edX Load Tests

Introduction And Current Status

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- Tasks grouped into TaskSets.
- TaskSet nesting.

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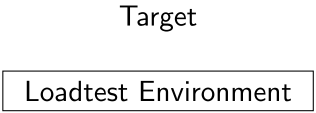
- If you want, during a load test you could login from a browser.

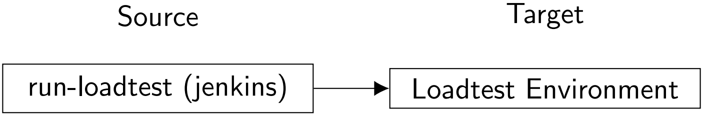
Running Load Tests Overview



Target

Loadtest Environment

Running Load Tests Overview



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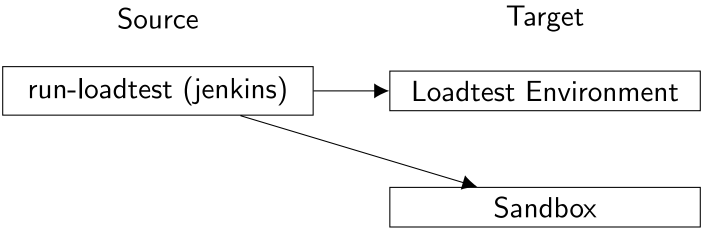

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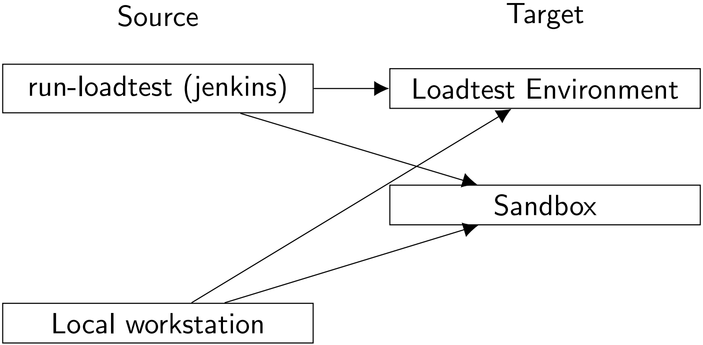

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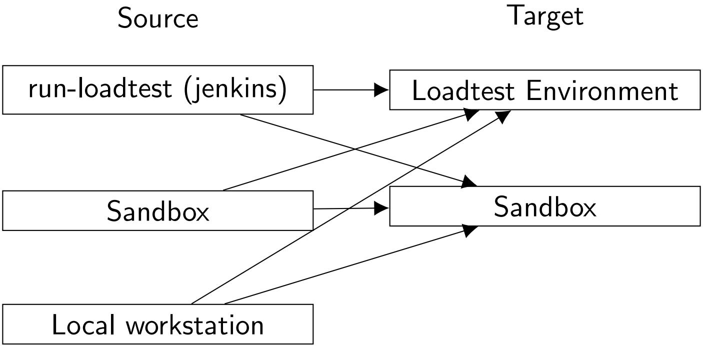

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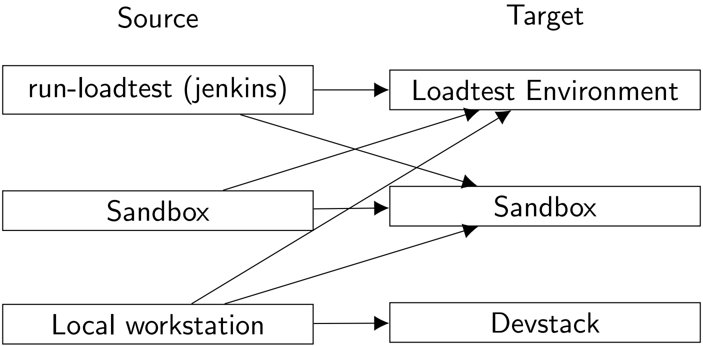


Source

Target

run-loadtest (jenkins)

Loadtest Environment

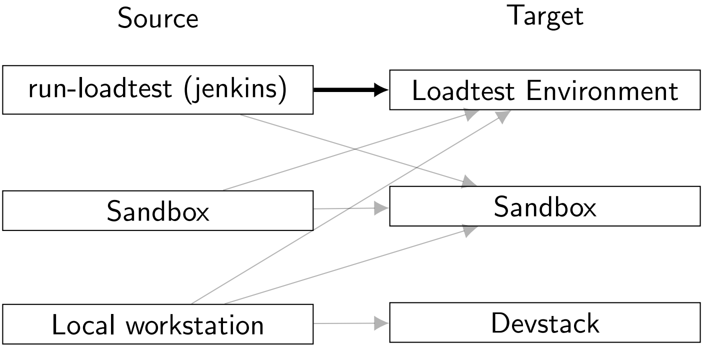
Sandbox

Sandbox

Local workstation

Devstack

Running Load Tests Overview



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- The Jenkins job (run-loadtest) will use settings specified by a job parameter.

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- NewRelic provides deeper application insight.
- Custom metrics in edx-platform: make use of the custom metrics middleware for peering into application behavior.

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- Continuous deployment ⇒ continuous deletion of system metrics!

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- If you want/need real distributed load testing, demand it!

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- New endpoints will need to be added as new tasks.

For fun: Real browser load testing

- `pip install realbrowserlocusts`, then subclass PhantomJSLocust in your locustfile.
- Could make certain tests more realistic (AJAX calls actually happen).
- Potentially far more resource intensive on the client side