



CloudShell Overview



Self-service automation platform for heterogeneous, multi-generational IT infrastructures and networks

CloudShell is a self-service automation platform for heterogeneous, multi-generational IT infrastructures and networks. It helps infrastructure and networking teams to deliver agile, end-to-end infrastructure to application delivery stakeholders including developers, testers, compliance and security engineers, and deployers.

CloudShell helps IT infrastructure and network teams achieve DevOps agility, while supporting:

- Legacy systems and stack
- Traditional datacenter and network environments
- Industry-specific IT components
- Software-Defined Networking
- Private and public clouds

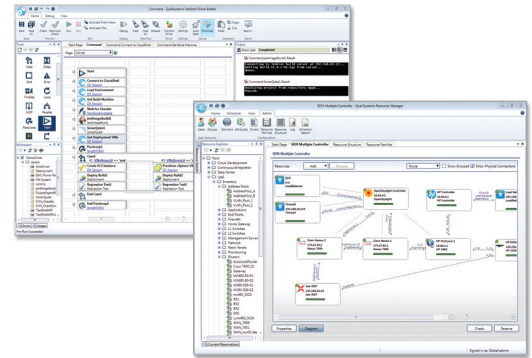




Make Any Infrastructure Agile

Graphically managed object libraries for resource inventory, provisioning and process tasks

- Scalable, distributed automation execution engine
- Visual environment design and workflow authoring tools



Evolve IT Infrastructure Self-Service

Challenges

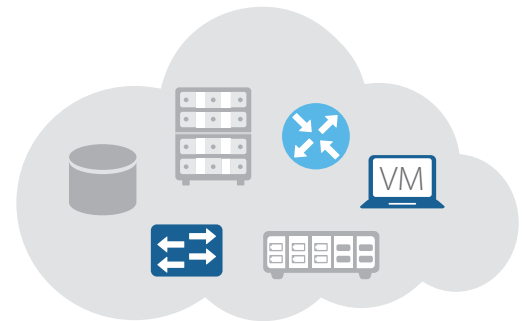
Today, IT infrastructure self-service lacks sufficient accountability & capacity management controls. As a result, data center & cloud costs skyrocket and user productivity can be constrained, impacting time to market and business agility.

Solution

CloudShell's combination of heterogeneous infrastructure orchestration, auto-provisioning and auto-reclamation maximizes utilization and delivers true cloud-like elasticity.

Heterogeneous Infrastructure

Legacy • Traditional • Virtual • Cloud



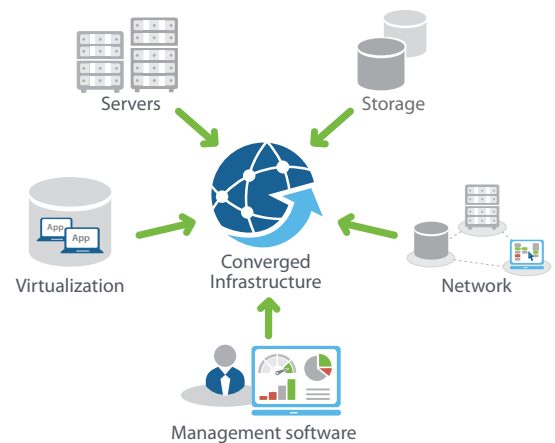
Data Center & Cloud Provisioning

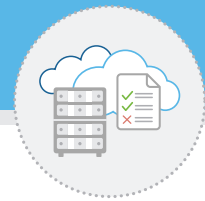
Challenges

Bare metal provisioning of complex data center, cloud & converged infrastructure stacks is time consuming and requires intimate, cross-domain expertise. As a result, time to value is delayed and costly errors are too common.

Solution

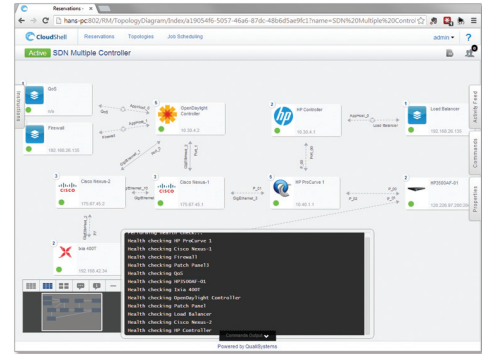
CloudShell simplifies data center provisioning by orchestrating complex resource sets accompanied by provisioning tasks in comprehensive workflows. Less experienced engineers can now execute provisioning process successfully and in less time, accelerating time to value for costly capital investments.





Web Self-Service Catalog

- Reservation & scheduling of full environments
- Auto-provisioning and auto-reclamation workflows
- Collaborative use of infrastructure environments
- One-click automated provisioning commands



Enable Continuous Integration

Challenges

Continuous Integration servers assume the presence of IT infrastructure, but when that infrastructure is complex, it becomes an obstacle to CI automation. As a result, engineering teams lose productivity and agility.

Solution

CloudShell's ability to automate heterogeneous infrastructure environments enables scaled cloud-like Continuous Integration over legacy, traditional, private



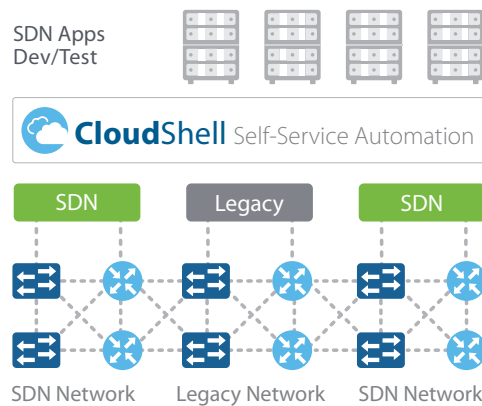
SDN Network DevOps

Challenges

SDN Changes the network service model from "simple pipes" to complex application stack. Network teams need to evolve to network DevOps practice in order to support agile service delivery cycles.

Solution

CloudShell provides a network-topology aware platform to orchestrate, provision and provide self-service to SDN and legacy network environments, enabling network DevOps processes.





About QualiSystems and TSI

QualiSystems is the leading provider of IT self-service, test lab and test automation solutions to enterprise, service providers, and technology vendors.

TSI is a 26 year old engineering software and services company providing innovative test and lab management solutions. TSI offers QualiSystems' test automation and device provisioning framework along with point tools for TDM, VOIP, and Wireless simulation and analysis. Our customers are in the telecom, datacom, DoD, and energy markets where device inter-operability, network quality, and cyber security (including NERC CIP compliance) are everyday requirements for doing business.

To learn more about how TSI and QualiSystems can help with cloud and infrastructure automation at your organization:

please visit our website at: <http://www.tsieda.com>
or contact us at sales@tsieda.com - (407) 339-4874

End to End Automation Platform



Comprehensive Automation Framework

- Resource management
- Heterogeneous environment design + workflow authoring
- Reporting and business intelligence
- Self service portal



Object library-based architecture

- Supports & enforces best practices
- Optimizes programming staff skills
- Achieves high ROI through ease of maintenance and scalability



Any-Stack Integration

- Key API integration libraries + open driver creation
- Freedom from vendor roadmaps, allows integration with legacy, home-grown components
- Overcomes interface silos



User-friendly GUI-based automation design

- Break open expertise bottlenecks
- Systematize knowledge, increase reusability
- Maximize total team productivity