

CloudCenter™ with Chef

One-click deployment of application stacks across multiple clouds

CliQr CloudCenter™ is a cloud application management platform that simplifies the deployment and management of legacy application and modern cloud service stacks across more than 15 data center and cloud environments. With CliQr and Chef together, both Developers and IT Operations have confidence in the consistency and reliability of application services deployed across a wide variety of technologies and deployment environments.

Better Together

CloudCenter provides an abstraction layer that creates cloud-agnostic application deployment and gives Chef increased portability across cloud environments. CliQr CloudCenter brings extensive platform features that add enterprise-class lifecycle management and governance capabilities to an existing Chef deployment.

With CliQr you can model complex application and cloud service topologies for deployment to any supported environment, including Chef-configured and deployed nodes, CliQr-configured and deployed nodes, Docker containers, and various PaaS or IaaS public cloud services. CloudCenter offers the following features and benefits when used together with Chef:

Composite Topologies: Model application and service stacks using a wide variety of technologies, Docker containers, and public cloud services.

Orchestration: Deploy more generalized recipes and let CliQr manage firewall settings, port configuration, and other cloud environment-specific variations.

Governance: Utilize a comprehensive policy framework to guide automation during and after deployment, including auto-scaling nodes or stacks.

Day 2 Management: Manage post-provisioning application actions such as autoscaling nodes or stacks, cross-cloud migration, or end-of-life actions.

A Powerful Combination

Improved Portability: Chef recipes can pull replaceable, environment-specific parameters from CliQr, such as firewall rules, port IDs, and other cloud-specific commands.

Multi-Cloud DevOps: A Jenkins plug-in creates a powerful cross-cloud continuous integration and continuous deployment solution using existing Chef recipes.

Script Friendly: CloudCenter Manager is easy to use for those familiar with Chef scripting nomenclature.

Preserve Your Chef Investment: CloudCenter lets you leverage existing Chef recipes for extended control across lifecycle phases and more than 20 cloud environments.

Simple Integration: CloudCenter includes drag-and-drop application and service tiers, with simple configuration, automated connection to the Chef server, and automated Chef client deployment.



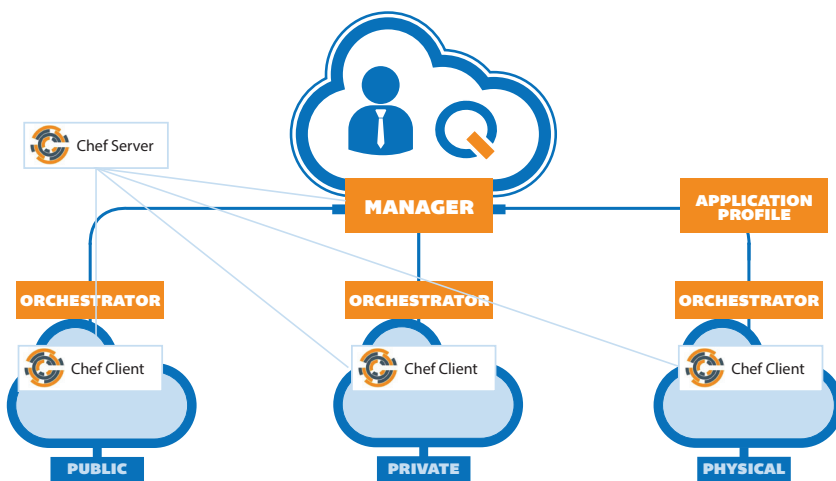
CloudCenter Architecture

CliQr includes a simple two-tier architecture that consists of CloudCenter Manager and CloudCenter Orchestrator. CloudCenter Manager is either SaaS or deployed locally and is used to model applications and configure Chef nodes. It offers a wide variety of enterprise-class user, management, governance, and lifecycle features.

CloudCenter Orchestrator is a multi-tenant manager that is easily deployed to each data center or cloud environment and abstracts cloud infrastructure management. The Orchestrator installs the Chef client at each node, connects to the Chef server, and then leaves application-tier installation and configuration to Chef.

CloudCenter and Chef Working Together

- 1. Model Application Stack:** Drag and drop from a palette of application components, application services, and cloud services to include chef nodes in a cloud-agnostic application profile.
- 2. Configure Chef Nodes:** Modify initialization scripts to identify the Chef server IP address, along with the recipe, role, and user ID and password for those nodes provisioned by Chef.
- 3. Publish the Application Stack:** Add to the application marketplace, with appropriate user access controls and usage policies.
- 4. Select the Cloud Environment:** The end user selects and deploys the published application, and also selects an available target cloud environment based on preset policies.
- 5. Orchestrate Resources:** CliQr's CloudCenter Orchestrator deploys appropriate VMs as well as network and storage resources in the target environment.
- 6. Chef Client Install:** For Chef nodes, CliQr will deploy the VM, install the CliQr agent, install the Chef client, and inject information about the Chef recipe and role.
- 7. Chef Client Run:** Chef handles deployment and configuration for all nodes under Chef control.
- 8. Additional Orchestration:** CliQr will further orchestrate configuration and deployment of nodes that aren't Chef controlled, including cloud services such as block storage or load balancing.
- 9. CliQr Ongoing Management:** Once deployed and configured, CliQr can auto-scale the entire stack or individual nodes, apply HA/DR across clouds, or migrate entire stacks to other clouds.
- 10. Chef Ongoing Management:** Chef nodes remain under Chef configuration control. CliQr end-of-life scripts can call the Chef server to post status updates.



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