Lecture 4 Outline

Reading: text, §3.2-3.3

1. Conspiracy
   a. Access set
   b. Deletion set
   c. Conspiracy graph
   d. \(I, T\) sets
   e. Theorem: \(can\cdotshare(r, x, y, G_0)\) iff there is a path from some \(h(p) \in I(x)\) to some \(h(q) \in T(y)\)

2. \textit{de facto} rules
   a. pass, post, spy, find
   b. \textit{can-know}(x, y, G_0)
   c. \textit{rw-terminal, rw-initial spans}
   d. Connections
   e. Necessary and sufficient conditions for \(can\cdotknow(x, y, G_0)\) to hold

3. Schematic Protection Model
   a. Protection type, ticket, function, link predicate, filter function
   b. Take-Grant as an instance of SPM
   c. Create rules and attenuation

4. Safety analysis
   a. Definitions
   b. \textit{path} predicate, capacity flow function
   c. Capacity
   d. Maximal state