**The Internet**

**Secure Communication**

1. **Name the four principles of network security.**
   1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   2. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   3. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   4. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2. Complete the descriptions of these communication exploits:**



1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**compromises \_\_\_\_\_\_\_\_\_\_\_\_\_**

**fix with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**compromises \_\_\_\_\_\_\_\_\_\_\_\_\_**

**fix with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**compromises \_\_\_\_\_\_\_\_\_\_\_\_\_**

**fix with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**DNS:**

1. **How many separate queries are involved in resolving the following URLs?**
   1. [**www.google.com**](http://www.google.com) **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   2. [**www.drive.google.com**](http://www.drive.google.com) **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   3. [**www.personalblog.wordpress.com**](http://www.personalblog.wordpress.com) **\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **How many separate data transmissions were sent in order to resolve the URLs listed above?**
   1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   2. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   3. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Networking Definitions and Concepts:**

1. **What is a data packet? Why are they necessary for the internet?**

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**2. What is a protocol? Provide some examples.**

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