

Fispace Cloud Infrastructure and Experimental Environment

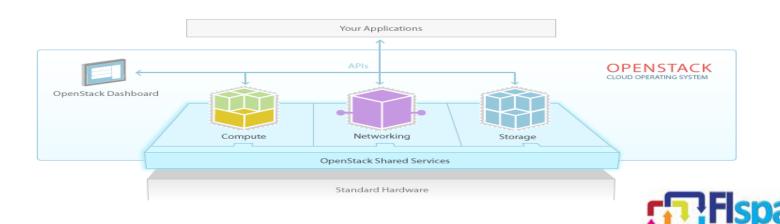




Cloud Infrastructure

- Cloud Infrastructure
 - IBM Pureflex
 - 8 servers
 - Additional servers will be added

- Cloud Software
 - Openstack for Cloud
 - KVM, Citrix, Vmware
 - Openstack and KVM will be used to be aligned with FI-WARE – XIFI project





Network Security

Network Infrastructure

Network Segment

- Public: 37.131.251.0/24

– Private : 172.32.101.0 /24

It is extendable

Security Infrastructure

- Firewall with IPS
 - Next Gen Firewall with IPS blade
- SSL VPN
 - SSL VPN for secure access
 - Developers should provide the necessary informatin



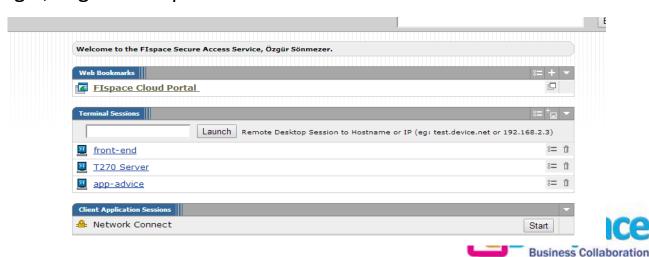


Secure Access Connection

FISPACE Business Collaboration			
	Welcome		e Access Page
	Lispu	ce occure	Access rage
	Username		Please sign in to begin your secure session.
	Password		
		Sign In	

Login: https://vmvpn.kocsistem.com.tr/fispace

After Successful login, Login to 'FIspace Cloud Portal'





What is the EE?

- Experimentation Environment (EE) in Flspace aims at providing a structure so that different stakeholders will be able to explore, test, and interact with Flspace services.
- FIspace experimentation environment will provide
 a controlled environment in which people can test new
 collaborative scenarios before these processes are
 implemented in practice, can gain some confidence in
 understanding how to use FIspace, and very importantly can
 start to see the benefits of using it.





Introduction

- Currently, greenhouse advice experiment scenario is supported.
- EE-core components participating:
 - ExecutionManagerService
 - Executor
 - ScriptExecutionEngine
 - BackendSimulator
 - ExecutionLogManager
 - ExperimentCRUD
 - Experiment Search
 - Report Manager
 - KPI Manager





Functionality of components

ExecutionManagerService

- Starts a new execution for an experiment
- stores it's info
- provides access to all executions done.

Executor

- Executes an experiment's step and logs its result
- ScriptExecutionEngine
 - Executes a step's REST call or jar.
- BackendSimulator
 - Listens to CSB queue for sensor values and saves them. Also feeds sensor values to an expert system in order to produce advice.





Functionality of components(2)

- ExecutionLogManager
 - Logs a step's result and saves it to persistent storage. Also retrieves logs for a specific execution
- ExperimentCRUD
 - Create an experiment to persistent storage, retrieve it ,update it
- Experiment Search
 - Search by name functionality.
- Report Manager
 - Create report , get report by execution or experiment and search report by name, description
- KPI Manager
 - Sample functionality for reading kpi's and creating a report using them





Functionality of components(3)

