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Elevate Your Cloud Experience: HPE GreenLake for Private Cloud Business Edition



Intro

HPE GreenLake		0 %
Data Services Cloud Console Private Cloud Business Edition 🐱		Q @ (A)
≡ Dashboard		
Summary 100 Private Cloud WHs Q 4 Virtual Machiner 6 Public Cloud WHs Systems Systems	Capacity Player Information VMs Systems About Brighticole Percentage full	HPE GreenLake for Backup and Recovery Protection
Systems Utilization	87 10 0 3 less than 50% 51%-85% 86%-95% 96%-100%	Protected 54 Unprotected 39
300% 733 60% 235 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	DE-TestVM-2023. Private Cloud 421 6.74 GB of 16.00 GB DE-TestVM-Cent. Private Cloud 311 5.03 GB of 16.00 GB DE-TestVM-Cent. Private Cloud 312 5.02 GB of 16.00 GB DE-TestVM-Cent. Private Cloud 301 4.97 GB of 16.00 GB DE-TestVM-Cent. Private Cloud 301 4.97 GB of 16.00 GB DE-TestVM-Cent. Private Cloud 301 4.96 GB of 16.00 GB DE-TestVM-234. Private Cloud 392 4.75 GB of 16.00 GB DE-TestVM1234. Private Cloud 392 4.46 GB of 16.00 GB DE-TestVM1234. Private Cloud 392 4.46 GB of 16.00 GB Verside Private Cloud 292 4.46 GB of 16.00 GB Customer_demo. Private Cloud 282 4.60 GB of 16.00 GB Customer_demo. Private Cloud 282 4.60 GB of 16.00 GB	Configuration Checks
Under Uhitzed Proper Unitized Over Uhitzed Over Uhitzed Size = Number of VMs in a System	View All	rtp-stra172-grp #
Top VMs. Recent VMs		
6.6 K Total IO RPT-PSG-Clutter1 Private Cloud	3.12 ms Average Latency BUG Remote PSG Private Cloud	Subscription and Usage

In June 2020, Hewlett Packard Enterprise announced the release of HPE GreenLake Cloud Services to bridge the gap for hybrid and multi-cloud enterprises. This year, they have expanded that offering even further with HPE GreenLake for Private Cloud Business Edition. Offering even greater flexibility and options, HPE GreenLake for Private Cloud Business Edition provides enterprises with a highly tailored and efficient experience in choosing the infrastructure and capacity to fit their business needs.





This unique experience and offering makes HPE GreenLake more attractive as a hybrid cloud infrastructure option than the more ubiquitous cloud offerings, such as Amazon Web Services and Azure. It is specially designed for businesses seeking the agility of cloud consumption models combined with the control of on-premises infrastructure. It offers simplified deployment with predefined configurations, allowing for quicker setup and reduced complexity. Given its optimization for specific workloads, businesses can ensure performance efficiency without the overhead of managing a vast array of services often present in large public clouds. Additionally, for enterprises concerned with data sovereignty, regulatory compliance, or specific security postures, the Business Edition provides the advantage of data locality and heightened control over their environment.

In short, HPE GreenLake for Private Cloud Business Edition is a self-managed private cloud solution with a unified interface to simplify VM to infrastructure management. It allows you to build your self-service cloud on demand where you need it, with a choice of predictable monthly billing or upfront payment.





Infrastructure

To start with HPE GreenLake Private Cloud Business Edition, users must first provision hardware to build their private cloud. For on-premises, HPE primarily utilizes cloud-native infrastructure comprised of HPE Alletra disaggregated HyperConverged Infrastructure (dHCI) for business-critical workloads or HPE SimpliVity (true HCI) for distributed-edge sites. It provides enterprises with a complete private cloud package, keeping with the HPE GreenLake concept of flexibility for organizations with varying workloads.

HPE has partnered with Amazon Web Services to supplement their on-premise offering to utilize their EC2 instances as the Public Cloud segment. Combining these two solutions allows HPE GreenLake to present a unified hybrid cloud to enterprises looking for the right solution to fit their needs.

Once you have provisioned the hardware and prepared the cloud configuration via Amazon Web Services, you can begin provisioning virtual machines, policies, backups, health checks, and any other myriad of services HPE GreenLake offers.





HPE SimpliVity

For a quick refresher on HPE SimpliVity and an update on its capabilities, it is a true HyperConverged Infrastructure (HCI) appliance that combines all the primary features and services necessary for server functionality (like computing, networking, and storage) into one big box. It significantly improves data efficiency and security along with built-in resiliency.



Previously, it was accessible and managed via a centralized portal. With the introduction of HPE GreenLake Private Cloud Business Enterprise, HPE SimpliVity can be managed within the HPE GreenLake platform.



Within HPE GreenLake, the accessibility of an HPE SimpliVity system versus an HPE Alletra system is displayed in a common view. It is within the Systems portal and is only delineated by the system type.

Systems							
C +	un Arschadt Ion Saffri ans Upd	ates Software Locate Re	i Silden Heel ^{re} Orebe	Feinest Seith er	1 55015		
							Sur
Name	the State	Hypervisor Clusters	System Type	VM Count	Health	Storage Us	age
brs-dhci-02	• Online	dHCI-Remote-CL1	dHCI	10	Ok	0%	66.51 GiB of 11.21 TiB
BRS-Local	Online	BRS-Local	SimpliVity	3	Ok	0%	351.92 GiB of 1.18 PiB
Ttp-afa171-grp	Online	2	dHCI	96	Ok	10% -	3.14 TiB of 29.56 TiB
-			100	71	01-	09/	





Virtual Machine Provisioning Policies

Virtual Machine Provisioning Policies are critical to a successful overall hybrid deployment strategy. To access the VM Provisioning Policy portal, select the horizontal bars menu button on the top left to open the list of options to access portals. From there, choose VM Provisioning Policies, which will open the main page of all the policies currently available in your environment.

Data Services Cloud Console | Private Cloud Business Edition ~





To create a new VM Provisioning Profile, click the "+" icon in the top left, and a window will open to allow you to begin filling out the required information. You will need to name the profile and provide a basic description. Select the appropriate radio button for Deduplication, Data Encryption Cipher, or All-Flash if these are the options you need. Hovering your cursor over the information icon to the right of each option provides additional information about what these options are used for. Finally, you can leave the QoS Performance settings as their default of the one million IOPS Limit or adjust them to fit the environment.

۲	0	0
General	Protection Policy	Summary
* Name		I
SR-VM-ProvPolicy01		
Description		
Test Provisioning Policy		
Deduplication 🗉		
Data encryption cipher 💷		
<u> </u>		
Cancel		Back



General	Protection Policy	Summary
Deduplication		
Data encryption cipher		
All-Flash		
QoS Performance Traffir between VM and	Storage Array	
*MB/climit */ODS/	and ge ning a	
- Mb/s Limit	mit	
Cancel		Baclu Next
·		
0		
General	Protection Policy	Summary
elect Protection Policy (optional)		
elect Protection Policy (optional)		
elect Protection Policy (optional) ADMG-Nashville-DemoStor	ADMG-Nashville-Policy	Array-Hourly-Snap
elect Protection Policy (optional) ADMG-Nashville-DemoStor Policy-type User defined	ADMG-Nashville-Policy Policy type User defined	Array-Hourly-Snap Policy type User defined
elect Protection Policy (optional) ADMG-Nashville-DemoStor Policy type User defined Used by 1 resources	ADMG-Nashville-Policy Policy type User defined Used by 7 resources Assigned Yes	Array-Hourly-Snap Policy:type User defined Used by Or resources
elect Protection Policy (optional) ADMG-Nashville-DemoStor Policy-type User defined Used by 1 resources Assigned Yes Shapshot every 4	ADMG-Nashville-Policy Policy type User defined Used by 7 resources Assigned Yes Snapshot every ó Backup	Array-Hourly-Snap Policy.type User defined Used by O resources Assigned No Snapshot every.4
elect Protection Policy (optional) ADMG-Nashville-DemoStor Policy type User defined Used by 1 resources Assigned Yes Snapshot every 4 Backup 1	ADMG-Nashville-Policy Policy/type User defined Used by 7 resources Assigned Yes Snapshot every ô Backup Backup Cloud Backup	Array-Hourly-Snap Policy type User defined Used by O resources Assigned No Snapshot every 4
elect Protection Policy (optional) ADMG-Nashville-DemoStor Policy-type User defined Used by 1 resources Assigned Yes Snapshot every 4 Backup Cloud Backup	ADMG-Nashville-Policy Policy type User defined Used by 7 resources Assigned Yes Snapshot every ó Backup Backup Cloud Backup Cloud Backup Cloud Backup	Array-Hourly-Snap Policy type User defined Used by O resources Assigned No Snapshot every 4
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ADMG-Nashville-DemoStor Policy-type User defined Used by 1 resources Assigned Yes Snapshot every 4 Backup Cloud Backup Don't like the recommendations? View	ADMG-Nashville-Policv Policy type User defined Used by 7 resources Assigned Yes Snapshot every ô Backup Backup Cloud Backup Cloud Backup Cloud Backup	Array-Hourly-Snap Polloy type User defined Used by O resources Assigned No Snapshot every 4
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ADMG-Nashville-DemoStor Policy type User defined Used by 1 resources Assigned Yes Snapshot every 4 Backup Cloud Backup Don't like the recommendations? View	ADMG-Nashville-Policv Policy type User defined Used by 7 resources Assigned Yes Snapshot every ó Backup Backup Cloud Backup Cloud Backup	Array-Hourly-Snap Policy type User defined Used by O resources Assigned No Snapshot every 4



	Ø—		
	General	Protection Policy	Summary
General	Name	SR-VM-ProvPolicy01	
	Description	Test Provisioning Policy	
	Deduplication	Disabled	
	All-Flash	No	
	Data Encryption	None	
	IOPS Limit	1000000	
	MB/s Limit	1000000	
Cancel			Back Create



Monitoring Virtual Machines

Once you have created a Provisioning Policy, return to the Virtual Machines page to create the desired instances.

In the top menu, you can view your Private (physical) Cloud VMs or the Public Cloud VMs (AWS).

Virtual I	lachines				
					G
rivate Cloud VMs	Public Cloud VMs				
C + X	Migrate Power On	Power Off	Report Shu	ndown Reset	Import

The main page gives you a brief view of the VMs in your environment and other fundamental data about them, including status and data protection details. You can sort them by any of the characteristics listed and even have the option to view their current performance and utilization statistics from buttons on the right-hand side.

				Q 7
		Summary	Performance	Utilization
Storage				
10% -	9.77 GiB of 90.00 GiB			
0%	15.00 MiB of 12.00 GiB			

The Public Cloud view is no different other than it does not have as much information to display due to the lack of physical hardware needed to monitor.



Creating a Virtual Machine – Private Cloud

To create a new Virtual Machine, click the (+) icon in the top left corner to bring the creation window front and center.

The first section is the General information: VM Names, Number of VMs, and if you want them powered on after creation.

•					
General	Hypervisor Cluster	Target Datastore	OS Template	Policy	Summary
Number of VMs					
1		\$			
VM Name					
1SP-Tect\/M					
151(105141)					
A suffix is added to th	e VM Name starting from 1 (fo	r example, VMName_1, VMI	Name_2)		
	created				
	clealed				
				_	
Cancel					Back Next





In the next section, select the Hypervisor cluster where these VMs will be created. You can choose either HPE SimpliVity or HPE Alletra dHCI clusters.

		and the top of				
lect Target Hyperv	isor Cluster					
C						9 8
					Utilization	
Name	1 Status	Datacenter	System	CPU	Memory	Storage
O Alletra-dHCI- Clst-01		Alletra-dHCI- DC-02	rtp-afa171-grp		5	
Alletra-dHCI- Clst-02		Alietra-dHCI- DC-02	rtp-grp-af203	1	1	

In Section 3, choose the Target Datastore.

	HPE-V	/MFS-CL02-DS01	HPE-VVOL	L-266a419fe6fb535	HP	E-VVOLx-DS02	
	Name	HPE-VMFS-CL02-DS01	Name	HPE-VVOL-266a419fe	Name	HPE-VVOLx-DS02	
ę	Hypervisor Cluster	Alletra-dHCI-Clst-02	Hypervisor Cluster	Alletra-dHCI-Clst-02	Hypervisor Cluster	Alletra-dHCI-Clst-02	2
	Type	VMFS	Type	VVOL	Type	VVOL.	
	Usage	24%	Usage	0%	Usage	2%	



Next, select your desired Operating System template.

Ger) ieral H	ypervisor Cluster	Target Datastore	OS Template	Policy	/	Summary
ect Oper	ating System Te	emplate					
		405 01/5	Destru	Linux 0.7	WIN	2014 015	
	Cen	ITUS-UVF	носку	Linux 8.7	WIN	2010-0VF	
X	Library	HPE-PCBE- Images	Library	Imported as an o HPE-PCBE- Images	Library	HPE-PCBE- Images	7
Don't	like the recomm	nendations? View A	II Template Items			Back	Her
Garreer		- ©	0	0			
Gen	eral Hy	ypervisor Cluster	Target Datastore	OS Template	Policy	,	Summary
Gen Gen	eral Hy	ypervisor Cluster	Target Datastore	OS Template	Policy	,	Summary
Gen Gen	eral Hy y (preconfigure ADMG-Nas	ypervisor Cluster d storage attributes) hville-HCI-Policy	Target Datastore	OS Template	Policy AllFlash-Dec	dup-Encrypted	Summary
Gen	ADMG-Nas Declaphication All Flash Encryption Protection Policy	ypervisor Cluster d storage attributes) hville-HCI-Policy Yes Yes Yes ADMG-Nashville	Carget Datastore	OS Template stPol12345 Yes Yes RTP-Cluster1-Lo	Policy Policy AllFlash-Dec Deduptication All Flash Encryption Protection Policy	dup-Encrypted Yes Yes Yes DE-LocalSnap	Summary
Gen ect Polic	eral Hy y (preconfigured ADMG-Nas Deduplication All Flash Encryption Protection Policy Nike the recomm	ypervisor Cluster d storage attributes) hville-HCI-Policy Yes Yes Yes ADMG-Nashville	Target Datastore	OS Template stPol12345 Yes Yes Yes RTP-Cluster1-Lo	Deduptication AllFlash-Dec Deduptication All Flash Encryption Protection Policy	dup-Encrypted Yes Yes Yes DE-LocalSnap	Summary
Gen ect Polic	eral Hy y (preconfigured ADMG-Nasi Deduplication All Flash Encryption Protection Policy Jike the recomm	ypervisor Cluster d storage attributes) hville-HCI-Policy Yes Yes ADMG-Nashville	Target Datastore	OS Template stPol12345 Yes Yes RTP-Cluster1-Lo	Deduptication AllFlash-Dec Deduptication All Flash Encryption Protection Policy	dup-Encrypted Yes Yes Yes DE-LocalSnap	Summary

Finally, the Virtual Machine Provisioning Policy specifies the enterprise-class protection policy for data protection and leverages HPE GreenLake for Backup and Recovery.

Once all the various options and configurations have been selected, click Create to submit the VM for creation to your infrastructure stack.

VM Name 1SR-TestVM Power on VMs No created System rtp-grp-af203	
Power on VMs No created System rtp-grp-af203	
System rtp-grp-af203	
Hypervisor Cluster Alletra-dHCI-Clst-02	
Target Datastore HPE-VVOL-266a419fe6fb5358b9b02e7822510a69	
Template WIN2016-OVF	
Policy ANewTestPol12345	

You can also check on the VM's provision status at the bottom, which will also bring up a window to see the current and pending tasks along with the status and a brief, basic log output from the process.

Creating a Virtual Machine – Public Cloud

Creating a VM in the Public Cloud is as easy as creating one in the Private Cloud. Click the (+) icon to bring up the creation options window. On the first page are the initial VM options:

- VM Name
- Service Provider (for this review, we tested AWS; Azure is also available)
- · Account Nickname The AWS Account to which this will be attached
- Region
- Key Pair Name AWS will associate this name with the Public Key generated

Image	Instance Type	Summary
		1
~		
Ŷ		
~		
		Bark
	Image V	Image Instance Type



After entering the basic information, the following screen will present over 2200 images to select for your Virtual Machine instance.

Image	Instance Type	Summary
Provided by Red Hat, Inc.	available	AWS
Provided by Red Hat, Inc.	available	AWS
		1-10 6f 2229
	Image Provided by Red Hat, Inc, Provided by Red Hat, Inc,	Instance Type Image Instance Type Provided by Red Hat, Inc, available Provided by Red Hat, Inc, available





The final screen is to choose the instance type. The options listed are size, architecture, and if it is available in the AWS Free Tier.

⊘				
General	Image	Instance Type	Summary	ý
Select a Machine Instance Type				
C				Q 7
Instance Type	↑↓ Architecture	2	Free Tier Eligible	
O c4.2xlarge	x86_64		No	
O c4.4xlarge	x86_64		No	
O c4.8xlarge	x86_64		No	
Cancel			Back	Next

Like the Private Cloud, while the virtual machines are provisioning, you can view the status and all essential log messages generated during the process.





Systems Update

The Systems Update feature allows administrators to non-disruptively update the HPE Alletra Storage Array, ESXi, and server firmware versions for an entire cluster. These updates are executed in the Systems section of the Management Console.

Systems						
Name	 Hypervisor Clusters 	Updated On	Current			
brs-dho-02	dHCI-Remote-CL1		UNAVAILABLE			
BRS-Local	BRS-Local					
rtp-afa171-grp	3					

From that section of the Management Console, click on the Software button in the right corner of the Systems list to view software catalogs currently installed in the stack and the available catalog to be updated within the stack.

A catalog contains specific Array OS, ESXi, HPE Storage Connection Manager, and Service Pack for ProLiant versions. Individual versions inside the catalog are visible by hovering over the displayed catalog version number in the row of the stack you are looking into.

To begin the upgrade process, select the cluster you want to upgrade and click Run Precheck, or drill down into that system and select Run Precheck from the actions menu. Then, select the destination catalog version to which you want to upgrade the cluster stack.

Once the upgrade begins, it will run through an extensive set of pre-checks to ensure it is prepared and that the upgrade will not cause damage or data loss to the system.

Once complete, you will receive a notification, and the Software Main View will also update its appearance to reflect the changes.



Health Checks

ta Services Cloud Console Private Cl	oud Business Edition 🗠							Q 🗉 (8
E Systems / rtp-grp-af203								Actions ~
apacity 9% CPU used	Virtualization Storage	HPE GreenLake for Backup and Recovery	9% VMFS VMs	System	@ 4 Detweteres	風 77 Virtual Mach	00	Migrate Run Thistien, Lies Software Update Software Update Run System Health Checks
VMs Datactories Clucters Se	nvere Storage Nétwork						Related I	Add Mypersener Chaine
G + X [Mare] Mareo]						y v	State	Online
Name	Status Power State	Protection Policy	Hypervisor Cluster	Datastores	Type		Center	http://
ISR-TestVM	Status Power State Off	RTP:Cluster1-LocatShap-PSG- Cloud.	Alletra-dHCI-Clst-02	Datastores HPE-VVOL-266a619fe6fb535_	Type VVOL	_	vCenter Hypervisio	htte- voerser2.rtplab.temblestorage. com Alletra-dHCI-Clat-02
SIR-TestVM CloudPhysics-Observer	Status Power State Off On	Providion Policy RTP-Cluster 1-LocalShap-PSG- Cloud	Hypervisor Cluster Alletra-dHCI-Clst-02 Alletra-dHCI-Clst-02	Detastores HPE-VV0L-266a619fe6fb535_ HPE-VV0L-266a619fe6fb535_	VVOL VVOL		vCenter Hypervisio Dusters System Typ	ntua- voener2.rtslab.smblestorage. com Alletra-dHCI-Clas-02 (Madmum liwit - 8) = dHD
CoudPhysics Observer CoudPhysics Observer CoudPhysics Observer CoE-Test/VM-CentOS-202309701354	Status Power State Off On On Cn	Protection Policy RTP-Claster1-Locationap-PSG- Clovel DE-Locationap	Hypervisor Cluster Alletra-dHCI-Clst-02 Alletra-dHCI-Clst-02 Alletra-dHCI-Clst-02	Detainines HPE-VVDL-266a419fe6fb535 HPE-VVDL-266a419fe6fb535	Type VVOL VVOL VVOL		vCenter Hypervisor Dusters System Typ Storage	Inne- vomme 2. trislab timblestonge com Aletra-dHGI-Gist-02 (Maximum limit + 8) e: dHG

Maintaining and confirming the health of the physical hardware is an imperative responsibility of every Systems Administrator. The Health Checks application provides time-saving automation that ensures applications and infrastructure are operating well and that the cloud environment adheres to best practices. To validate this, HPE GreenLake tasks the system with running checks against approximately 75 rules or configuration guidelines to ensure the infrastructure is operating at optimal health.

As a practical example, if there are path issues to a VM datastore, Health Checks will direct the administrator to the specific host across all clusters with that issue. In this instance, inside the HPE GreenLake portal, the most efficient way to run the necessary Health Checks on the Alletra dHCI Infrastructure stacks is to access the individual system's portal page via the left side menu and select Systems. Once there, choose the specific dHCI stack you want to run a health check on.





Integrations with Data Services Cloud Console Automation

Understanding how HPE GreenLake for Private Cloud Business Edition fits into the HPE Data Services architecture is essential. As shown in the diagram below, the Data Services Cloud Console (DSCC) has multiple layers. Starting at the bottom is the cloud-native data infrastructure layer. This is represented by the on-prem clusters running VMs like HPE Alletra dHCI clusters or HPE SimpliVity clusters, including cloud clusters running in one of the supported hyperscalers.

The middle layer is the Cloud infrastructure services, where Private Cloud Business Edition fits. It also includes services like Setup Service for automating cluster deployments across sites to save time and Data Ops Manager that can be used to configure block services like replication between clusters or analyzing performance to finding storage performance issues.

The top layer is Cloud data services, with examples including HPE GreenLake for Backup and Recovery.

More detailed view of the current and future Data Services Cloud Console deliverables

				As-a-se	vice			
	Mission-critical	General-	purpose	Secondary	Big Data/Al	Edge	Cloud	Cloud-native data infrastructure
Al-driven global intelligence	Data Ops manager	Block services	Setup service	Private Cloud Business Ed.	File services	Storage fabric manager	laaS APIs	Cloud infrastructure services
~	Backup & recovery	Disaster recovery	Copy data management	Dev & test	Security & compliance	Analytics	Data migration	Cloud data Services

HPE Data Services Cloud Console (DSCC)



Backup and Recovery

Every systems engineer knows that backup and recovery are among the most critical administration areas. HPE understands this as well and dedicates an entire portal to the purpose.

The main dashboard provides insight into Inventory Summary, Protection counts and jobs, warnings and issues, and data consumption from backup in both the Cloud and On-Premise.





In the left side menu, you are given a wide array of options to manage the backups and policies for all systems managed within HPE GreenLake, including:

- Protection Policies
- Amazon Web Services
 - Elastic Block Store
 - EC2
 - EKS Clusters
 - Relational Database Service
- Microsoft SQL Servers
 - Databases
 - Instances
 - Protection Groups
 - Application Hosts
- VMware
 - Virtual Machines
 - Datastores
 - Protection Groups
 - vCenter Servers
- HPE Array Volumes
- Reports
- On-Premise Setup
 - Data Orchestrators
 - Protection Store Gateways
 - Protection Stores
 - StoreOnce



Final Thoughts

HPE GreenLake for Private Cloud Business Edition, building on HPE GreenLake Cloud Services offers enterprises a tailored hybrid cloud solution. Unlike mainstream providers, namely Amazon Web Services and Microsoft Azure, HPE GreenLake combines the agility of cloud consumption with the control of on-site infrastructure, emphasizing data locality for businesses concerned with compliance and security. It relies on cloud-native data infrastructure comprised of HPE Alletra dHCI for business-critical workloads or HPE SimpliVity for distributed edge sites. It seamlessly integrates with Amazon's EC2 and Microsoft Azure instances. Users benefit from streamlined setup, deployment, VM provisioning, comprehensive backup/recovery tools, and efficient system health checks, ensuring a robust and efficient cloud experience.

* HPE GreenLake rolled out Public Cloud access to Azure Virtual Machines in December. This means you can now create and manage VMs in the Microsoft ecosystem in the same way you currently manage them with AWS EC2.



Learn more about HPE GreenLake for Private Cloud Business Edition >

Frank Morrison, AUTHOR,

Head perpetually in the clouds. After spending 14 years in the military, he dove straight into the deep end of IT Engineering. Since then, he has worked at banks, MSP's, and in various contractor teams. He is fascinated by the advancement of cloud technologies and is here to help guide you through the rapidly changing environments and all the latest players entering the field.





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