

Uniface in the cloud

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Agenda

- Roadmap
- The story so far
- Next steps
- Final thoughts

What is the cloud?



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Cloud Roadmap – a phased approach

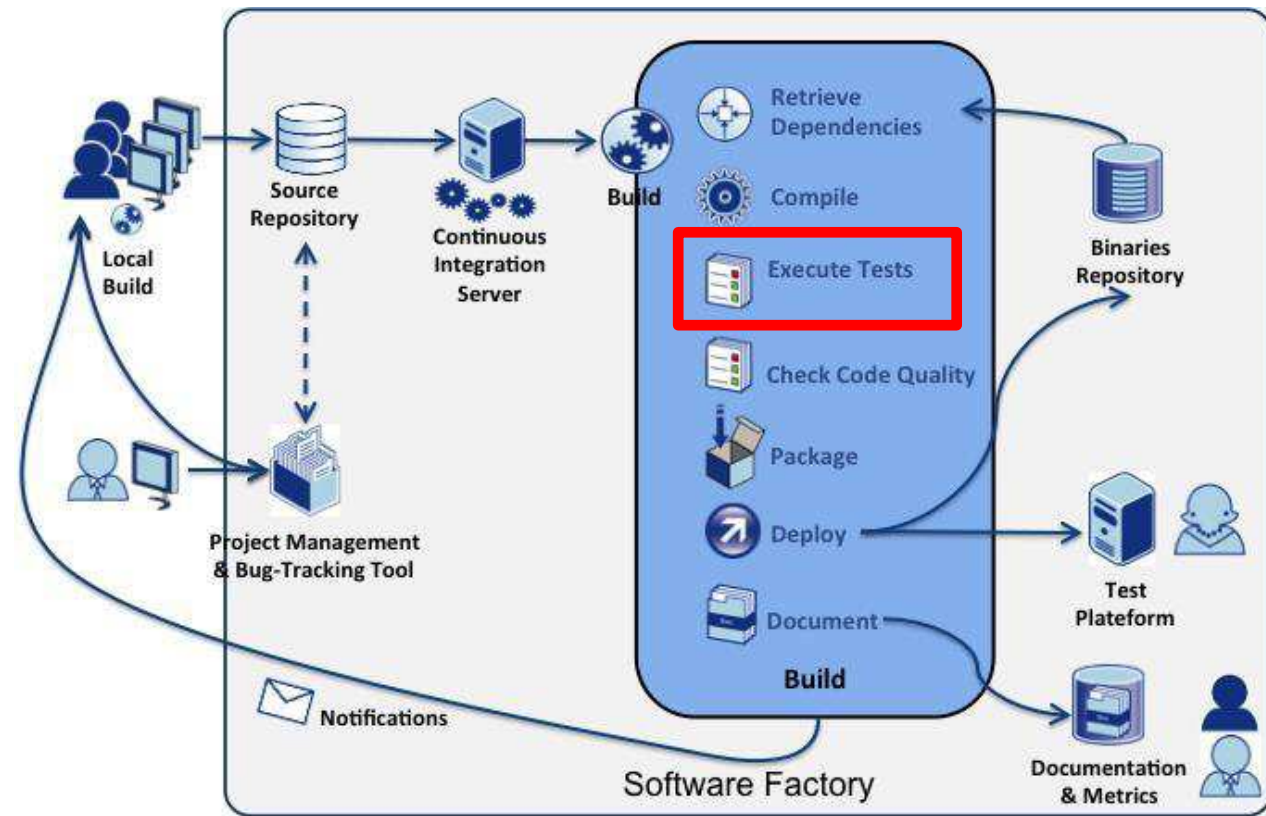
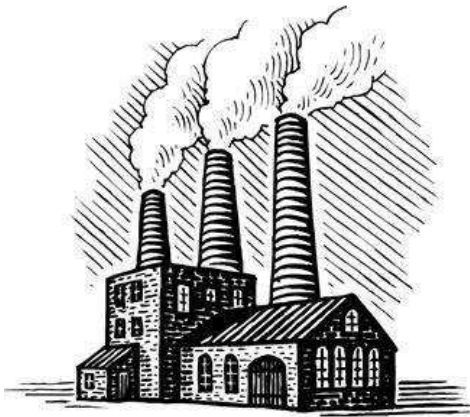
- Phase 1 - Support Linux deployment
- Phase 2 - Add Windows deployment
- Phase 3 – Containerize Uniface
- Phase 4 - PaaS

What does supported mean?

- Listed in the PAM
- Helpdesk will accept support requests
- Tested and verified



Factory



RT and other test frameworks

- Uniface, Ranorex and other testing applications
- Automated Tests
 - > 400 4GL Test components,
 - > 100,000 individual test cases
- Grouped into functionality areas
 - XML
 - Pop Mail
 - SOAP
 - Oracle Unicode
 - GUI
 - ...



In-house test environment

- >100 Database servers
- 4 Test Build machines (Drive tests)
 - 105 slave machines (Execute tests)
- 20 Windows machines per code line for GUI testing
 - 4 (10 patch, 9.7 patch, 9.7 Service pack 10.3)
- LDAP, POP mail, SMTP, Web Servers, Proxy Servers, Call-In/Out Applications, ...



Limitations

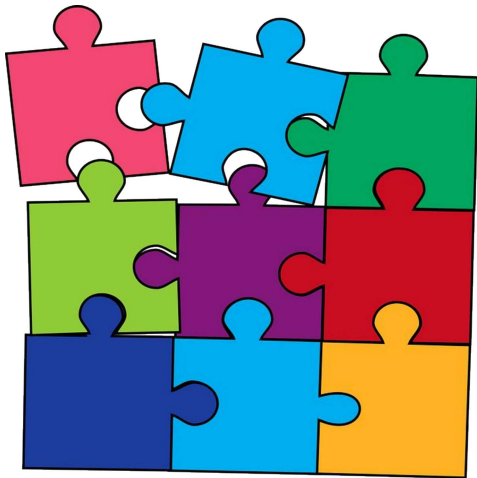
- Services are shared
 - Locked when in use
 - Outage to a service affects all builds
- Static environment
 - Extending can be time consuming
 - Fragile to change
- Uniface assembled rather than installed



Cloud test environment

- Clean machines
 - Automatically created when needed
 - Deleted when the test run complete
- Services not shared
- Easy to extend
- Installed from e-dist + patch

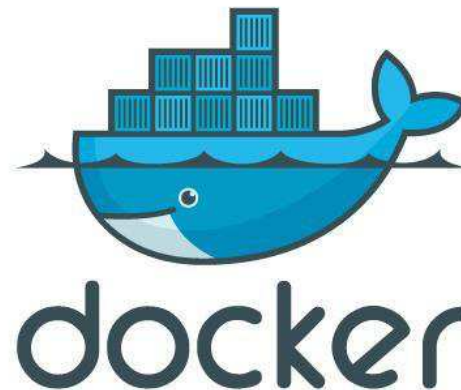
How?



- Base Infrastructure
 - Machine image created (Packer)
 - Database servers (Terraform/Ansible)
- Per platform
 - Infrastructure created/destroyed (Terraform)
 - Deploy and install Uniface (Ansible)
 - Deploy RT application (rsync)
- Per test
 - Create/destroy databases and clients (Ansible)
 - Configure and run test (Ansible)

Tests need services

- Docker images made available for each service
 - Ldap
 - Pop/SMTP
 - Web server
 - Proxy server
 - ...
- Started only for test that need them (Ansible)

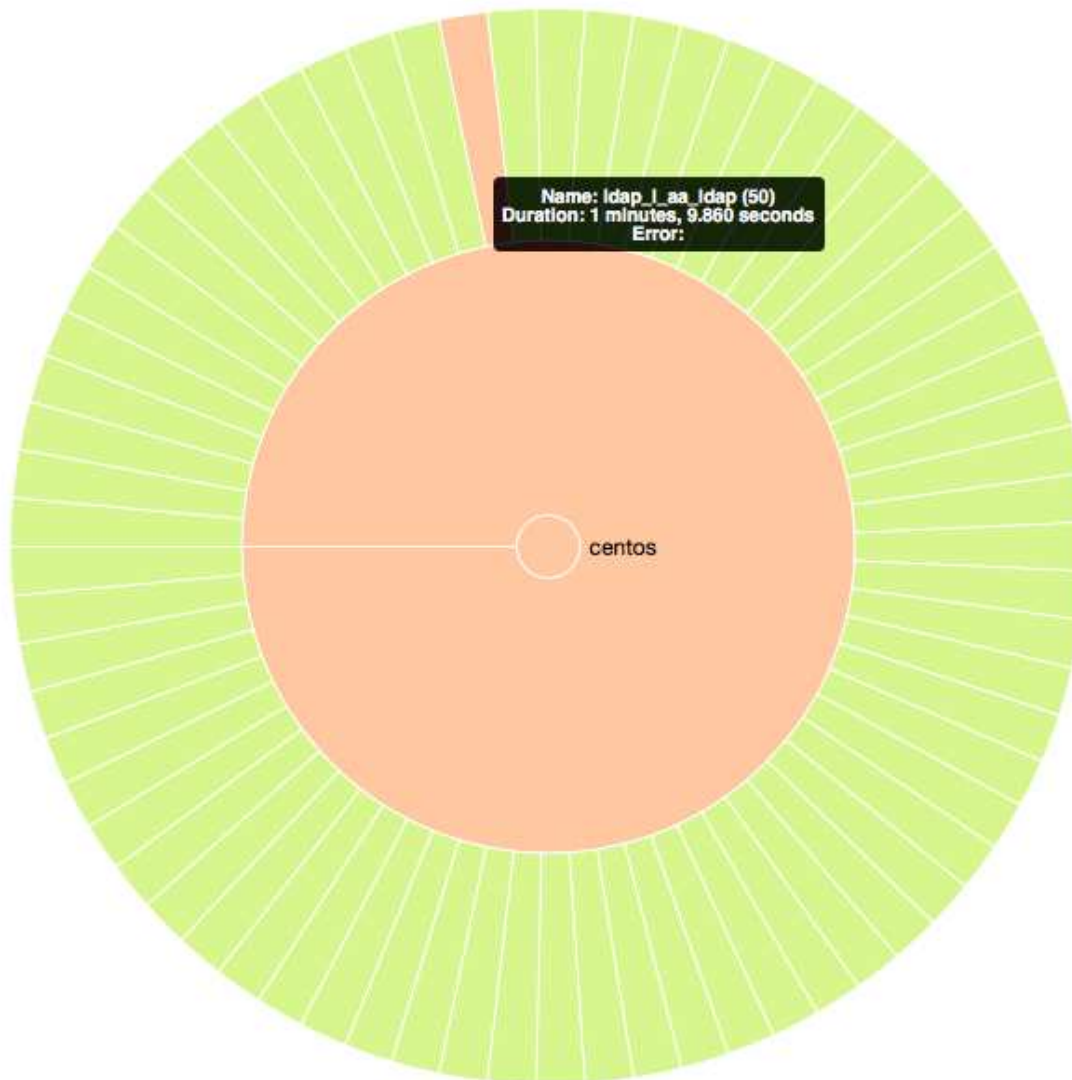


Automating the run



- Tests to run defined using JSON
- Jenkins controls the automatic runs
- Platforms run in parallel
- Split tests over multiple instances of the same platform
- Results returned using rsync
- Report generated as web page

R



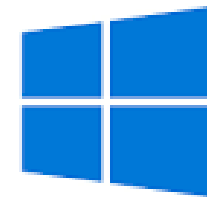
runtime:
script: **aa_ldap**
error_message:
total_runtime: **1 minutes, 9.860 seconds**
cloud_setenv: **envvars**
name: **ldap_l**
number: **50**
group: **ldap**
rt_pri_level:
status: **failure**
end_date: **2017-11-10T15:07:34+0000**
db_version:
artifacts_url:
[Artifacts](#)
[aadib.log](#)
[Pipeline Steps](#)
db:
start_date: **2017-11-10T15:06:24+0000**

Easy access for debugging

- Each step given consistent interface (make)
- Virtual machine makes deployment easy (Vagrant)
 - Factory
 - Support
 - Development
- Remote debugging available

Next

- SQL server
 - Port U5.1 driver to Linux
- Windows
 - Different
 - Language
 - Installer
 - Tests (GUI)



Final thoughts

- Scripted (DevOps)
 - Repeatable
 - Predictable
- Transient
 - Create when something is needed
 - Destroy it when it is not
- Scalable

Thank You!

Q&A

UNIFACE

Advanced Development Technology