# Modernize, Build, Test and Deploy IBM Applications in Azure with Skytap



> With a clear path to the cloud, IBM i applications stand to make the greatest gains from DevTestOps automation, including agile software delivery, increased disaster recovery capabilities and reduced downtime.

Deploy and test complete IBM i applications in Skytap directly from Azure deployed DevOps platform, quickly and simply, and scale down after use.

## Challenge for Modern IT Teams

Development on core business applications today demands highly scalable environments and an optimized DevTestOps cycle to build, test and deploy small software increments frequently and securely. IBM i is no exception. Since an estimated 70% of IBM i users run over half of their mission-critical business applications on IBM i, the teams developing these applications are poised to make the greatest gains from DevTestOps automation in the cloud – from agile software delivery to reduced downtime risk.

## Modernizing Traditional IBM i Applications

Skytap and ARCAD have partnered to bring RPG source code management and the IBM i application delivery pipeline in Azure.

Using enterprise-grade, open-source tooling with distributed platforms, deep analysis of these traditional apps, and unique repository-based dependency knowledge, ARCAD accelerates the rate by which software changes from Dev to QA to Production. This maximizes the "shift left" of defects for reduced IT cost and risk.
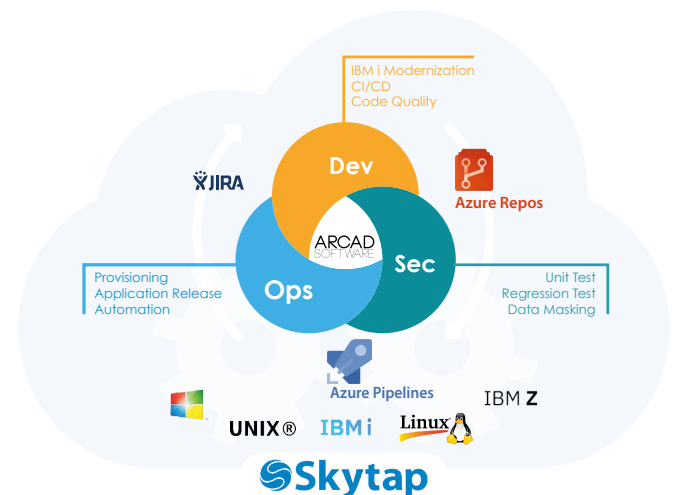
## Accelerate Continuous Delivery

IBM i customers are able to take advantage of a rapid, secure and scalable DevTestOps framework to automate and optimize the development process. This is complemented by a proven methodology and suite of cloud-native tools and services, which can be used to modernize IBM i applications in Skytap, infrastructure-as-a-service purpose built to run IBM Power in the cloud.

Using Skytap features, teams can replicate, template and share complete applications in minutes.

Copy within your local region or across Skytap regions, ultimately enabling follow-the-sun deployment. This allows DevTest teams to make existing applications more powerful, improve testing and increase the pace of innovation.



## DevTestOps: Complete CI/CT/CD
## Cycle for IBM i Orchestrated by Jenkins

**Continuous Integration (CI)**: 100% build automation with ARCAD-Builder "smart" dependency build for IBM i.

**Continuous Test (CT):** data-oriented regression testing for IBM i with ARCAD-Verifier for maximum "shift left" of defects. Optional test Data Masking/Anonymization for data protection (GDPR) compliance.

Saving an application environment as a template preserves a copy of the environment in a read-only state, and contains some or all of the environment VMs, networks and settings so you can quickly recreate the environment from a known state at a later time.
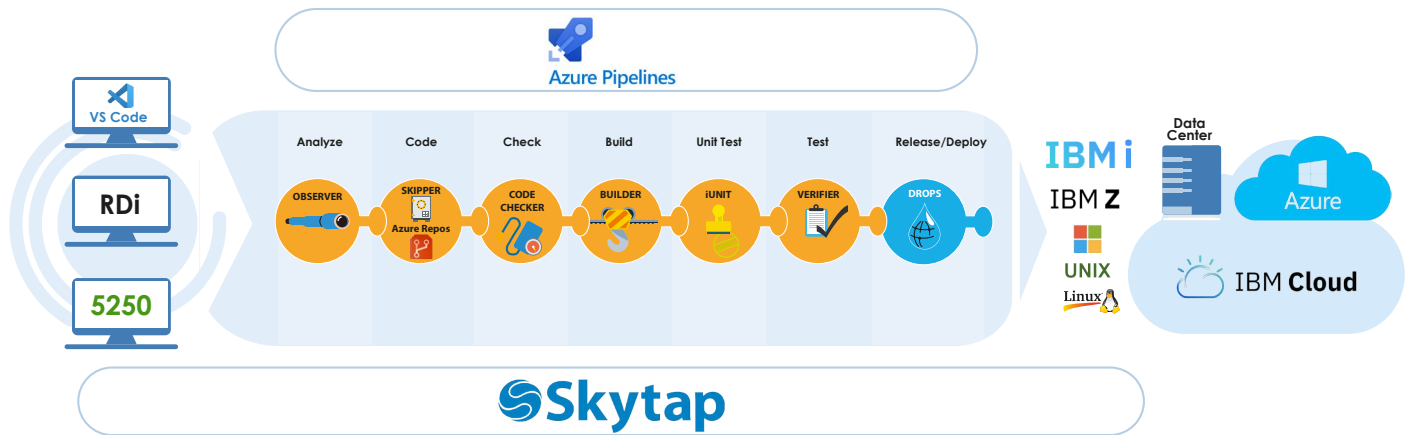
The ability to copy and template environments allows for quick deployment of complete applications, with no configuration required by IT. This allows teams to work at the pace of their own innovation.

**Continuous Delivery (CD):** Rapid provisioning of IBM i environments with automated tear-down and rollback-on-error using DROPS. One single solution to deploy to any environment – hybrid, cloud or on-premises – across any target platform IBM i, UNIX, Linux, Windows or z/OS.

## Application Modernization: Integrating legacy applications with cloud-native tools

ARCAD Transformer – Transform IBM i source code databases into modern languages

- Convert RPG or Synon CA 2E -> modern Free Form RPG
- Convert DDS -> DDL (SQL)
- Expand field size



## About Skytap

Skytap is a cloud service purpose-built to natively run traditional systems in Microsoft Azure and IBM Cloud. As the leading cloud service to support AIX, IBM i, and Linux on IBM Power together with x86, Skytap makes it easy to evolve specialized workloads by rapidly migrating them to the cloud. Enterprises around the world like IBM, Honeywell, CA Technologies, and Okta use Skytap for production workloads, disaster recovery, virtual labs for training, sales demos and POCs, and application development.

Skytap's cloud environment simplifies management, reduces IT costs, speeds up application development, and allows organizations of all sizes to modernize at the pace of their business.

## About ARCAD Software

ARCAD Software group is a leading international vendor of DevOps and Modernization solutions, supporting multiple platforms including IBM i, UNIX, Linux, Windows and z/OS.

Since 1992, ARCAD Software has built on its specialist IBM i expertise to develop an integrated and multi-platform solution range for DevSecOps on IBM i, IBM i Modernization, Release Management, and Test Data Management.

## Ready to modernize?

**Get started with zero risk. Find out more at https://www.arcadsoftware.com/arcad/ products/arcad-and-skytap-devops-for-ibm-i-in-the-cloud/.**

**Alternatively, email us at info@arcadsoftware.com to discuss your requirements with ARCAD's dedicated IBM i cloud experts today.**