

IBM Federal Cloud Innovation Center



IBM Federal Cloud Innovation Center event “Building the Future on SoftLayer” (How to build and manage a hybrid cloud on SoftLayer)

Tuesday June 17, 2014, 8:00 AM - 12:00 PM noon
IBM, 600 14th Street, NW - 2nd Floor, Washington, D.C.

ABSTRACT

Federal agencies are adopting cloud infrastructures at a rapid pace. Many of the early adopters are discovering the benefits of implementing a hybrid cloud strategy. Hybrid clouds allow agencies to gain the cost benefits of a public or community cloud for the applications and data that are appropriate for those environments while utilizing a private cloud environment where the applications and data require the security of a private cloud. Additionally, it provides the scalability to expand the capacity of the private cloud as you need it. A hybrid cloud also allows agencies to leverage their existing IT investments. Building a hybrid cloud based on open standards provide the interoperability required to achieve the scalability and agility required in a dynamic cloud implementation.

SoftLayer, an IBM company, offers a global cloud platform and has a network of 18 data centers in the United States, Singapore and Amsterdam. IBM SoftLayer has a Federal Data Center located in Dallas, TX opening in June and another planned to open in Ashburn, VA.

IBM's SoftLayer provides three key benefits:

- The only infrastructure solution with a common management interface and API across a unified architecture
- Mix and match bare metal servers, virtual server instances, and turnkey private clouds can all be managed from a single control pane or API
- All are deployed on-demand and provisioned automatically in real-time.

Please join our host, Jane Snowdon, Chief Innovation Officer, US Federal, in a dialog of the key considerations involved in:

- standing up a hybrid cloud using a hypervisor,
- provisioning and continuously monitoring cloud services using IBM's Smart Cloud Orchestrator,
- future directions and innovations in software defined networking in data centers.

We look forward to exploring with you how the Federal Government can effectively engage the power of IBM offerings to deliver accelerated value and support the continuous optimization and delivery of your agency's mission.

Register for this no charge event at: <https://ibm.biz/BdRC6R>

AGENDA

Time	Topic
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8:00 AM	Arrival and Continental Breakfast
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8:30 AM	Welcome
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Jane Snowdon, Chief Innovation Officer, IBM US Federal

8:40 AM	Hybrid IT with IBM SoftLayer
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Dr. Khoa D. Huynh, Cloud Integration Architect, Advanced Cloud Innovation Center, IBM Global Technology Services

Enterprise IT operational expense is nearing 70% of the IT budget. CXOs are looking to public clouds as a way to reduce both CAPEX and OPEX IT spend. To capitalize on this "on-premise" IT spend erosion we need to look forward to hybrid solutions. Hybrid solutions can allow CXOs to target workloads at the cloud reducing cost and increasing competitiveness, and if done correctly, with no increase in complexity. In this session we will discuss how to extend on-premise critical infrastructure (compute, network, storage) to IBM's SoftLayer public cloud with bursting and static scenarios. VPNs, data migration, security, compliance, bare-metal, authentication, DR, etc... will be covered.

9:35 AM	Break
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9:50 AM	Using SmartCloud Orchestrator IaaS to Manage Hybrid Clouds
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Hong Kim, Cloud Solutions Architect, Strategy & Technology, Software Group, IBM US Federal

IBM SmartCloud Orchestrator (SCO) provides comprehensive IaaS cloud management that automates the delivery of cloud services. SCO manage the whole lifecycle of cloud service delivery, including patch management, compliance management, and software installation. SCO is based on the open standards OpenStack platform.

10:50 AM	Research – Networking – Using SDN in Data Centers
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Renato Recio, IBM Research, IBM Fellow & Software Defined Networking (SDN) CTO

Compute and storage virtualization have been around for decades. Provisioning and orchestration of virtual compute and storage resources has similarly been around using proprietary technologies for quite some time. Open Source community (Chef Recipes, Puppet Manifest and HOT formatted) compute pattern alternatives have more recently emerged to perform similar functions, some in simpler ways.

In the past, network virtualization has not stepped up to the virtualization game plate. Instead the network has remained tied down to physical constructs (physical VLANs, physical subnets, physical appliances that only protect what's physically beneath them, etc.). While there are manually painful approaches to "master the complexity", we believe optimal network virtualization demands a solution that "extracts simplicity" by using a new network virtualization model, and that realizes the complete pattern vision, including all the virtual appliances (e.g. Firewalls, Load Balancers) used between compute groups. We're driving the adoption of this new model through Open Source communities.

Key Discussion Points

- *How is networking evolving to meet the needs of cloud technologies?*
- *How does SDN fit into your cloud adoption model?*
- *What SDN technologies and skills are needed to address your cloud model?*

11:50 AM	Summary
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Jane Snowdon

12:00 PM	Adjourn
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Immediately following the event, individual meetings with our IBM Federal Chief Innovation Officer, IBM Federal Chief Technology Officer, IBM Distinguished Engineers, Research and Cloud Architects, as well as the presenters. are available. Please arrange through your IBM client representative.

To register for this no charge event, go to: <https://ibm.biz/BdRC6R>

Please contact us via email at fcic@us.ibm.com or by phone (703-861-6372 cell) if we can be of any assistance. Thank you.

Julie Bitzer
Cloud Program Strategy, IBM Federal

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Additional parking is available in the area. The closest is across F Street at the Willard & W Hotels.

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