

Test Environment Virtualization for Microsoft Azure



SIMULATE YOUR SERVICES WITH PARASOFT VIRTUALIZE

ARE YOU STRUGGLING WITH MIGRATION AND TESTING ISSUES?

- Defects leaking into production due to late-cycle testing
- Late-stage performance issues
- Lack of environment stability inhibiting high levels of test automation
- Multiple check-ins that complicate test environments due to version mismatch
- Lack of test data reducing the amount of test coverage that is achievable

INCREASE EFFICIENCY AND REALIZE THE BENEFITS OF SERVICE VIRTUALIZATION

- Remove test constraints
- Improve product quality
- Decrease time-to-market
- Reduce testing costs

Test and manage complex environments

Performing automated testing to deliver high-quality software is already hard, and it's even harder when you can't access components that are out of your control because systems are still evolving, difficult to access, difficult to scale, or difficult to configure.

When you have a complex application environment that involves numerous APIs and services, you must manage a complex test environment for your DevOps team as well. When you are working with cloud-based services or highly distributed environments, you need to verify that all the parts work together as expected for application quality and performance.

With Parasoft Virtualize, you can create, deploy, and manage simulated services for dev/test environments while reducing the constraints that arise from inadequate test data. This allows you to rapidly prototype functionality to accelerate parallel development of highly interconnected components, increasing the speed of application delivery.

Service virtualization provides significant benefits to your testing workflow:

REDUCE COSTS

Reduce the cost of provisioning expensive IT infrastructure or paying for API access, by simulating back-end systems that are unavailable, expensive to access, or out of your control.

ENSURE PERFORMANCE

Shift-left performance testing by simulating the SLAs of your dependent systems, unblocking yourself from the limited availability of your physical performance test environment.

IMPROVE QUALITY

Perform complete and comprehensive testing of your application while protecting sensitive data.

MANAGE ENVIRONMENTS

Instead of scaling additional hardware for hundreds of new test silos, leverage service virtualization to dynamically deploy-and-destroy virtual test environments.

Create, deploy, and
manage complex virtual
test environments –
anytime, anywhere.

“ KPN can now test earlier, faster, and more completely — accelerating time to market while reducing application risks. ”

[READ THE CASE STUDY >](#)



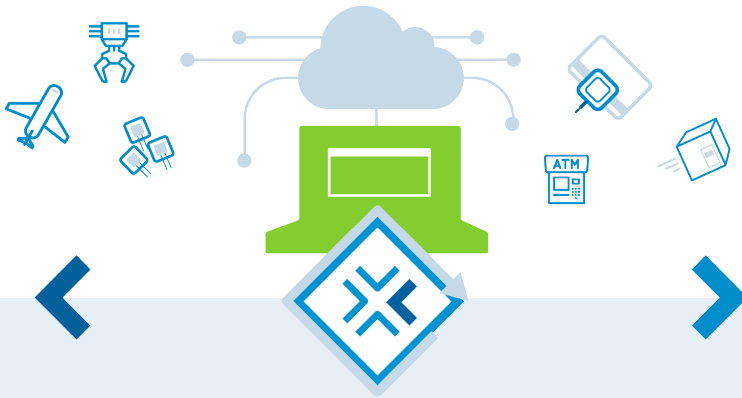
SIMULATE SERVICES WITH PARASOFT

In order to test your complete application, you can use service virtualization to simulate services that are out of your control (APIs, systems owned by other teams, systems that are under development, etc.), which must be available for testing. Parasoft Virtualize uniquely simplifies the process of creating the virtual assets that power service virtualization, by creating proxies.

COORDINATE VIRTUAL SERVICES WITHIN THE TEST ENVIRONMENT

Usually an application doesn't require just one virtual service – it requires many virtual services. Coordinating the configuration of those virtual services would be complex without the Parasoft Continuous Testing Platform (CTP). Virtualize goes beyond other service virtualization solutions with its CTP integration which provides an intuitive browser-based interface for collaboration and coordination of your virtual services.

Through its browser interface or through your Continuous Integration systems, the Parasoft Continuous Testing Platform makes it easy for you to access the right environment at the right time. You can bundle virtual assets, test cases, and test data into a virtual test environment, giving you full control over your test environment and the ability to test your application and APIs earlier and more completely.



GET REAL RESULTS

Parasoft's customers in every industry use Parasoft Virtualize to benefit their businesses:

“Parasoft helped us identify and manage service changes 2-6 weeks earlier.” - *CareFirst*



TELECOMMUNICATIONS

Run earlier, more-comprehensive performance testing by eliminating database dependencies.



AUTOMOTIVE

Accelerate parallel development of highly interconnected components.



HEALTHCARE

Reduce the time spent waiting for data, using industry-specific protocols such as EDI.



FINANCIAL

Simulate systems with industry-specific protocols such as FIX and Swift.



AEROSPACE & DEFENSE

Rapidly prototype functionality to accelerate feedback cycles and reduce time-to-market.



INSURANCE

Increase the scope and frequency of testing, without third-party access fees.

CAPABILITIES

- Service Virtualization
- Database Virtualization
- API, Web, and Load Testing
- Performance Testing
- Test Environment Management
- Test Data Management

PROTOCOLS

- HTTP, HTTPS, HTTP/2
- JMS, JDBC
- MQ, MQTT
- AMQP, Kafka
- RabbitMQ
- TCP/IP
- ISO 8583
- FIX
- FTP
- .NET WCF
- + more

MESSAGE FORMATS

- REST (Swagger, RAML)
- WebServices (WSDL)
- SOAP/ XML
- JSON
- EDI
- FIX
- SWIFT
- Protobuf
- + more

DEPLOYMENT

- On Demand:
- Virtualize Server in Microsoft Azure

- Annual Subscriptions:
- Desktop Client / IDE
- Server Instance

- Professional services:
- Parasoft solution architects
- Implementation partners

PERFORMANCE MODELING

- Performance profiles for advanced performance modeling + High throughput support