

HPE Storage Nibbles* with Mauro (upper) and Chuck (lower): October, 2022

Welcome to the first installment of HPE Storage Nibbles with Mauro and Chuck. Today we are going to take a look at the bold new direction HPE is taking with “everything as a service” specifically as it applies to HPE Storage.

Our CEO Antonio Neri announced he wanted to move HPE to an as a service company back in 2017. Over the past 5 years we have been shifting our mindset to accomplish this massive task. All along keeping our valued, world class products available as data center infrastructure products.

Introducing the GreenLake Cloud Platform (GLCP). The GLCP is a control plane where customers can manage their infrastructure with the same cloud experience and operational model that exists in the Public cloud.

HPE-BHLAB

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The GLCP is the entry point or gateway into your experience as an on-premises hyper-scaler cloud.

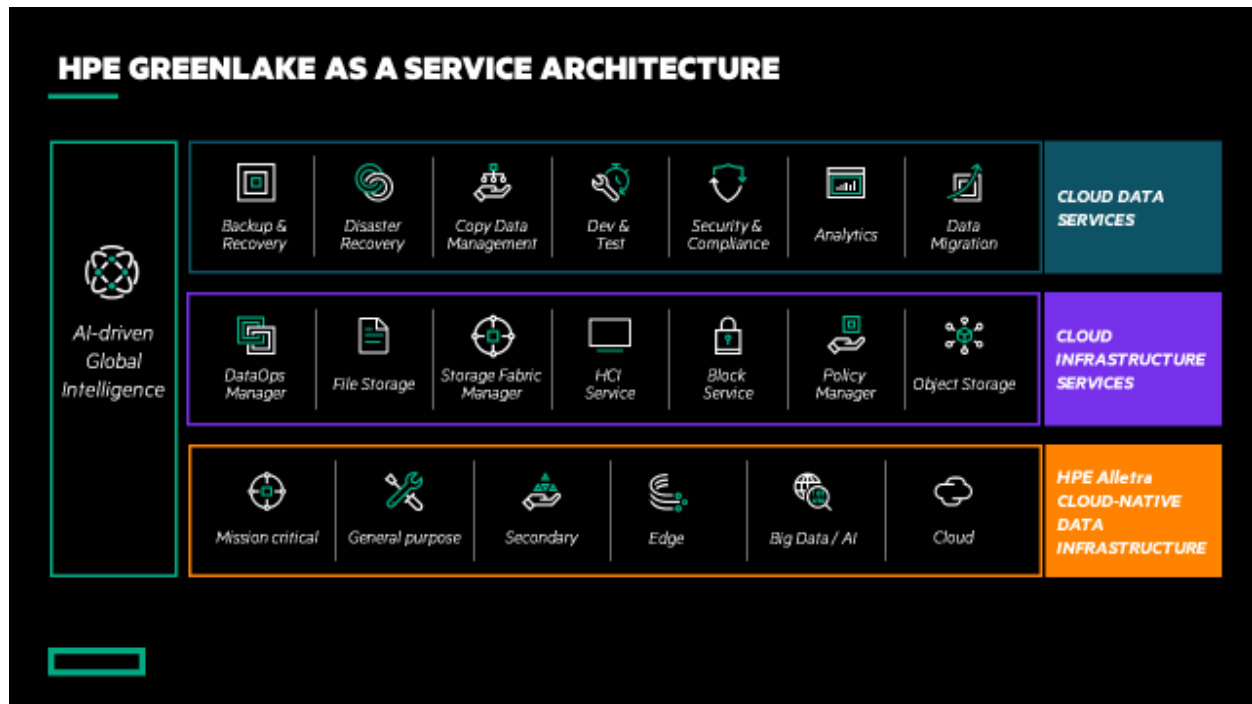
From the GLCP you can navigate into your on-premises infrastructure from HPE. Compute, Storage and Aruba Networking all in one place for your management and infrastructure needs.

*Nibble is the equivalent of half a byte. Starting with the most significant (MS) bit in the upper nibble or the least significant (LS) bit in the lower nibble (Science is fun). Since funding is tight around the globe we could not secure enough of it for a full byte.

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Who wants cake?

Three layer cake to be specific. The GreenLake architecture is built using the following model.



At the bottom layer is our Physical infrastructure components. Storage systems, Alletra, Primera, Nimble, dHCI, and other platforms reside here.

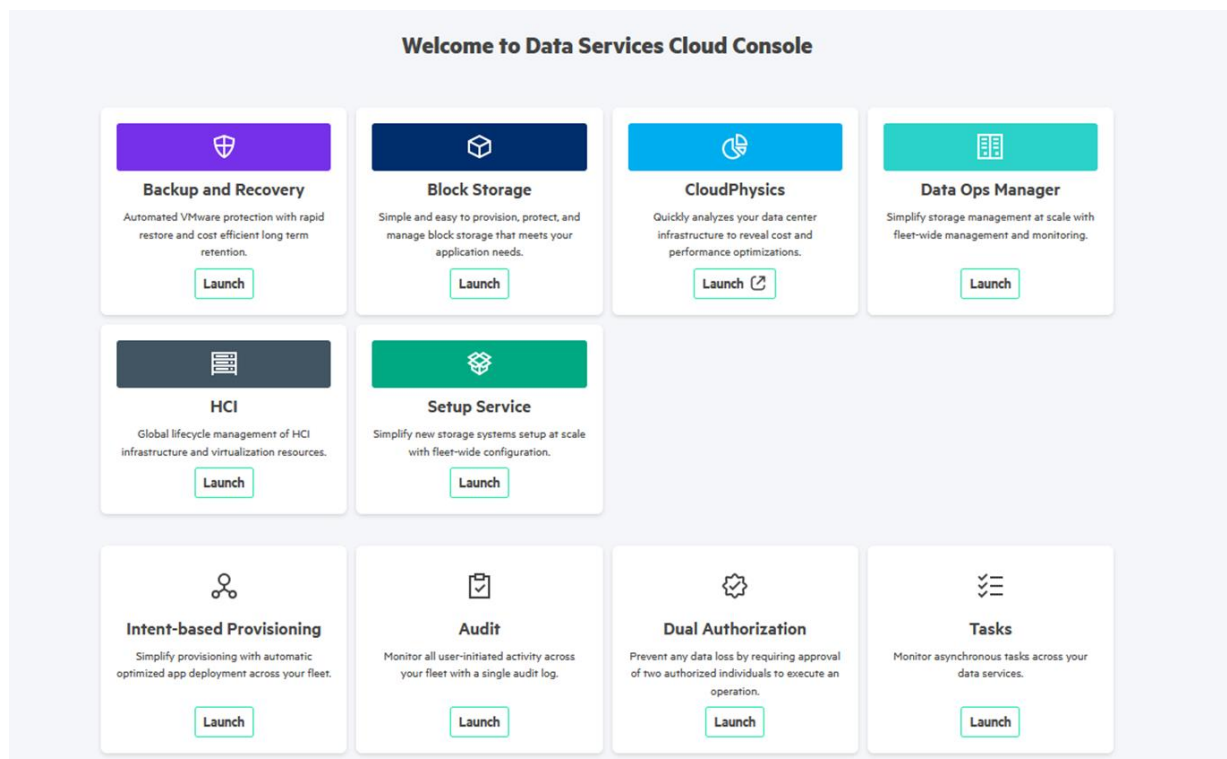
In Middle layer we have the Cloud Infrastructure Services. These services provide automation and orchestration that shift focus from how to operate the physical infrastructure to how to consume and manage everything as a service regardless of where the HW is located. In other words the infrastructure services layer abstracts the architectural differences of the underlined HW to make every service applicable to every piece of HW.

Lastly, the top cake layer is called Cloud Data Services. This is the data service layer. These are services which provide deep application integration, Backup & Recovery as well as DR which allows customer to consume and protect infrastructure based on workloads and needs.

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In this session we are going to focus on the HPE Storage console otherwise known as the Data Services Cloud Console or the DSCC.



The HPE Data Services Cloud Console (DSCC)

The DSCC is the entry point for all things HPE Storage. HPE is utilizing the CI/CD (Continuous Integration / Continuous Delivery) method (you may have heard it called DevOps) for release delivery in the DSCC. As we continue to build out and release services the DSCC will be updated when things are 'code ready' and not on a specific release schedule.

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Big-Endian Binary Byte							
MSbit							LSbit
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As of this writing the available services are:

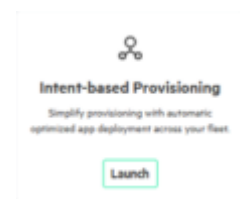
Backup and Recovery Service, Block Storage, Data Ops Manager, CloudPhysics, Intent Based Provisioning and coming soon HCI manager.

I would like to take a quick peek into one of the services that are currently available within the DSCC.

Data Ops Manager:

I know you are wondering what a Data Ops Manager is. Well you came to the right place my friend. The Data Ops Manager is a simple out of the box experience that automatically discovers, acquires and configures your HPE Alletra (5K, 6K and 9K), Primera and Nimble storage arrays. Your entire fleet in a single place.

One of the groundbreaking features is the Intent based provisioning.



The easy part is to create volumes, the hard part is where to create them in your fleet. Which array has the resources for not just capacity but to meet your overall SLA for that workload AND, AND the real hard part... How do I keep my resources efficient over time? HPE now understands workload patterns and data utilization across your fleet AND, AND across the install base. Provisioning storage has finally relocated from Spreadsheet Row into a luxury high-rise, with pool and concierge.

I get it, every vendor can provision storage with minimal steps. While that may be true, the hard part is figuring out where storage for your application should actually be deployed. What system has the performance head room? What system can deliver the right

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availability? And of course, how do I keep all my resources optimized and efficient? As you can imagine, this only gets harder and harder as you scale so ultimately without something like the DSCC, you end up back in Spreadsheet row, so sad.

Creating volumes is as simple as completing a few fields and attaching to the proper systems. You select the workload and we figure out the correct place in your fleet to put the workload.

Example of creating a volume using Intent based provisioning.

Remember we are not trying to create yet another storage box or mousetrap. We are trying to elevate the overall storage management experience to a luxury high-rise.

In the next session we will unpack the details behind a few more of the available services in the DSCC:

- HPE GreenLake Backup and Recovery Service
- HPE GreenLake for Block Service

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About the Authors:

Back when the T-Ironsaurus-Rex ruled the datacenter and memory was measured in Kilobytes (up to 8192k in this baby shown here)



Chuck Hooke (some call him “The Captain”) somehow got his hands on an NCR tower running ATT system V R3 UNIX (yes kids that is a 5 ¼” floppy drive) and thus began the affair with the beast within.

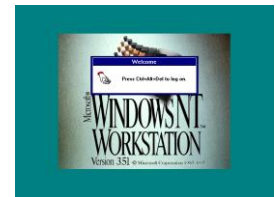
I have been at HP / HPE for 25 years in numerous positions. I spent my first 10 years in the call center on the mission critical HPUX recovery team, then the next 7 years out in field delivery and the last 8 years in pre-sales. Currently, I consider myself a technology evangelist with the worldwide channels and ecosystems team bringing the goodness of HPE products and services to the channel.

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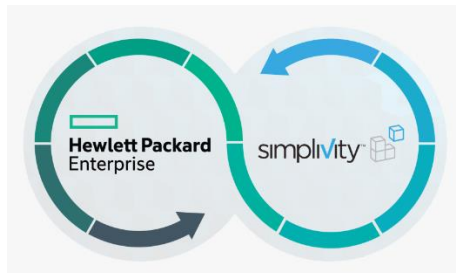
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Mauro Bassani started his career in a time when products like this (Windows NT (Not Today)) existed



However things got real exciting when hardware became virtualized using this great technology:

Mauro worked for great Startups and big Vendors alike, and that is how my love affair with HPE started, through an acquisition



I am now a Technology Evangelist for HPE Storage and HCI solutions in the worldwide Channels and Ecosystems team (even if I secretly want to be a spy from a John Le Carre' book).



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