

Infosys cobalt

*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

Differentiators



Cloud Ready
Azure Plug and Play



One stop solution
Cloud Readiness, Security audit
Monitoring instances



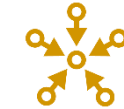
Zero Scripting
Effort saving



Automation
Templates
One click Execution



Test Orchestration
Integrated



On Demand
CI/CD integration



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

The screenshot displays the 'Validation Result' window. At the top, a table provides summary information for the test case:

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

Below the table is a tree view of the test results:

- 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

The bottom section shows the 'Test Execution Report' for 'Validate Vnet'. It includes a table with test details and a 'Validation Overview' section with a donut chart:

Test Suit Name	Validate Vnet
Test Suit Description	Validating Azure Virtual Network
Time Stamp	Mon, Oct 12, 2020, 1:28:13 PM
No. of Test Cases	2
Created By	user2
Execution status	completed

[Export to JIRA](#)

Validation Overview

- Fail Validation: 13.0%
- Pass Validation: 47.4%

Summary statistics at the bottom:

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



THANK YOU

© 2018 Infosys Limited, Bengaluru, India. All Rights Reserved. Infosys believes the information in this document is accurate as of its publication date; such information is subject to change without notice. Infosys acknowledges the proprietary rights of other companies to the trademarks, product names and such other intellectual property rights mentioned in this document. Except as expressly permitted, neither this documentation nor any part of it may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, printing, photocopying, recording or otherwise, without the prior permission of Infosys Limited and/or any named intellectual property rights holders under this document.