

COE 449: Network Security Engineering
HW 2 – Chapters 2, 4, 5
Posted: 3 November 2008 Due: 10 November 2008

- 1) Give a brief example of each of the 4 types of security policies?
 - 2) Give a concise scenario clarifying the 3 types of access control?
 - 3) In the Unix Data General System, why is the virus prevention region below the user region? Give a brief example that justifies your answer ?
 - 4) In the Unix Data General System, why is the Administrative region above the user region? Give a brief example that justifies your answer ?
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Consider the set of rights {read, write, execute, own}, subjects {p, q}, and objects {AA, BB}. Using the syntax in Section 2.3 of the book (similar to the 6 primitive commands as in lecture slides), write commands as specified below showing your updated ACM after running the command, start by assuming no ACM:

- 5) Build a new (empty) ACM with subjects alone.
- 6) Include the objects in the ACM.
- 7) Include the rights up to your interest such that all entries have at least one right, remember to involve all 4 rights.
- 8) Modify your rights replacing all rights of AA & BB visa versa.
- 9) Show a command to delete "execute" right only if all other entries of the same object is having "write" right.
- 10) Show a command to modify the ACM and delete all rights making it empty as output of (b).