

Instructor Notes for the Genes 'R Us Scenario

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This scenario introduces concepts of physical security, insider threats and general risks of exposing high value assets to the Internet. The scenario introduces the use of a multilevel component, and introduces assurance. The scenario has several phases:

- 1) buy a computer for working on a high value asset and assign a workspace that can be physically secured against outside attack and unauthorized insiders;
- 2) provide the user who access the high value asset with access to the internet without disclosing the high value asset.
- 3) provide a second user with access to the internet while protecting the high value asset from the second user.
- 4) use a high assurance multilevel component to provide the user of high value asset with concurrent real-time access to the asset and the internet.

Suggested flow:

- view objectives, note multiple phases
- start game and wait for ticker complaint
- pause. buy pc and put it on desk in office next to break room
- Drag Jeff to the desk. Play and wait for physical security warning.
- Pause game and go to GAME tab; CLEARANCES and read description of “Advanced Designs” label – see it needs physical security of at least 630. Also note that currently people with this authorization have “HIGH” background checks, while people without a Advanced Designs clearance have low background checks. Look at physical security of zone containing computer. It is low and alarms and good walls are expensive. Look at “upper left”, it is more securable.
- Drag Jeff and his new computer to the new desk in the upper left zone. Buy key and cipher lock for zone and only let users with “refractor” into the zone. Hit play.
- At new objective prompt, pause and check objectives. Buy router and connect workstation to lan and router to lan and internet.
- Hit play and wait until internet attack. Watch movie.
- Press “b” key to pick up at the end of the previous phase.
- At web objective, buy second computer in Jeff’s office and buy router and connect router to internet and internal lan and 2nd computer to internal lan.
- At marketing objective, buy Mary a computer and hook it to lan for internet access and drag Mary to that desk.
- At multilevel objective pause and watch the multilevel components movie.
- Scrap Jeff’s two workstation and buy a Trusted Populos workstation. Connect to LAN, go to COMPONENT window and configure NETWORK Connection to “SL” “NONE”.
- Play and wait for attack. Watch (or assign) the assurance movie.

- Press “b” to pick up at end of previous phase. Scrap computers, and buy the secure shade desktop and connect it as above. Should win.