













To address these design principles, we divided the zones architecture into five principal components.

- A state model that describes the lifecycle of the zone, and the actions that comprise the transitions.
 A configuration engine. used by administrators to describe the future zone to the system.
- A configuration engine, used by administrators to describe the future zone to the system. This allows the administrator to describe the 'platform," or those parameters of the zone that are controlled by the global administrator, in a persistent fashion.
- Installation support, which allows the files that make up the zone installation to be deployed into the zone *path*. This subsystem also enables patch deployment and upgrades from one operating system release to another.
- The *application environment*, the "sandbox" in which processes run. For example, in Figure 3 each zone's application environment is represented by the large shaded box.
- The virtual platform, comprised of the set of platform resources dedicated to the zone.

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• CPU • Global fair scheduler can schedule zones • Scheduler within a zone can further share • Memory still to come ☺

| Workload | Base | Zone | Diff (%) |
|----------------|-------------|---------------|-----------------|
| Java | 38.45 | 38.29 | 99.6 |
| Time-sharing | 23332.58 | 22406.51 | 96.0 |
| Networking | 283.30 | 284.24 | 100.3 |
| Database | 38767.62 | 37928.70 | 97.8 |
| sharing worklo | ad overhead | related to lo | opback file |







