

StubGen

Service Virtualization



StubGen



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StubGen

About Service Virtualization



*Emulate the behaviour of specific components in heterogeneous component-based applications such as API-driven applications, cloud-based applications and **service-oriented architectures***

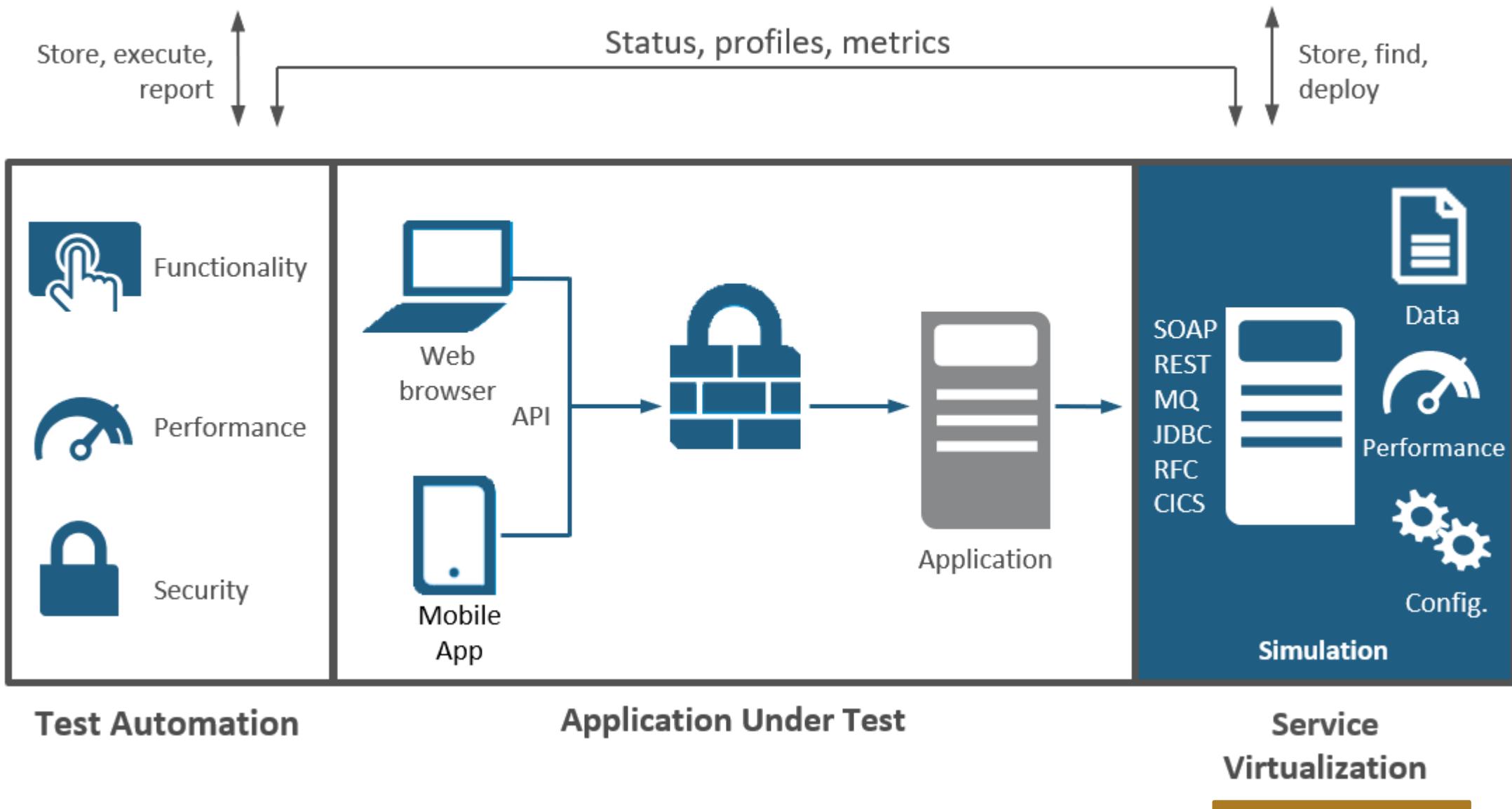


About Service Virtualization



- Most of Software Testers, when they hear the term “Service Virtualization”, they would immediately think of Server Virtualization (Hypervisor, VMWare) etc. While Server Virtualization, unquestionably, is a valuable tool to spin up test environments, service virtualization is different in its entirety.
- Service Virtualization emulates the behavior of software components by removing the dependency constraints on development and testing teams. Such constraints occur in complex interdependent environments when a component connected to an application under test is:
 - ▷ Not yet completed
 - ▷ Still evolving
 - ▷ Controlled by a third party
 - ▷ Available for testing only in limited capacity or at inconvenient times
 - ▷ Needed for simultaneous access by different teams with varied test data
 - ▷ Restricted or costly to use for load and performance testing

Application Lifecycle Management



Concept Flow Explained..

Benefits of Service Virtualization

- Service Virtualization offers a comprehensive testing platform complete with all the requirements of the production environment.
- Service Virtualization enables product testers as well as QA teams to test an application in a simulated working environment that is a replica of the actual deployment in production environment.
- Service Virtualization helps reduce testing and QA costs for up to 67%, which would thus result in more allocation to development teams.
- Service Virtualization helps improve testing capabilities and takes lesser time for the products to hit the market.
- **Virtualization can be Usable** : A virtual API must emulate the core functionality of your normal API, and more. It should be able to simulate awkward behaviour, or slow response time – natural occurrences, and respond with typical error messages
- **Reduce Time to Market** : By using virtualization techniques, however, this cycle can be significantly cut down. By offering a virtual API in a continuous development mode, third party developers can start building applications **before the actual endpoint is live**. This could significantly reduce the time from when the API is developed to the first call being made by an end user within a third party application
- **Isolated Performance Testing Saves Money**

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About **StubGen**



STUBGEN helping to



- ***Make Service Virtualization a Reality for Testers***
- ***Transform your application Delivery Life Cycle with Service Virtualization***



About StubGen



StubGen is a web based service virtualization tool developed by Bluedyne Software, Chennai, India. This tool has been developed on top of open source framework named **WireMock**. It uses Java Script based **DHTMLX UI** controls for front-end and Web Sockets as backend service to communicate to the NoSQL **MongoDB** database.

- Supports virtualization of both SOAP and Restful Web Services
- Supports SOAP, REST and XML-RPC data Protocols
- Supports HTTPS Deployment
- Allows categorization of virtualized services
- Supports magic strings. Magic string enables one or more values from request to appear in response based on the configuration. This feature helps generate a dynamic response
- Supports generation of response based on the request matching criteria configured by the user

Features of StubGen



- Helps create virtual assets either by live recording of production sites or by importing of raw traffic from the file system
- Allows modification to virtualized assets. This helps the SV team to add more APIs to a previously recorded virtual asset
- Provision to fetch the response from the database
- Allows deployment of virtual assets in any port
- Deployed virtual services can be stopped and started
- Fallback option to live service is available in the event of response not available in the virtual service
- One or more APIs from a service can be selected and deployed. Optionally an entire service can be deployed as well
- Supports HTTPS deployments
- A variety of reports can be generated



THANKS!

Any questions?

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