





The Complete
Quality Engineering
Ecosystem



Solution Highlights

Multi-Premise Solution

We have taken into consideration the need for cloud independent but cost driven compute requirements for non production environments using Nutanix Calm

Intelligent Integration

We have studied domain specific needs to carefully integrate test environment and data management functions to continuous testing and delivery pipelines. This includes chaos engineering based testing.

Domain Centric

We have looked at the environment and data management needs of Guidewire (Insurance) and Temenos (Core Banking) applications to intelligently tailor the functional aspects of the solution



Tool Agnostic Solution

The solution is API driven and hence can fit into any client eco-system to provide seamless integration and automation capabilities.

An End to End Quality Engineering Eco-System

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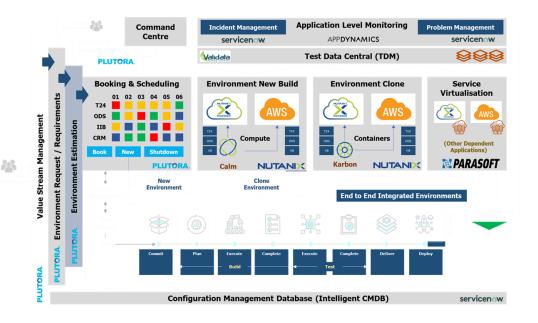
Solution Overview



In the fast paced and continuous delivery ecosystem, faster route to live is every organisation is striving for. Proliferation of environments along with **timely availability** of **fit for purpose** non-production environment are some of the key bottlenecks. **Smart Foundry**, a part of SmartQATM is a Capgemini solution which provides the users a complete view of the ecosystem and help provision **on demand**, **always available** and **fit for purpose** environments on **hybrid platforms**. It improves the **route to live by 30%**, and **productivity improvement by 20%**

Architecture

The Solution



Use Cases

- UC 1: Centralised Requirement Gathering (Func/ Non Func) for Env
- UC 2 : Analysis : a decision to Buy, Rent, Reuse existing hardware
- UC 3: Availability & Conflict view for Environments via Calendar
- **UC 4**: Virtual CMDB and Environment Map for the given requirement
- UC 5 : Automatically Build Environment using Hybrid options
- UC 6: Automatically Build end to end environment using Virtualization
- **UC 7**: Compare and Clone Environments
- UC 8: Environment Dashboard and Health Status check
- **UC 9**: Ability to take Environment Snapshot
- UC 10: Integrate Environment provisioning with CI/CD Pipeline

Solution Overview



Collaboration Forum

Practices Involved

Digital Assurance & Quality Engineering

CG Infrastructure Services

Application Development & Maintenance

Next Generation Talent

Banking

Partners Involved



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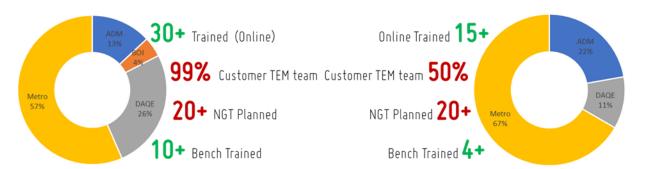


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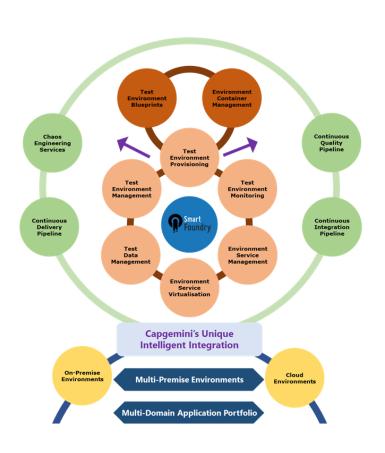


- Number of NGT Pool Trained: 30+
- Date of commencement: 18 May 2020.
- Location of FLP: Chennai
- Total Duration of Training: 2 Weeks
- · Learning Mode: Part time Self Learning
- Day 1: High Level Concepts of Test Environments
- Day 2-6: Plutora Technical Training -Environments (PTE-101) v.1
- Day 6-9: Nutanix Technical Training Enterprise Cloud Administration Course (ECA) 5.10
- Day 10: Familiarity with the customer
- Agile BDD Training

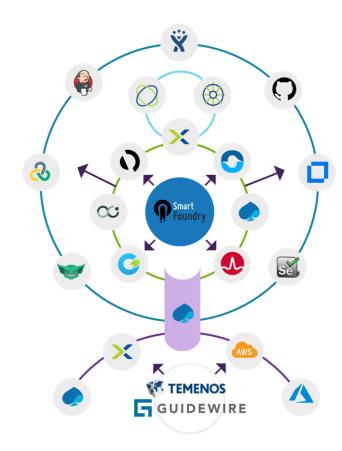
Solution Construct



"Domain Centric, Multi-Premise & Intelligently Integrated"



Functional Ecosystem



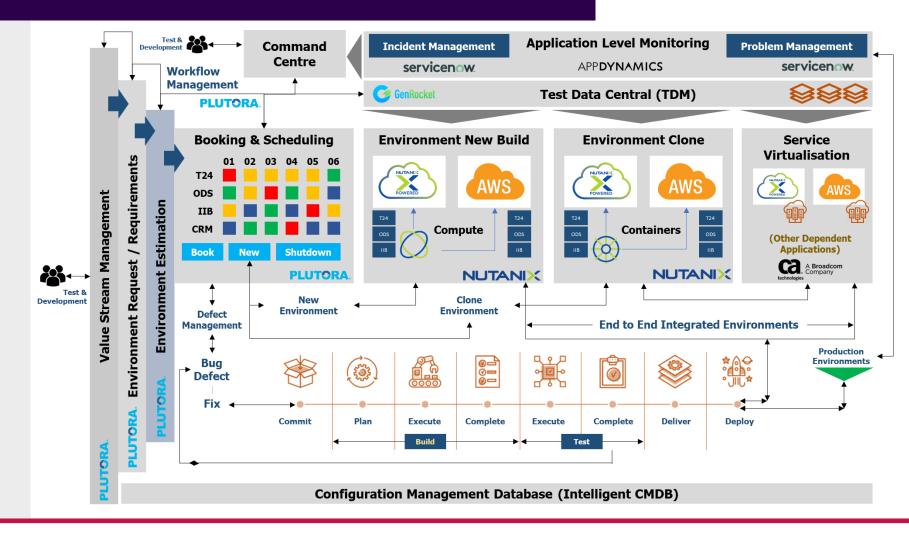
Tooling Ecosystem

- The construct is domain focussed, tool agnostic and function centric
- The differentiator is
 "Intelligent
 Integration" based on
 Capgemini's domain
 specific experience
- The primary components of this solution is driven by Nutanix (Multi-Premise concept) and Plutora (Value Stream Management)



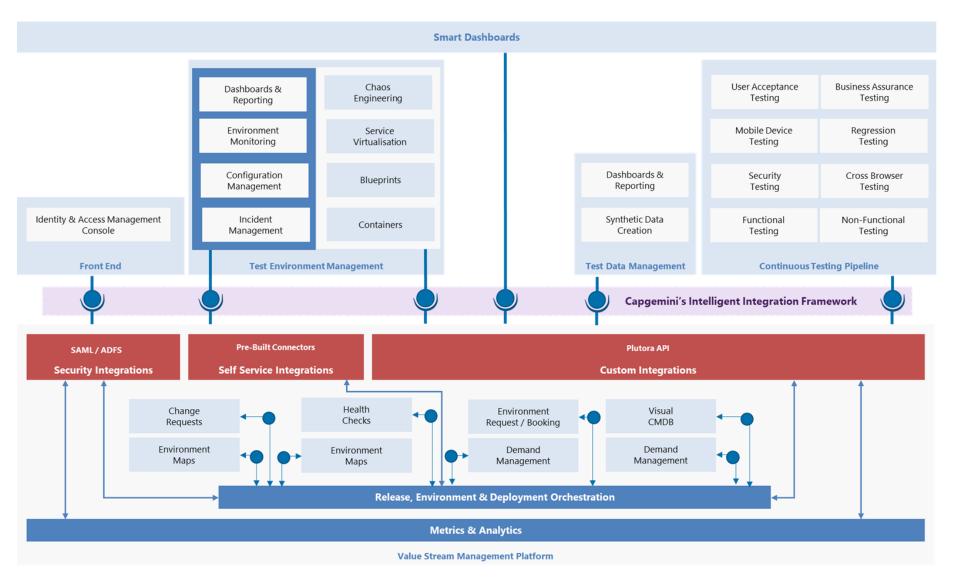
Environments – end-to-end solution components

- View of all the "point-intime" utilisation of environments
- A mechanism / workflow to book, release or invoke build of environments based on a contention
- An end-to-end workflow to request environments through a managed process
- An end-to-end environment map showing all of the dependent application and interdependencies between multiple environments





Smart Foundry Integrated Architecture

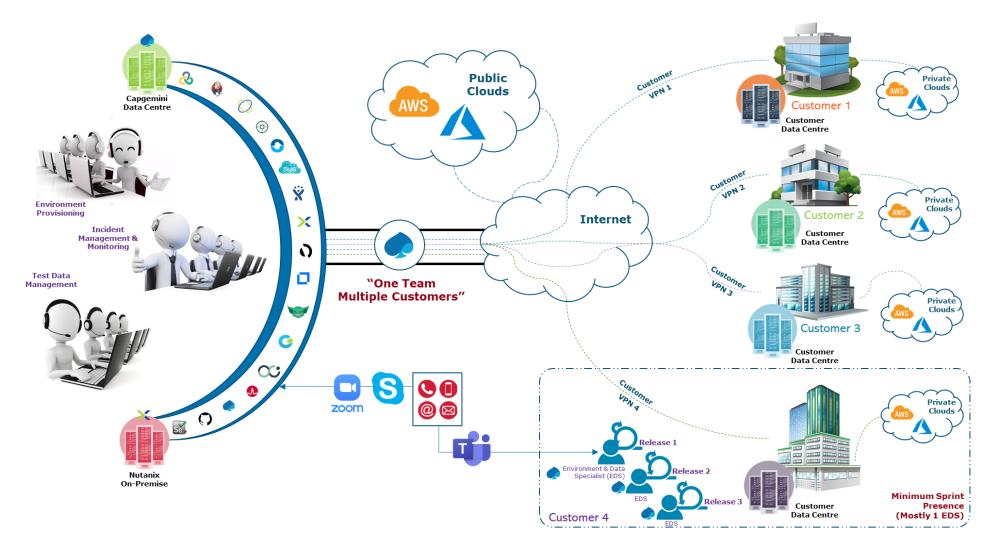


- Capgemini's
 intelligent
 integration
 framework enables
 smart workflows
 through custom built
 API's that ensure
 complete end to end
 data flow between
 various tools
- Tools can be re-used from client or can be implemented as prebuilt



Capgemini

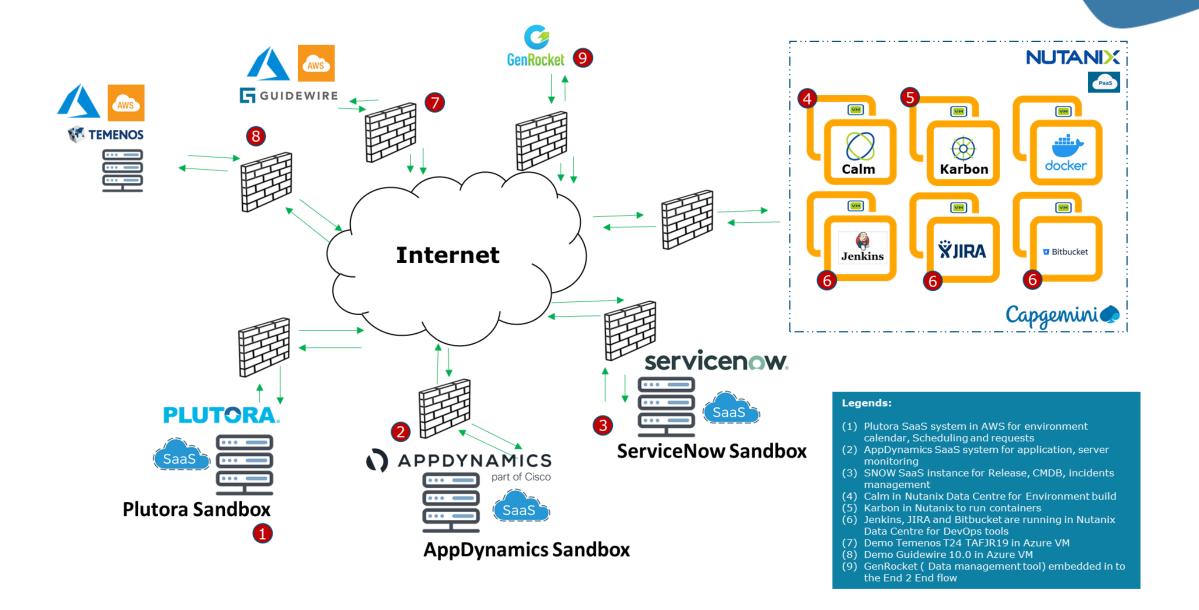
Smart Foundry Service Model



- No Tool Costs for the Client
- No large teams at customer locations
- One stop shop for all environment and data needs
- SLA based service
- Anytime service coverage
- Dedicated Environment
 & Data Specialist per release
- Agile & Waterfall friendly
- Can re-use client tools
- Secure VPN connectivity per customer

Sandbox Ready Solution





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People matter, results count.

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