packages I discussed with the group how much we will charge for each of them, there were many different ideas since the first 5 packages are all self-contained, however the 6th package is the combination of all five of the other packages, which means the only thing we knew for certain is that the 6th package will cost more than the others.

Once everything was sorted we finally made a decision that the first 3 package will cost a set amount as they are more rudimentary forensics tools e.g. recovery, key finders, cleaners etc...

The 4th and 5th packages had a more advanced depth of programs so we decided to price these packages a bit higher than the first 3.

The final 6th package has all of the programs which means as I stated before it will be higher than all the other packages.

The package prices at the moment stand as;

* Package 1 = £15
* Package 2 = £15
* Package 3 = £15
* Package 4 = £15
* Package 5 = £15
* Package 6 = £60
* Package 7 = £17.50 per package.