

SALSA Features

Main Features	Description	How to prove
Automate the multi-cloud resource provisioning	SALSA can connect to different cloud systems to manage VM provisioning.	We show the time for provision a number of VMs over times, on multiple clouds. Show one application can be deployed on 2 clouds.
Multiple stacks deployment	The configuration of infrastructure, containers and applications stacks are separated, support fine-grained configuration.	Compare between deploying and configuring whole stacks and fine-grained configuration. Number of configuration actions? Time? Package downloaded? Repeat actions?
Runtime configuration on multiple stacks	The configuration capabilities of stacks and service units are exposed to SALSA API to invoke at runtime.	Show the multiple stacks deployment reduces the number of cloud resources provision. Number of code vs number of capabilities. Compare the time for orchestrate fined-grain stacks configuration with single image configuration.
Wire configurations of service units	Support two service units to share parameters during their configurations.	Show how SALSA can wire a new service with existing services.
Centralized orchestrating the configurations	Single salsa-engine stay for coordinating the configurations, sharing parameters and exposing capabilities.	Show the time of configuring large numbers of services in parallel. Time for orchestration and actual configuration.
Manage configuration dependencies	One configuration can trigger other configurations.	Show a graph of configuration dependencies.
Configuration states report	The configuration progress is reported via states and the result as done or error.	Show the of error state summary of some deployment.

Implementation Features	Description	Limitation and TODO
TOSCA parsing	Use TOSCA for describing	Show the input/output TOSCA
Network topology independency	There is no need the connection opened for the salsa-pioneer because it connects to salsa-engine to share info, get command queue, etc. E.g. components in private network or inside docker container can be configured.	Show the network topology of VM, docker, private cloud where application is configured
Support docker configuration	Developer can provide custom Dockerfile or request for default docker container. Software stacks then can deploy on top of this.	Show the time to preconfigure and deploy multiple docker containers.
Support default war artifact and Tomcat	Developer can define a war file and SALSA automatic configure Tomcat (by having in SALSA knowledge)	-
GUI and RESTful services	Show the configuration states and service topology, expose API as cloud service structure.	Show the deployment topology
Integrate with rSYBL	SALSA expose APIs that is specific for SYBL and scale-in, scale-out capability	-