Name: Class:

Task 1

(a) Choose one of the following cloud storage providers, or another cloud storage provider that you use or are interested in.

* Dropbox
* Google Drive
* Microsoft OneDrive
* iDrive
* CertainSafe Digital Safety Deposit Box

(b) Chosen cloud storage provider:

For your chosen provider, what are the features the cloud storage offers businesses and individuals?

Task 2

Research the Internet of Things (IoT) in order to answer the following questions.

(a) What is the IoT?

(b) Why does it matter?

(c) Is it secure?

(d) How many IoT devices are there currently? What are the predictions for the future?

Task 3

The table below shows how traditionally software has been purchased, installed, maintained and supported. Complete the table to show how these processes happen for Software as a Service (SaaS).

|  |  |  |
| --- | --- | --- |
|  | **Traditional software** | **Software as a Service** |
| **Purchase** | Typically, a licence will be purchased which allows the organisation to use the software  The software itself will be downloaded or sent on a CD/DVD |  |
| **Installation** | New equipment such as servers / hard disks may need to be purchased before the software can be installed  An operating system will need to be purchased and installed  Any other software which the purchased software depends on to work will also need to be purchased and installed  The software is installed and configured  It may be that this process needs to be repeated across hundreds of personal computers in the organisation |  |
| **Maintenance and support** | An in-house IT technician will need to be employed, or a 3rd party paid for their ability to maintain the system  Support will need to be purchased via a 3rd party or employing someone |  |

Task 4

The table below contains a list of statements that apply to cloud service providers. For each one, tick if the statement is an advantage or disadvantage. The first row has been completed   
for you.

|  |  |  |
| --- | --- | --- |
|  | **Advantage** | **Disadvantage** |
| No need to purchase/own infrastructure | Checkmark |  |
| No cost for IT technicians |  |  |
| Users will require a reliable Internet connection to use |  |  |
| Users will require fast Internet connections to use the cloud service |  |  |
| Limited control of the infrastructure |  |  |
| Reduction in the management of upgrades when SaaS is used |  |  |
| Software is likely to be more reliable |  |  |
| Automatic version control / backups |  |  |
| Storage/computing capacities can grow/shrink depending on demand |  |  |
| On-going subscription costs |  |  |
| Cloud provider lock-in |  |  |

Task 5

‘Amazon Web Services (AWS) is the world’s most comprehensive and broadly adopted cloud platform, offering over 165 fully featured services from data centers globally. Millions of customers - including the fastest-growing startups, largest enterprises, and leading government agencies - trust AWS to power their infrastructure, become more agile, and lower costs.’

Source: <https://aws.amazon.com/what-is-aws/>

(a) Using the source above, and others, research some of the companies that use AWS.

(b) What do they use AWS for?