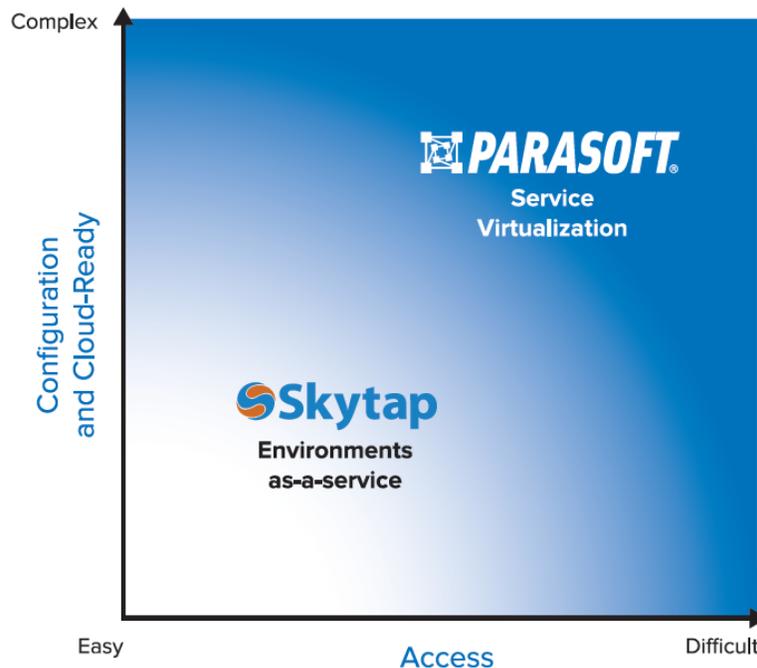




Parasoft and Skytap Deliver 24/7 Access
to Complete Test Environments

The ability to accurately assess the risk of a release candidate for today's composite applications is becoming a tall order. You have highly-distributed development and test teams that need simultaneous on-demand access to an application—as well as its myriad APIs and dependencies that must be present in the environment—in order to continuously test throughout software lifecycle. Building out complete test environments that closely resemble production using conventional server infrastructure is typically slow, technically challenging, extraordinarily expensive, and often downright infeasible due to dependencies that can't be reproduced in the test environment.

To help teams eliminate these constraints, Parasoft and Skytap have joined forces—leveraging innovative system cloning and simulation technologies to rapidly configure, provision, scale, and reproduce complete dev/test environments. The application stacks that are under your control (cloud-ready) can be imported and imaged via an elastic Skytap Environment-as-a-Service. You can then leverage Parasoft Service Virtualization to simulate the behavior of those dependencies you cannot easily image (e.g., third-party services, SAP regions, mainframes, not-yet-implemented APIs, etc.), or those you want to stabilize for test coverage purposes.



The result is that IT teams or environment administrators can easily set up complete dev/test environments that testers and developers can quickly (and simultaneously) configure and provision on demand. Ultimately, this provides the organization:

- A fast and cost-effective means to create and maintain the required test infrastructure.
- Cloud-based, self-service access to complete test environments (including proper network configuration) across distributed teams and partner ecosystems.
- The elasticity needed to accommodate fluctuations in team size and/or test resource needs (e.g., for performance testing or parallel regression tests).



Why Add Skytap to Parasoft Solutions?

Skytap brings the automated scale and elasticity of cloud infrastructure to Parasoft Continuous Testing. By adding Skytap to your Parasoft solution, you can:

- Enable even novice users to stand up complex systems (including VMs, appliances/load balancers, advanced network configuration, etc. as well as virtual service assets) directly from Parasoft Environment Manager.
- Automatically snapshot, save, and share entire suspended test environments—including current state data and Parasoft virtual services—to expedite verification, reproduction and debugging.
- Rapidly and (cost-effectively) expand dev/test resources as needed at critical phases of the SDLC, and release them when not needed for better utilization.
- Run Parasoft on-premise and automatically spin-up, run, and tear down complex Parasoft dev/test environments in Skytap.

Why Add Parasoft to Skytap Solutions?

Parasoft provides a foundation for orchestrating complex test suites, and can launch and leverage Skytap cloud environments as part of each test phase. Parasoft Service Virtualization then extends Skytap solutions by providing access to the dependencies that are beyond your control, still evolving, or too complex to configure in a virtual test lab. By adding Parasoft to your Skytap solution, you can:

- Create more complete test environments—with ubiquitous access to dependencies you can't image as VMs.
- Increase test coverage by easily configuring the environment for “what-if,” security, concurrency, fail-over, performance, and negative test scenarios.
- Eliminate access fees for third-party systems or mainframes, and reduce license costs where a virtual stand-in for expensive software can be applied.
- Gain instant visibility into test environment “health” issues that could impact test results.

Integration Details

Using Skytap's dashboards in concert with Parasoft Environment Manager, you can stand up a single test environment with the necessary “physical” components and network configurations, then dynamically reconfigure the behavior of the test environment components to suit your various test requirements. This saves you from having to stand up an environment for one set of tests, tear it down, then create another environment for the next set of tests.

The Skytap dashboard is used to configure VMs and the physical aspects of a virtual test environment (network connectivity, hardware configuration, etc.). This can include virtual assets, as well as Parasoft Virtualize Server and Parasoft Environment Manager instances. Once these “golden templates” are

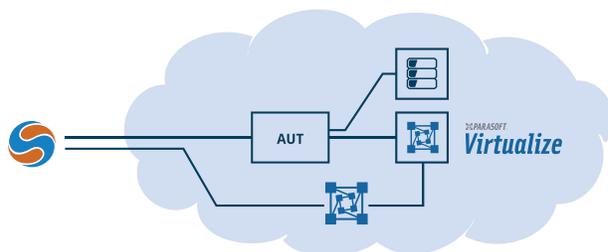
configured, dev/test team members can use them to self-provision test environments on demand, in minutes or seconds, without coding.

Parasoft Environment Manager is used to configure the test environment's functional behavior to meet a specific set of test requirements—then rapidly reconfigure it for the next test scenario. For instance, Parasoft Environment Manager is where you would control whether a test environment uses an actual machine, a Skytap machine, or a virtual asset—and if it uses a virtual asset, what performance and data profile should be applied.

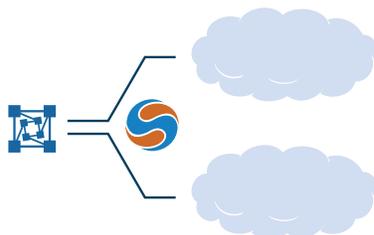
Additionally, a Skytap tool available on Parasoft Marketplace provides additional integration options for provisioning and snapshotting/reproducing Skytap environments directly from Parasoft interfaces. Within Parasoft Environment Manager, you can spin off Skytap environments as part of on-demand or automated provisioning processes. Skytap environments can also be spun off through Parasoft Virtualize provisioning actions or Parasoft SOAtest test scenario setup tests. For example, assume you have a series of Parasoft SOAtest tests that need to run against a specific test environment. The test scenario can then use a setup test to launch the appropriate Skytap environment via API, execute the series of tests, then use Skytap to snapshot the exact environment state for easy reproduction (if the test fails) or tear down that environment (if the test succeeds and the environment is no longer needed).

Flexible Deployment Architectures

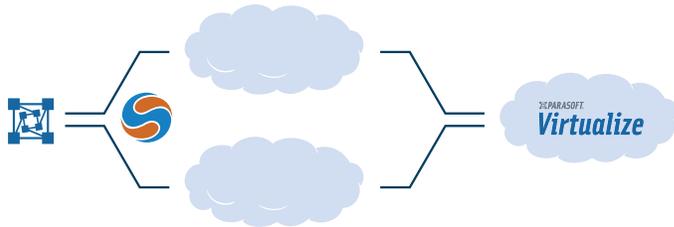
The combined Parasoft and Skytap solution provides a flexible integration architecture to accommodate a broad range of organizational goals and structures. The primary integration architectures are:



A Skytap environment that orchestrates provisioning of your AUT, its imageable dependencies, a collection of virtual assets hosted on a Parasoft Virtualize Server, and a dedicated Parasoft Environment Manager—all within that individual test silo.



Parasoft Environment Manager 1) leveraging the Skytap API to orchestrate the provisioning of Skytap "machines" and 2) configuring the test environment's functional behavior. Skytap dashboard is available for configuring the physical aspects of the Skytap-imaged machines.



Similar to the above, but includes a Parasoft Virtualize Server environment that is scaled and managed within Skytap.

About Skytap

Skytap provides Environments-as-a-Service (EaaS) to transform the software development lifecycle and help customers deliver better software, faster. Today's enterprise is challenged to continuously deliver new customer-facing applications, while overcoming increasing change and complexity in IT infrastructures. Our customers use Skytap to manage, share, deploy and decommission on-demand environments that contain everything needed to collaborate at each phase of the SDLC, without unnecessary costs and project delays due to manual configuration and dependencies. Enterprise IT organizations maintain full visibility and cost control, while allowing dev and test teams to self-provision labs and share complex environments with ease, for a lasting boost to agile DevOps initiatives. To try Skytap and learn more, visit www.skytap.com.

About Parasoft

Parasoft researches and develops software solutions that help organizations deliver defect-free software efficiently. We reduce the time, effort, and cost of delivering secure, reliable, and compliant software. Parasoft's enterprise and embedded development solutions are the industry's most comprehensive—including static analysis, unit testing, requirements traceability, coverage analysis, functional & load testing, dev/test environment management, and more. The majority of Fortune 500 companies rely on Parasoft in order to produce top-quality software consistently and efficiently as they pursue agile, lean, DevOps, compliance, and safety-critical development initiatives. To learn more, visit www.parasoft.com.