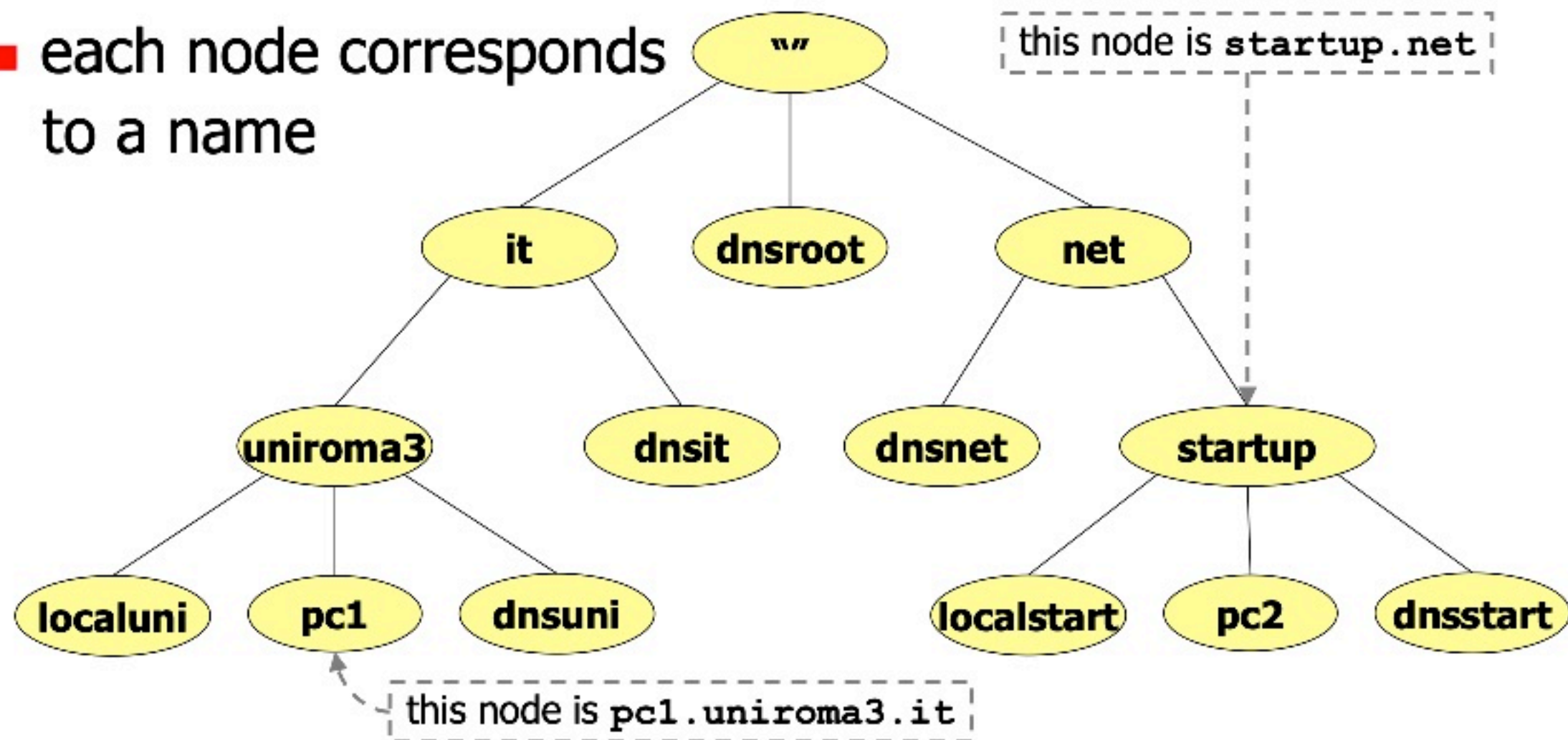
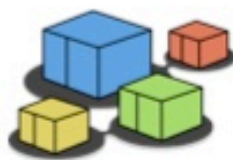


the dns name hierarchy

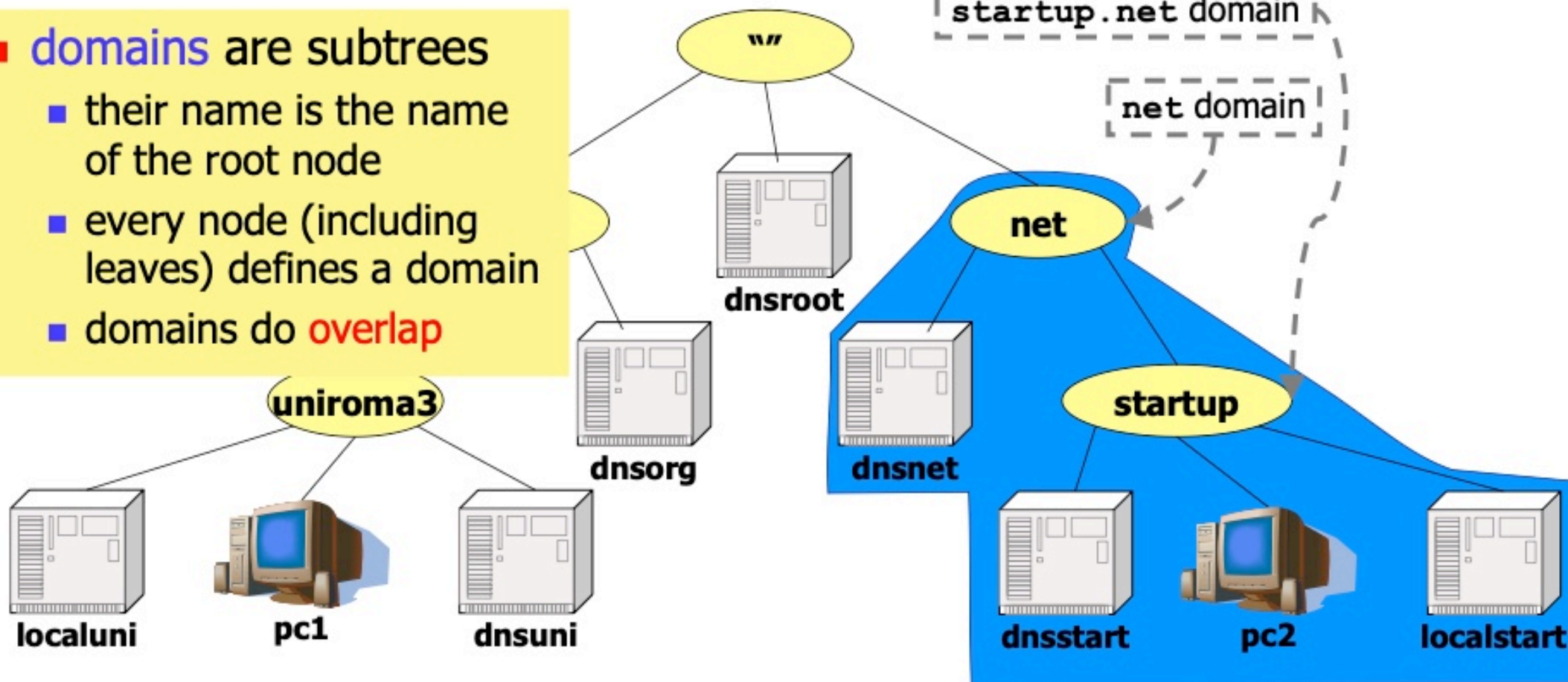
- each node corresponds to a name





the dns name hierarchy

- **domains** are subtrees
 - their name is the name of the root node
 - every node (including leaves) defines a domain
 - domains do **overlap**

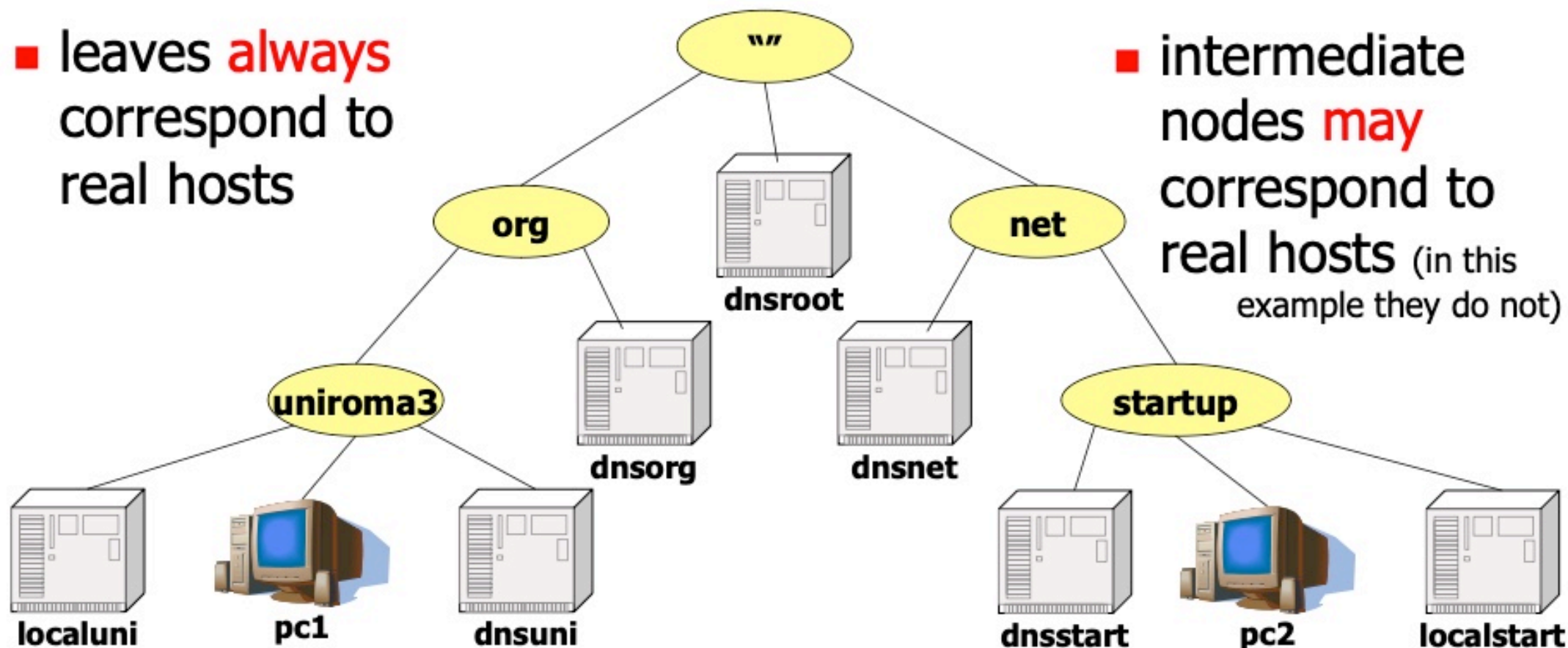


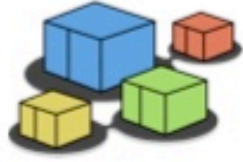


the dns name hierarchy

- leaves **always** correspond to real hosts

- intermediate nodes **may** correspond to real hosts (in this example they do not)

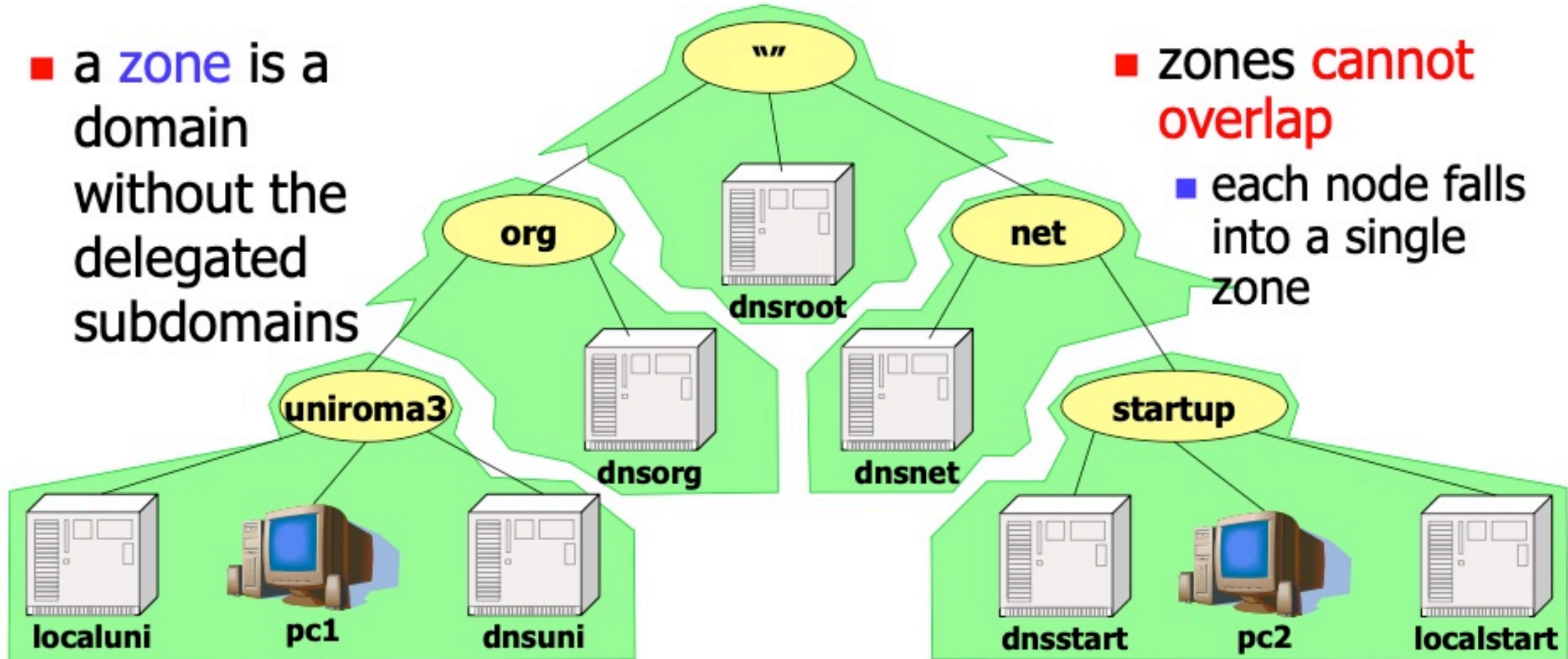


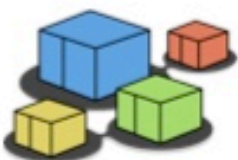


zones

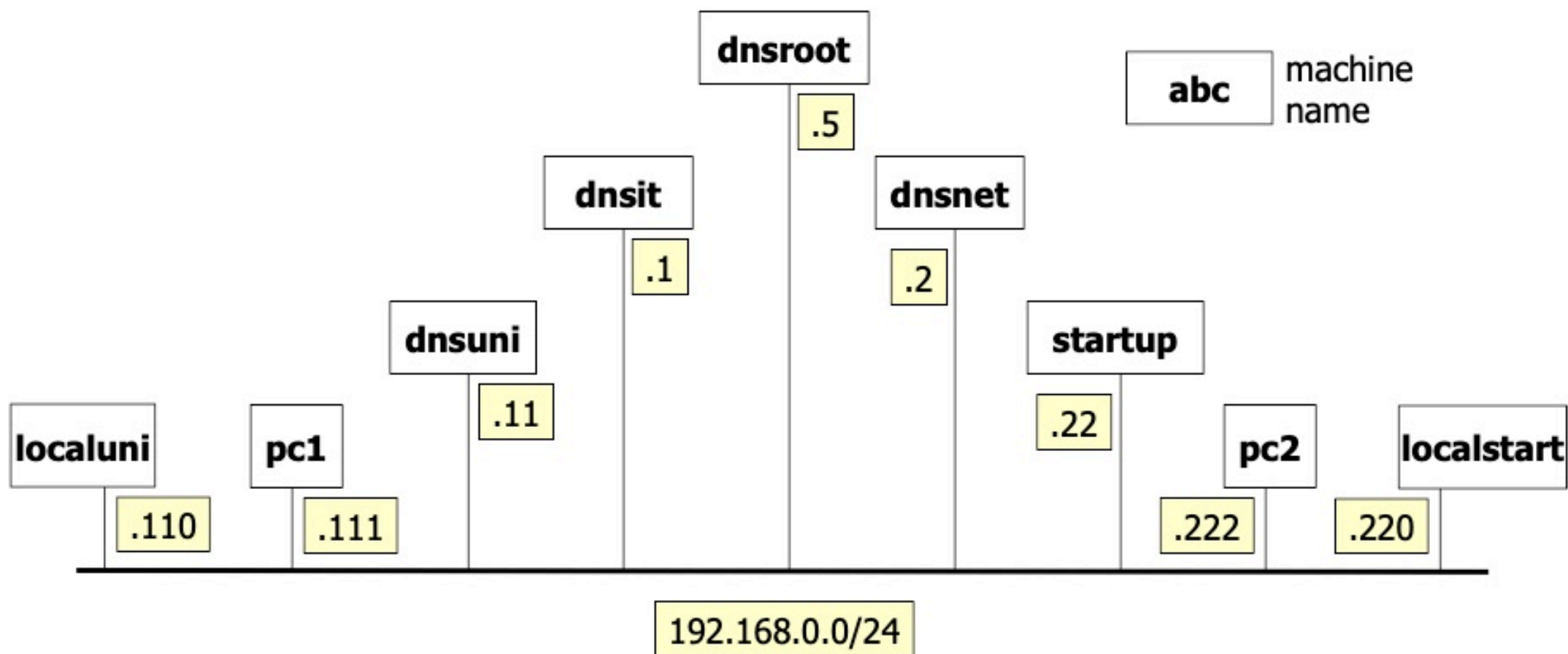
- a **zone** is a domain without the delegated subdomains

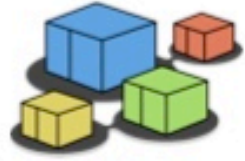
- zones **cannot overlap**
 - each node falls into a single zone





step 1 – network topology





step 1 – dns (zone) hierarchy

