Integrated Multicloud Management Using Existing Operational Resources and Know-How

Build a Multicloud Operation Environment from a Small Start and at Low Risk

In a rapidly changing business environment, in addition to the existing on-premises environment, the utilization of cloud services that are speedy and flexible is essential. Further, the types of cloud services continue to increase each year, and use of a multicloud environment that adopts the right services in the right places is becoming a matter of course. Meanwhile, system operation teams are facing the challenge of managing multicloud operation in addition to existing operational duties.

“Speed” and “mutual cooperation” as challenges in multicloud operation and management.

On-premises and cloud environments differ greatly in terms of the speed and the technical elements of operation. To develop agile systems, it is necessary to review methods of linking development and operations. Operation teams must continue to perform existing operational duties and address such issues with limited resources.

In particular, it is extremely burdensome to learn operational methods and operational know-how for management consoles that differ for each cloud and are updated frequently. In addition to resources to deal with incidents during a system failure and cost management, it may be necessary to newly consider security and control aspects.

Further, in enterprise systems, it is envisioned that backbone-types will use on-premises, and front types will use the cloud. Linkage of job schedules that straddle on-premises and the cloud will also become necessary.

“Gradual” change and “sharing of know-how” are keys to operational changes.

The operational team faces many issues, and to “suddenly” change operational processes and management methods will entail significant costs, and a high risk of operational errors etc. The key to improving operations is to utilize existing operational resources and know-how, and “gradually” move to cloud-type operations.

Further, there are many cases where development teams are leading on working with the cloud, and know-how unique to the cloud is likely to be held by a few people. To centrally collect and share know-how that differs for each cloud are also important points for operational personnel. By formalizing and aggressively using know-how, flexible operations and continuous improvements will become feasible.

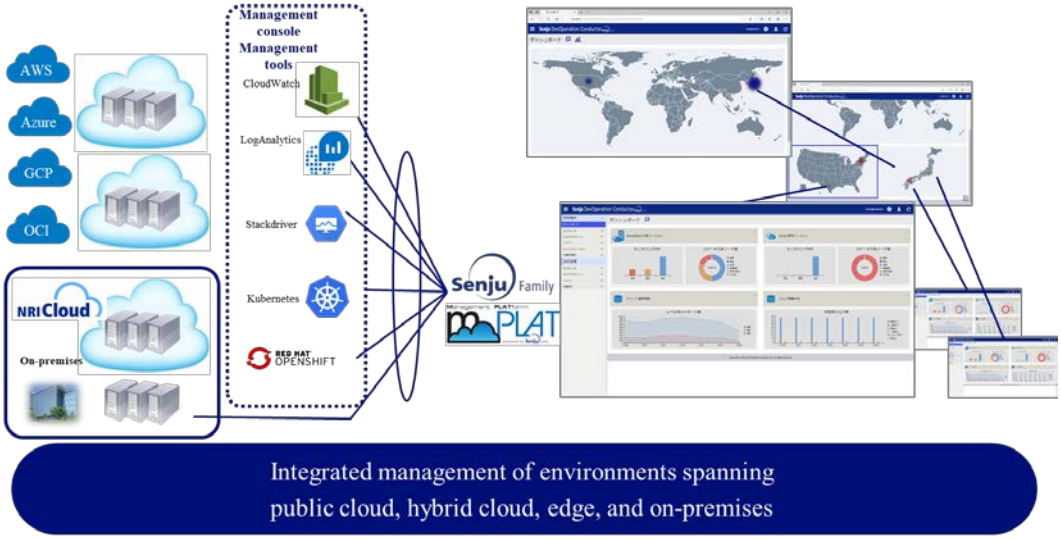

Fig. 1: Multicloud dashboard

Public cloud services (AWS, Azure, etc.) and on-premises infrastructure (HCI etc.) are integrated and visualized on the same dashboard to enable integrated management of service operation states and states of failures.

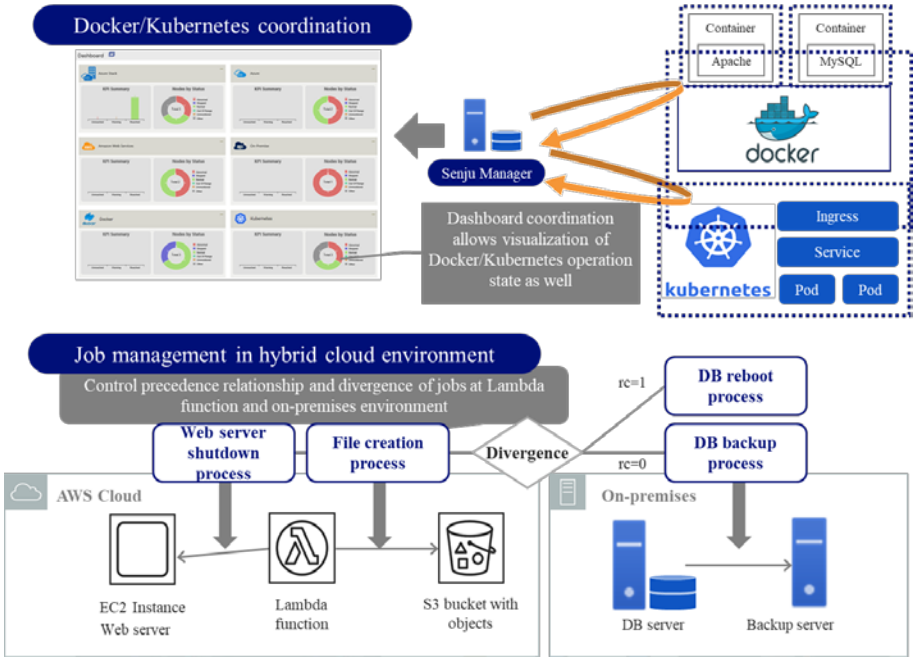

Fig. 2: Container and serverless integrated management
Container-related information gathering and serverless and on-premises job schedule coordination allow realization of seamless operation

Integrated management of the cloud and on-premises, including container and serverless

The Senju Family and mPLAT will solve such issues. They provide integrated management views by a “Multicloud dashboard” that absorbs differences in management services for each cloud and centrally visualizes operating conditions and failure status of services (Chart 1). They also collect information from container environments such as Docker and Kubernetes to visualize operating conditions. Further, by centrally managing the serverless environment and on-premises job schedules, seamless operations of the cloud and on-premises are realized (Chart 2).

Their greatest strength is that they achieve integrated multicloud management with low deployment hurdles at low risk because they allow continued use of existing operation resources and know-how for operating cloud management services. They further enable real-time ascertainment of the fee-charging state and KPI management by department, and contribute to improved productivity and optimization of operation costs.

Since users can easily start using cloud services, cost management and life-cycle management tend to be put on the back burner. But use of our services helps reduce waste such as in cases where the company continues to be charged despite a project having been completed.

Our services will allow you to incorporate new technology while continuing to utilize the operational know-how you already have, and allow you to eliminate revealed waste. Further, since they allow you to respond to changes flexibly by developing a multicloud operational environment with a small start and at low risk, they have the significant merit of contributing to your business’s competitiveness in addition to improving productivity.

Senju Family/mPLAT enable integrated management of on-premises and multicloud while accumulating operational know-how, and thus can be said to be the optimal choice for helping you differentiate yourself from the competition.

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