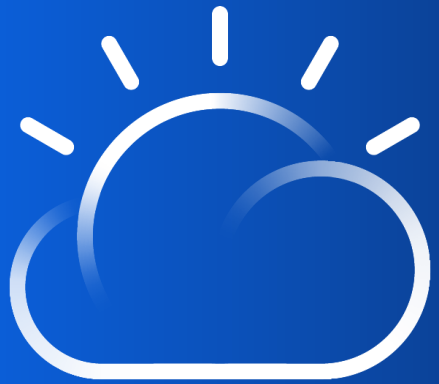
IBM Cloud Skytap

Cloud Reinvented



IBM Cloud

Cloud-driven technologies and processes can greatly improve the **efficiency**, **agility**, and **scalability** of the enterprise.

But…

The Challenge of Two Worlds

Innovation Happens Here

Cloud-Native Applications

Net new development – ML, AI, IoT
Built for the cloud
Continuous deployment

76% of IT budgets by 2020

The Business Runs Here

Traditional Applications

Mission-critical data and logic
Built for the datacenter
Slow release

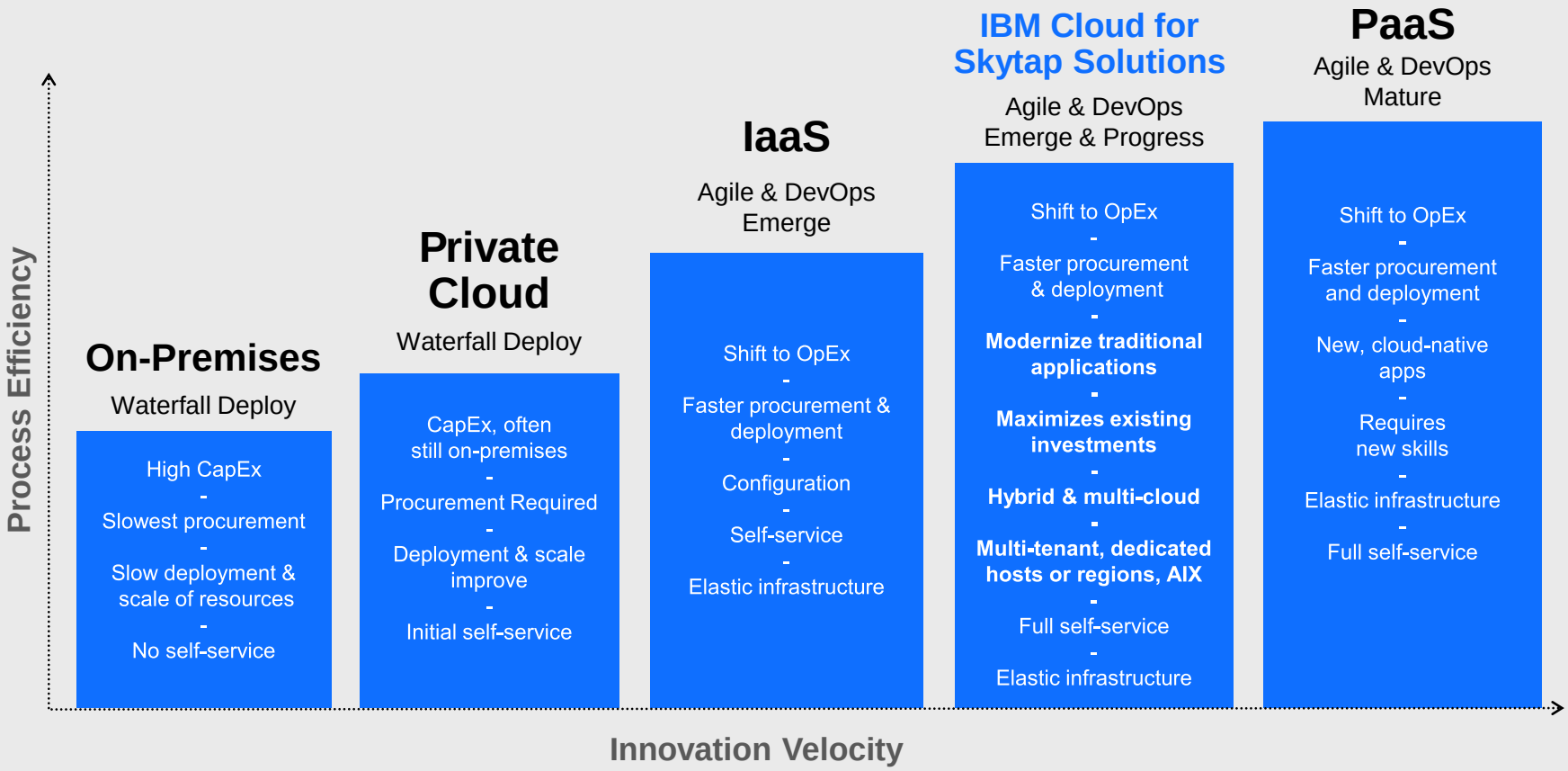
Modernization is More than Cloud-Native

Hybrid Application

Cloud-Native Components
Containers and cloud-native services
Rich API and self-service portal
Multi-tenant or single-tenant
Global capacity on-demand

Traditional Components
Native x86/VMware and Power/AIX support
On-premises equivalent network
Unconstrained virtual hardware
Rapid migration

The Modernization Spectrum



Transform Over Time, Not Overnight

Modernization with IBM Cloud for Skytap Solutions (ICSS)

Infrastructure Modernization

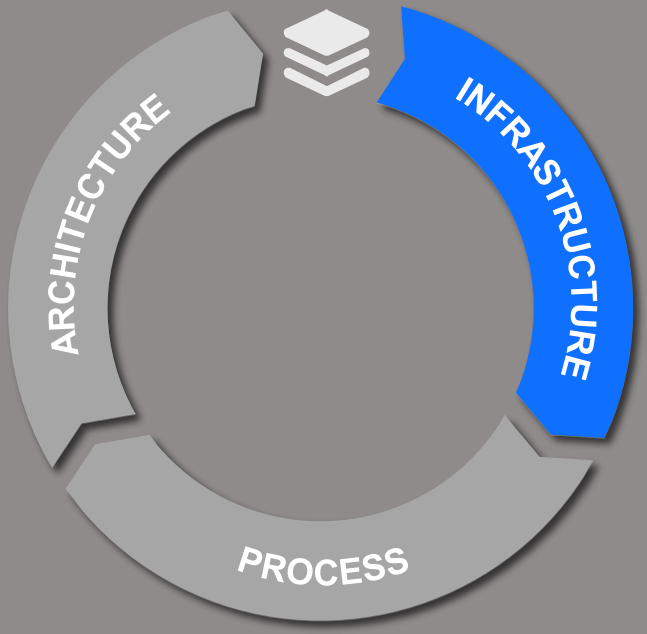
Adopt cloud infrastructure to eliminate SDLC constraints

Process Modernization

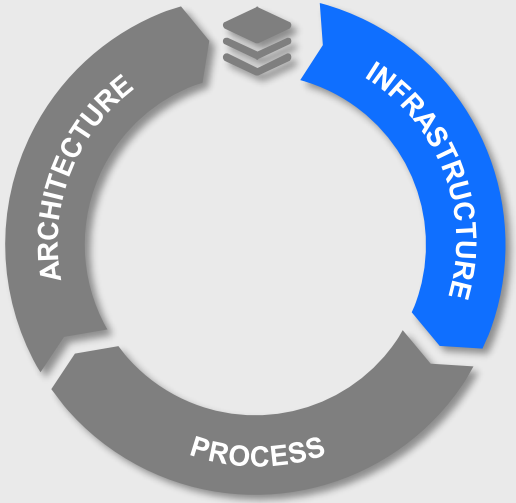
Introduce agile & DevOps processes along with CI/CD automation

Architecture Modernization

Accelerate innovation using new cloud native architectures and services



Infrastructure Modernization

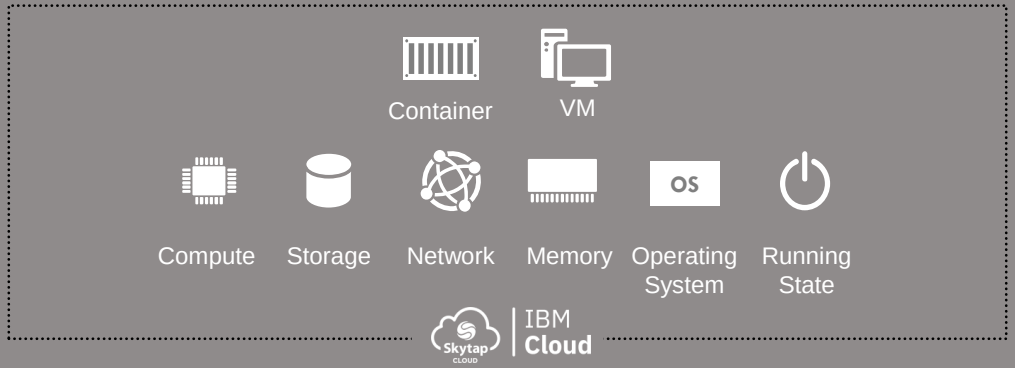


39% Lacked self-service before IBM Cloud for Skytap Solutions (ICSS)

57% Did not have enough environments

30% Procurement & provisioning was too slow

Environments Over Infrastructure



Self-provision
Clone
Save as template
Suspend/Auto-suspend

Schedule
Delete
Role-based access
Quotas and limits

Provide self-service

Reduce provisioning & configuration time

Increase infrastructure utilization

Public Cloud Platform

Rapid Migration

Datacenter replication
-
Cloud Import Management Appliance (CIMA)

Global Availability

United States
-
Canada
-
United Kingdom
-
Singapore
-
Australia

Capacity On-Demand

Multi-tenant
-
Single-tenant
-
Dedicated Regions

Granular Control

Role-based access
-
Quotas, limits, & alerts
-
Global usage dashboard

PowerVM | AIX | vmware | ORACLE SOLARIS

The Only Cloud for AIX

Broad Compute Support

Run AIX (6.1, 6.2, 7.1) alongside x86/VMware and containers

Rapid Migration

Rehost workloads as-is

Agile Development

Enable self-service, integrate with DevOps tooling

Modernization

Accelerate architecture modernization initiatives

Veritas Completes Datacenter Migration in <50 Days

Rapid Migration
10,000 VMs
-
675 TB

Wide Adoption
3,000 end users and administrators onboarded

Granular Control
Improved security with RBAC
-
Controlled costs with quotas, limits, and alerts

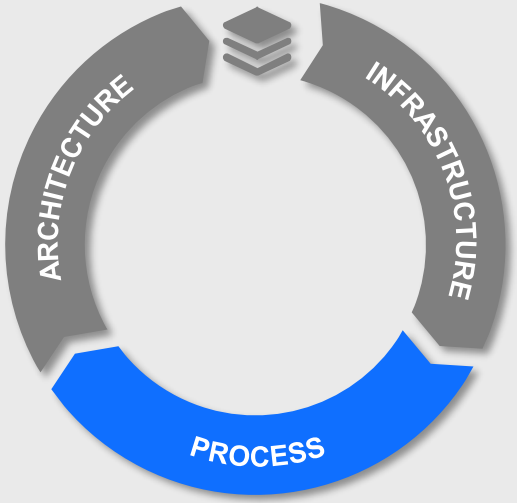
"We may have been able to build a solution internally from purely a hardware standpoint, but the orchestration level, automation, and everything else IBM Cloud for Skytap Solutions (ICSS) provides would've been impossible to replicate fast enough to give our customers what they need."

—

Payman Armin
Vice President of IT

VERITAS

Process Modernization



31% Adopted IBM Cloud for Skytap Solutions (ICSS) to drive agile development, DevOps, and/or CI/CD

36% Chose ICSS for faster scale & deployment

38% Turned to ICSS after being driven by the business to deliver faster

Environments Drive Agile, DevOps, CI/CD

Eliminate configuration drift

Deliver faster with parallel work streams

Automate with Restful API

DevOps Collaboration Made Easy

Copy to Region

Ensures low latency
-
Enables follow-the-sun development
-
Prevents configuration drift

Sharing Portals

One-click access via URL
-
Configurable access
-
Enables concurrent users

Projects

Quick sharing of templates, environments, and assets
-
Multiple roles with cascading permissions that govern member actions

Choice of Access

SmartRDP
-
Port forwarding
-
Public IP
-
API with tokens

NBCUniversal Improves Time to Market and Software Quality

Automated Workflows

Automated delivery by integrating IBM UrbanCode Build and Deploy

Increased Test Coverage

Increased coverage from 20% to 100%

-

Can now run complete test suite of over 1,000 test cases in minutes

Accelerated Delivery

Reduced test cycle time from 45 days to 60 minutes

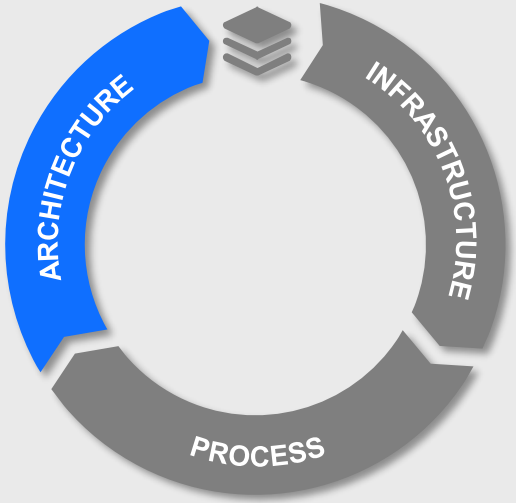
"This is the most powerful DevOps cloud I've ever encountered. It's enabled us to improve code quality by orders of magnitude. Without these tools, we would've never been able to achieve these levels of quality and enterprise-grade consistency across multiple business units and applications."

—

John Comas
DevOps Platform Manager

NBCUniversal

Architecture Modernization

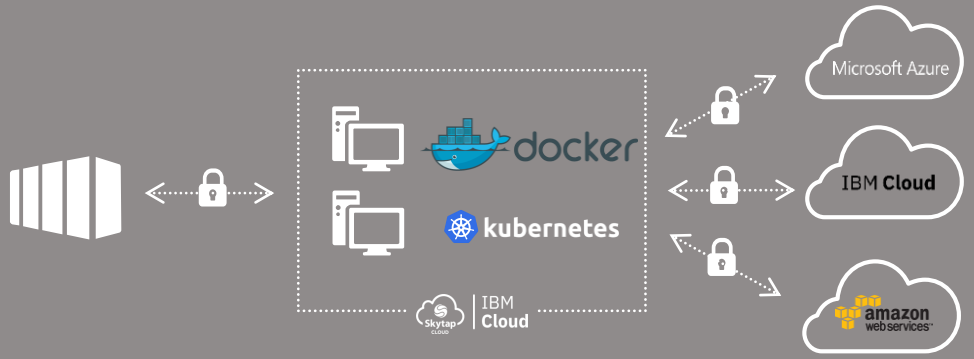


34% Integrate third-party cloud services with IBM Cloud for Skytap Solutions (ICSS) apps

17% Integrate third-party cloud services for IOT with ICSS applications

20% Use containers in ICSS

Accelerate Your Modernization



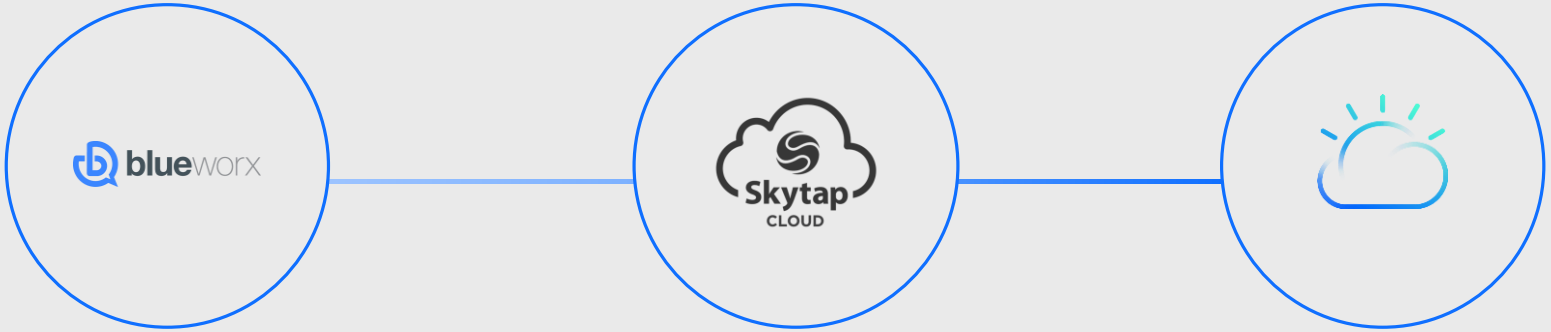
Integrate cloud-native capabilities from many cloud providers

Dynamically refactor to avoid starting over

Maximize existing investments in traditional applications

Blueworx Drives Innovation with Hybrid Applications

Architecture Modernization Case Study



Infrastructure

AIX/Linux-based IVR application offered as SaaS running on Skytap Cloud

Process

CI/CD build automation integration IBM UrbanCode with Skytap Cloud

Architecture

Next-gen capabilities are added by integrating IBM CloudFoundry app services and Watson with Skytap Cloud

IBM Cloud for Skytap Solutions (ICSS) Cloud Difference

Compatible
Environments replicate on-premises configurations and are cloneable to network tier

Simple
Intuitive UI powers complex actions with single-click workflows

Self-Service
Instant, direct access to environments, eliminates environment provisioning times and hoarding

Speed
Accelerates the cloud journey from migration, through software delivery, to application modernization

Dashboard - IBM CSS

Secure https://cloud.skytap.com/?resource_type=configurations

Apps | Google | Analysts | Travel | Partners | Skytap | Social | Other Bookmarks

IBM | Dashboard | Environments | Assets | Projects | Schedules | Admin | Help

Dashboard

New environment | New project | Dashboard Settings

GETTING STARTED

Training Academy (3) | Videos (16) | Documents (14)

Working in IBM CSS
Learn the basics you need to build, run, and manage virtual environments

Administering IBM CSS
Learn to create users, manage usage, and secure your account

Mastering IBM CSS
Go beyond the basics to learn more about setting up advanced virtual networks and using automation tools

RECENT ITEMS

Environments | Templates | Projects

My recent items | Running

Storefront Broadleaf v3.0.6
Running: 2 minutes (created: 11 minutes ago) | Owner: Ian Beritner | Region: US-Central | Storage: 1.04 TB | SVMs: 44 | Networks: 7 | Container hosts: No
Labels: 0

8 VMs

Go to Environments

USAGE

Company | Personal

Concurrent SVMs: (44 / not set)
56 available to company

SVM Hours: (10.6 / not set)
2,989 available to company

Storage: (4.05 TB / not set)
9.61 TB available to company

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IBM

IBM Cloud Skytap

Cloud Reinvented