

Operating System Protection Operating system consists of a collection of objects, hardware or software (e.g., files, printers) Protection problem - ensure that each object is accessed correctly and only by those processes that are allowed to do so. a specific type of security problem Domain = group of processes having the same set of access-. rights what is a domain in traditional UNIX? when process domain switches occur in traditional UNIX? Domain 1 Domain 2 Domain 3 File1[R] File6[RWX] File3[R] File4[RWX] (Printer1[W] File2[RW] File5[RW] Plotter2[W]

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- Trusted Computing Base
 hardware and software for enforcing security rules
- If the TCB works according to specification, the system security cannot be compromised
- A reference monitor-based TCB:









