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Accelerating the Enterprise Cloud Journey

Infosys Cloud Infrastructure Validation Platform

Infosys Cloud Infrastructure Validation platform helps conduct cloud readiness and non-functional validation for an Azure cloud platform build by making use of *open-source technology* and custom scripting.

This platform is a collection of various tools and enablers under one umbrella to validate cloud platform for *Configuration check, Monitoring, AI based trends and predictions, Cloud Security, Network leakages & threats, Resilience Testing and Performance testing.*

Key Features

Cloud Configuration Validation
- Platform Readiness validation
- Cloud Server build validation
- Adherence to requirement specifications

Monitoring
- Native monitoring of instances
- Alerting for threshold limit
- Trend analysis for seasonality checks
- Prediction for effective planning

Security
- Early identification of misconfigurations and security risks
- Cloud Compliance scans

Network Vulnerability
- Network exploration or audit
- Network isolation check in IAAS
- Vulnerability on ports, hardening and leakages in network fencing

Resiliency
- Static attack on resources to check performance
- Dynamic attacks for simulation of real-time usage of resources

Performance
- Shift-left approach - Preventive and Predictive analytics
- Chaos validation

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Differentiators

Cloud Ready
Azure Plug and Play

One stop solution
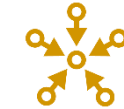Cloud Readiness, Security audit
Monitoring instances

Zero Scripting
Effort saving

Automation
Templates
One click Execution

Test Orchestration
Integrated

On Demand
CI/CD integration

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Cloud Readiness Assessment – Cloud Configuration Validation module

Need:

Because of rapid adoption of Azure cloud infrastructure and migration there is a need for an Azure cloud solution to validate:
- Platform Readiness validation
- Cloud Server build validation
- Adherence to requirement specifications

Infosys offering:

Cloud Configuration Validation can validate the current state of Azure cloud infrastructure against a desired state configuration in cloud deployment architecture. Salient features of the solution are:
- Pre-defined templates
- Preconfigured - 10 cloud services, 350+ check points
- One click validation
- Concurrent validation
- Interactive test result
- Auto defect management
- Integration with Azure DevOps

Benefits:
- Reduce Test cycle time by 80% and optimize cost by 20%
- 90% Effort reduction in compilation of test reports, Test Management Services (TMS) integration and downloadable reports
- ~50% Early defect detection & up to 30% person-hours effort reduction
- ~30% Faster cloud adoption

Validation Result

Test Case Name	SQL Validation
Test Case Description	SQL Validation
Category	Database
Service	SQL
No. of Validation Counts	25
Status	Fail

```
Test Result {8}
  sku {3}
    name {3}
      Input_Value : Standard
      Cloud_Value : Standard
      Status : Valid
    tier {3}
      Input_Value : Standard
      Cloud_Value : Standard
      Status : Valid
    capacity {3}
      Input_Value : 10
```

Test Execution Report   user2

Test Suit Name	Validate Vnet
Test Suit Description	Validating Azure Virtual Network
Time Stamp	Mon, Oct 12, 2020, 1:29:13 PM
No. of Test Cases	2
Created By	user2
Execution status	completed

Export to JIRA

Validation Overview
- Fail Validation
- Pass Validation

19	10	9	0
Total Validation	Pass Validation	Fail Validation	Not Run Validation

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THANK YOU

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