1. **Explain why the CPU Protection Rings enhance Windows security (at least one good paragraph each):**

*??*

1. **Explain the initial HTTPS conversation between your browser and the gmail.com server. How is the server digital certificate used to establish a secure connection between your browser and the gmail server?**

|  |  |
| --- | --- |
| **Client/Browser** | **Server/HTTPS Service** |
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1. **Explain how an S/MIME app (i.e. MS Outlook) would use your and your business partner digital certificates to encrypt the email message (confidentiality) and digitally sign the email (non-repudiation)?**

What does your S/MIME app do?

* ??

What does your business partner S/MIME app do?

* ??

1. **What is the difference between an IDS and an IPS? What are the risks of using an IPS?**
   * IDS = ??
   * IPS = ??
   * IPS risks = ??
2. **What is the difference between a stateless and a stateful firewall?** 
   * Stateless firewall = ??
   * Stateful firewall = ??