



# zIrrus- Environment as a Service (EaaS) Solution for all Hybrid Cloud Orchestrations

## Business Challenge

IT teams across enterprises have been virtualizing servers and unifying their infrastructure in a cost-effective manner. This has led to use of multiple cloud platforms for various functionalities. With the increasing need for continuous delivery of applications and services for business profitability at a fast pace, the entire IT infrastructure space becomes complex and challenging.

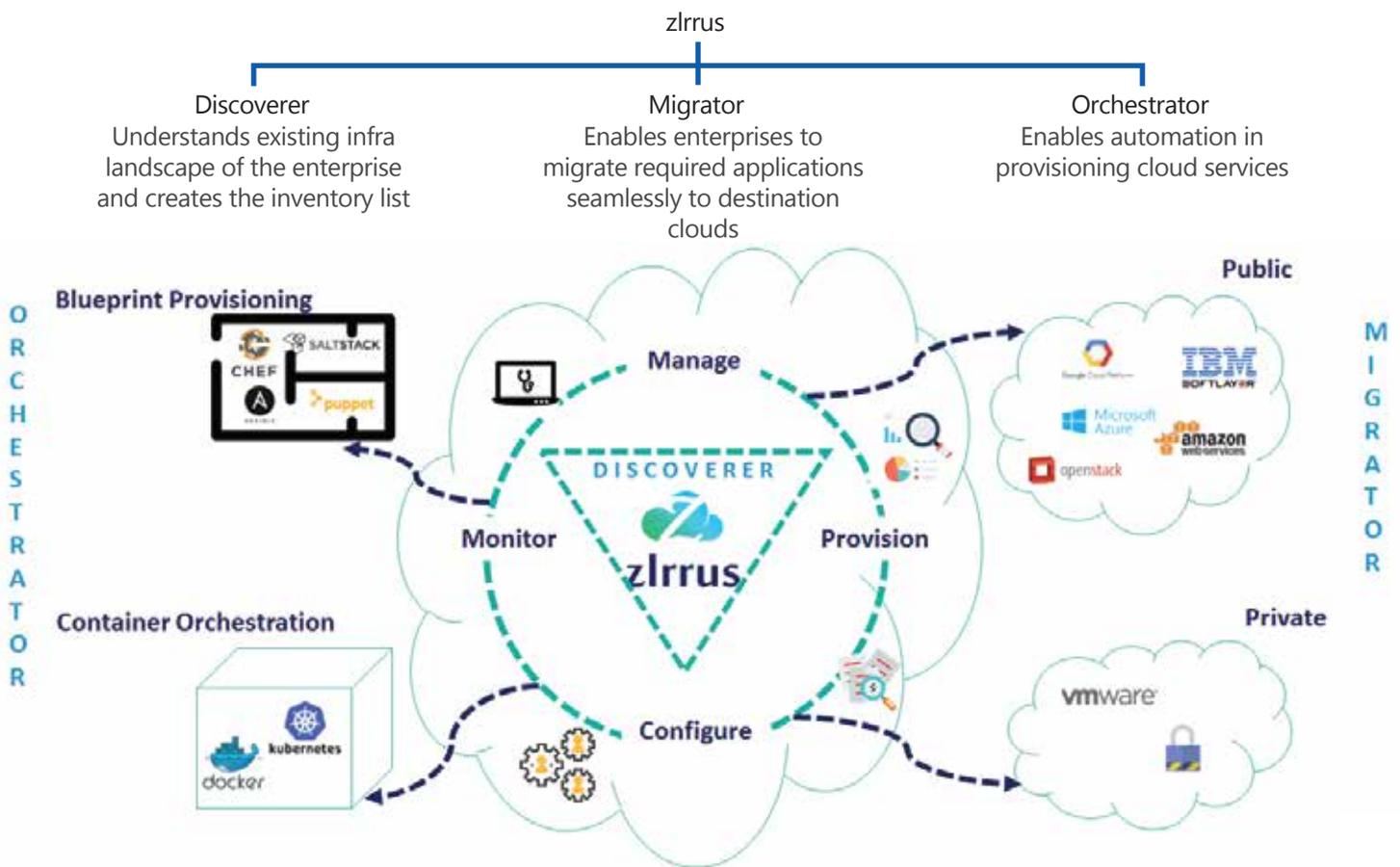
This calls for quicker provisioning for swift releases across various cloud platforms to get full benefits from cloud deployments by minimizing the risks involved in cloud migration and finally move towards SDI (S/W Defined Infrastructure) provisioning.

# zIrrus Solution

The zIrrus solution was designed to address these concerns by keeping growing business need in mind. zIrrus acts as IT enabler to establish itself as a robust, flexible tool making the infrastructure cloud agnostic. Its DevOps stack is the combination of **migrator** and **orchestrator** and helps in minimizing the risks of costs overruns, applications reworks and security issues by identifying existing infrastructure resources and automating DevOps journey based on the **discovery** results of the infra environment.

## Why zIrrus?

- Single orchestration solution for both public and private clouds
- Most cost effective orchestration solution
- Unified blueprint modeling
- Meta Data Management across various cloud platforms
- Automation of provisioning across multiple cloud platforms
- Cloud optimization with the zIrrus Management Console
- Discovery of existing infrastructure resources



zIrrus DevOps Stack
<ul style="list-style-type: none"> <li>• Hybrid cloud plugins</li> <li>• Blueprints provisioning module</li> <li>• Containers Orchestrator</li> <li>• Meta Data Management module</li> <li>• Discovery module</li> <li>• Reporting dashboards</li> <li>• Healing and scaling module</li> <li>• APIs (REST, and user defined)</li> </ul>

Benefits for Businesses
<ul style="list-style-type: none"> <li>• Heterogeneity</li> <li>• Business agility</li> <li>• Reduced IT support services</li> <li>• Ease of use</li> <li>• Easy management of cloud deployments</li> </ul>

## Hybrid Cloud Solution

zIrrus can work on 90% of the Cloud Platforms available in the market. The platforms include Microsoft Azure, Amazon AWS, VMware's vCloud and Google Compute, thus preventing vendor lock in.

## Single Click Provisioning

Provision VM to host databases, apps & app stack components or an environment with multiple servers to cloud/cloud combo in a simple and intuitive manner. zIrrus supports cloning of VMs or an environment seamlessly to any target cloud. zIrrus has rollback capabilities for unsuccessful deployments.

## Smart Management

zIrrus monitors the application based on the custom metrics. The reporting structures can give the up to date performance indicators in a customized dashboard. It also can react to monitored events with the appropriate corrective measures, using the console.

## Meta Data Management

zIrrus lets users define their own metadata tags in their blueprint to enable adding of any information that can be used for easy classification of blueprints / deployments for reusability and tracking purposes. Tags could be SDLC cycle, versions or environment.



## Blueprint Modeling

zIrrus automates users to move to cloud with simple YAML blueprints. These blueprints treat infrastructure as code. They will enable the automated app installation into the cloud. zIrrus has 100+ pre-built workflow templates that makes commissioning of new environment hassle free and fast.

## Robust APIs

zIrrus uses the light weight REST APIs. These REST APIs cover all Cloud Orchestration, Management functions and enable the integration with heterogeneous systems. Advanced developers can utilize the standards based Command Line Interface (CLI) or write their own REST client.

## Multi-tenant Users

zIrrus lets the admins define different roles and access for individual users. They can delegate responsibilities and access to different teams /individuals based on their roles. The integration of LDAP/AD with the manager can achieve this.

## Scaling and Healing

Decommission individual VMs or the environment from any cloud/cloud combo. zIrrus provides scaling, based on either custom or built-in monitoring metrics, allowing users to decide when to spin up few more instances or take down existing ones. It auto-heals crashed middleware or VMs while reconfiguring the app.

## zIrrus-Essentials to Know



Discovery Module

Gives

- Hardware configurations
- Infrastructure software inventory with version nos.
- Business application details
- Network devices



Apps Migrator

Does

- Packaging of applications
- Migration of applications into hybrid clouds
- Migration of data
- Configuration of DB and applications



Orchestration Engine

Drives

- Automation of processes
- Provisioning of applications
- Pre built templates
- Scaling and healing
- Cloud monitoring

# zIrrus User Experience

## Simplification

Lets users quickly and easily design and deploy scalable workflows that automate complex IT processes. Orchestration bundles individual tasks into optimized yet huge workflows. An orchestrated deployment of an application could include automated provisioning of multiple servers, databases, storage and networking.

## Control and visibility

The zIrrus orchestrator automatically monitors, modifies/spins down and alerts VM instances thus significantly reducing the number of man hours needed to manage the cloud. It shows users what is happening with the cloud resources and the various cloud processes.

## Streamlining deployment and management

Automation is enabled to users by helping users organize their cloud resources. It lets users adhere to these best practices with pre-built deployment templates and baked-in security with specific user roles.

## Architecture flexibility

zIrrus orchestrator automates operational and management tasks across both VMware and other infrastructure applications, such as the asset management systems and service desks

## High return on investment

zIrrus orchestrator automates the entire software development processes by helping in continuous integration, continuous testing and continuous deployment. This helps in dependency management and easily removes bottlenecks for fast paced software releasing thereby giving high returns on a minimal investment.

## About GAVS

GAVS Technologies (GAVS) is a global IT services & solutions provider enabling digital transformation through automation-led IT infrastructure solutions. Our offerings are powered by Smart Machines, DevOps & Predictive Analytics and aligned to improve user experience by 10X and reduce resource utilization by 40%.

GAVS has been recognized as a Cool Vendor by Gartner in 'Cool Vendors in ITSM 2.0, 2016' and positioned as 'Major Contender' in Everest Group PEAK Matrix™ for IT Infrastructure Automation, 2017. GAVS was also rated as a prominent India-based Remote Infrastructure Management player & one of the key small players serving the mid-market & enterprise clients in North America by Gartner.

For more information on how GAVS can help solve your business problems, write to [inquiry@gavstech.com](mailto:inquiry@gavstech.com).  
[www.gavstech.com](http://www.gavstech.com)

The logo for GAVS Technologies, featuring the letters 'GAVS' in a bold, white, sans-serif font against a dark blue background.