



# Azure Virtual Desktop for Azure Stack HCI

February 23, 2024

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Managing digital transformation in an increasingly complex world

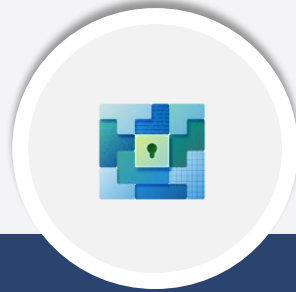
# Cloud migration continues to be top of mind and IT is facing challenges on many fronts



Controlling cloud sprawl and tool proliferation

**100+**

vendors and tools for an organization<sup>1</sup>



Determining which workloads will move to the cloud

**95%**

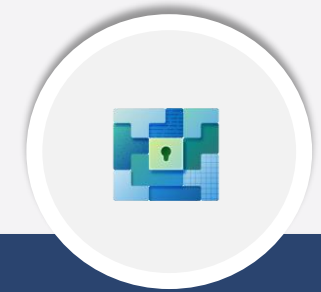
of new initiatives will be cloud-native by 2025<sup>2</sup>



Balancing cloud versus on-premises spending

**45%**

of all IT spend will be on cloud by 2026<sup>3</sup>



Providing the right tools for a distributed workforce

**39%**

of global knowledge workers will work in hybrid environments<sup>4</sup>

1. [Going lean: How vendor consolidation creates big gains](#), MIT Technology Review, June 2020  
2. [Gartner Identifies the Top Strategic Technology Trends for 2022](#) – Gartner, October 2021  
3. [Gartner Says Four Trends Are Shaping the Future of Public Cloud](#) - Gartner, August 2021  
4. [Gartner Forecasts 39% of Global Knowledge Workers Will Work Hybrid by the End of 2023](#) – Gartner, March 1, 2023

# Cloud Virtual Desktop Infrastructure (VDI) can provide a flexible cost-effective way to help IT pros manage their environments



## High-capacity computing

Cloud-scale compute and storage to support specialized workloads such as design and manufacturing.



## Disaster recovery

Help ensure continuity and access for your workforce and company data, even in the most challenging circumstances.



## Data security

Improve regulatory compliance and IP protection via data centralization and a reduced threat surface.



## Mergers & acquisitions

Provide seamless transitions and access for growing businesses.



## BYOPC programs

Provide secured, managed computing experiences on personal devices.



## Limited or shared device

Give frontline and shift workers affordable Cloud PCs without the hassles of sharing physical PC resources.



## Temporary workforces

Simplify and accelerate the onboarding and offboarding process for elastic workforces.

# Azure Virtual Desktop

# Azure Virtual Desktop is a cloud Virtual Desktop Infrastructure (VDI) solution designed to meet the challenges of distributed workforces

Enable a secure,  
remote desktop  
experience from  
anywhere



Access Windows 11 and Windows 10 from anywhere



Maintain full control over configuration and management



Get the security and reliability of Azure



Optimize cost with multi-session and pay for only what you use

# Azure Stack HCI



But not everything  
can run in the  
public cloud

## Customer considerations



Regulatory compliance and data residency



Data gravity



Latency-sensitive workloads

# Azure Stack HCI provides a cloud-native hybrid solution based on a modern subscription and an efficient hyper-converged infrastructure

## Modern infrastructure to deploy cloud-native solutions anywhere



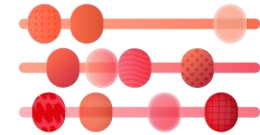
Cloud-native  
anywhere



Secured to run all  
workloads from cloud  
to edge



Familiar management  
and operations



Flexible  
options at the right price  
and performance point

# Azure Virtual Desktop for Azure Stack HCI

# Introducing Azure Virtual Desktop for Azure Stack HCI



- Designed for customers who need **secure on-premises virtualized apps and desktops**
- Combines the **benefits of Azure Virtual Desktop and Azure Stack HCI**
- Customers can **deploy in their datacenters to extend their on-premises infrastructure** to Azure
- All while enjoying many of the **key benefits of Azure Virtual Desktop on Azure**, such as **Azure portal, Windows 11 and Windows 10 multi-session**

# Azure Virtual Desktop for Azure Stack HCI extends the benefits of cloud VDI to on-premises



## Secure anywhere

- Run virtualized desktops and apps securely with Microsoft Entra ID, conditional access, and MFA
- Simplify VDI deployment
- No need to manage brokers, gateways, or underlying servers and storage



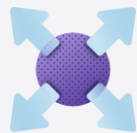
## Windows 11 and 10 multi-session

- Windows 11 and 10 multi-session or single-session support
- Achieve high utilization and lower operation costs



## Prime performance

- Enjoy optimized Microsoft 365/ Microsoft Teams/Windows App experiences
- Run graphic-intensive workloads with GPU support
- Built for sensitive low-latency workloads



## Full control

- Satisfy data locality requirements
- On-premises storage and data residency



## Scale cloud and on-premises

- Manage and scale deployments across both Azure and Azure Stack HCI through a single management experience
- Use the familiar Azure portal and admin experience



## Optimize for cost

- Use existing eligible Windows licenses
- No need to manage overhead licenses for Remote Desktop Services (RDS)
- Save with Windows 11 and 10 multi-session support

# Azure Virtual Desktop for Azure Stack HCI use cases



## Security and compliance

Secure, high performance cloud platform for financial institutions that meets compliance requirements



## Data sovereignty

Cloud functionality that can meet the data sovereignty and data gravity requirements for public sector entities



## Low-latency workloads

High performance and low-latency cloud capabilities that can meet the compute requirements for the most demanding workloads



## Virtual Desktop Infrastructure (VDI) modernization

Migrate existing VDI workloads to Azure using Azure Stack HCI

# Partners can deliver Azure Virtual Desktop for Azure Stack HCI through a variety of hardware form factors



## Remote office Branch office

Tower form factor for  
no rack environments



## Edge compute scenarios

Super small footprint  
for edge scenarios can  
be ruggedized



## Datacenter modernization

Industry rack mounted  
servers in various height  
for datacenter  
modernization



## Workload flexibility

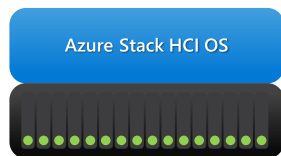
Composable architecture  
and blade server for  
ultimate in provisioning  
and workloads flexibility

Get started



# Azure Virtual Desktop for Azure Stack HCI pricing and licensing

## Azure Stack HCI Infrastructure



**\$10/physical core/month**

Customer owned hardware and Azure Stack HCI service fee

[Learn more](#)



## Azure Virtual Desktop for Azure Stack HCI



**Service fee: \$0.01 per vCPU/hour**

### Includes:

- Windows 11 and Windows 10 Enterprise multi-session\* activation (no separate license needed)
- Use of Azure Virtual Desktop service



## User Access Rights



**Windows 11 and Windows 10 Enterprise desktop\*\* licenses, including:**

- Microsoft 365 E3/E5
- Microsoft 365 A3/A5/Student Use Benefits
- Microsoft 365 F3
- Microsoft 365 Business Premium
- Windows 11/10 Enterprise E3/E5
- Windows 11/10 Education A3/A5
- Windows 11/10 VDA per user

\* BYOL for activating Windows 11 and Windows 10 (Single session) BYOL or use Windows Server subscription for Windows Server. [Learn more](#)

\*\* Use RDS CAL with active SA for user access on Windows Server. [Details here](#)  
External user access pricing is not supported for Azure Virtual Desktop on HCI.

# Next steps



Learn more



[Azure Virtual Desktop homepage](#)



[Microsoft Learn Documentation](#)



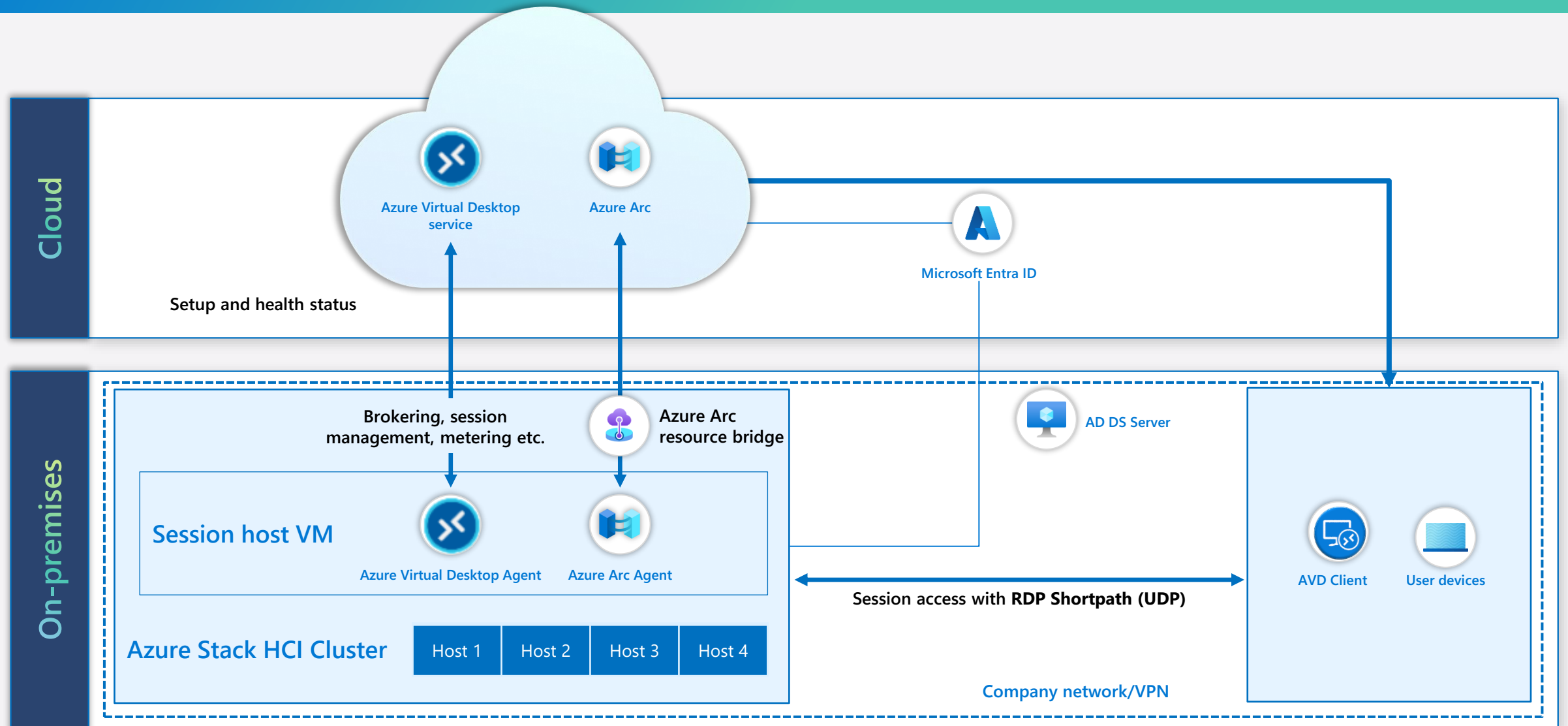
[Azure Virtual Desktop for Azure Stack HCI general availability blog](#)



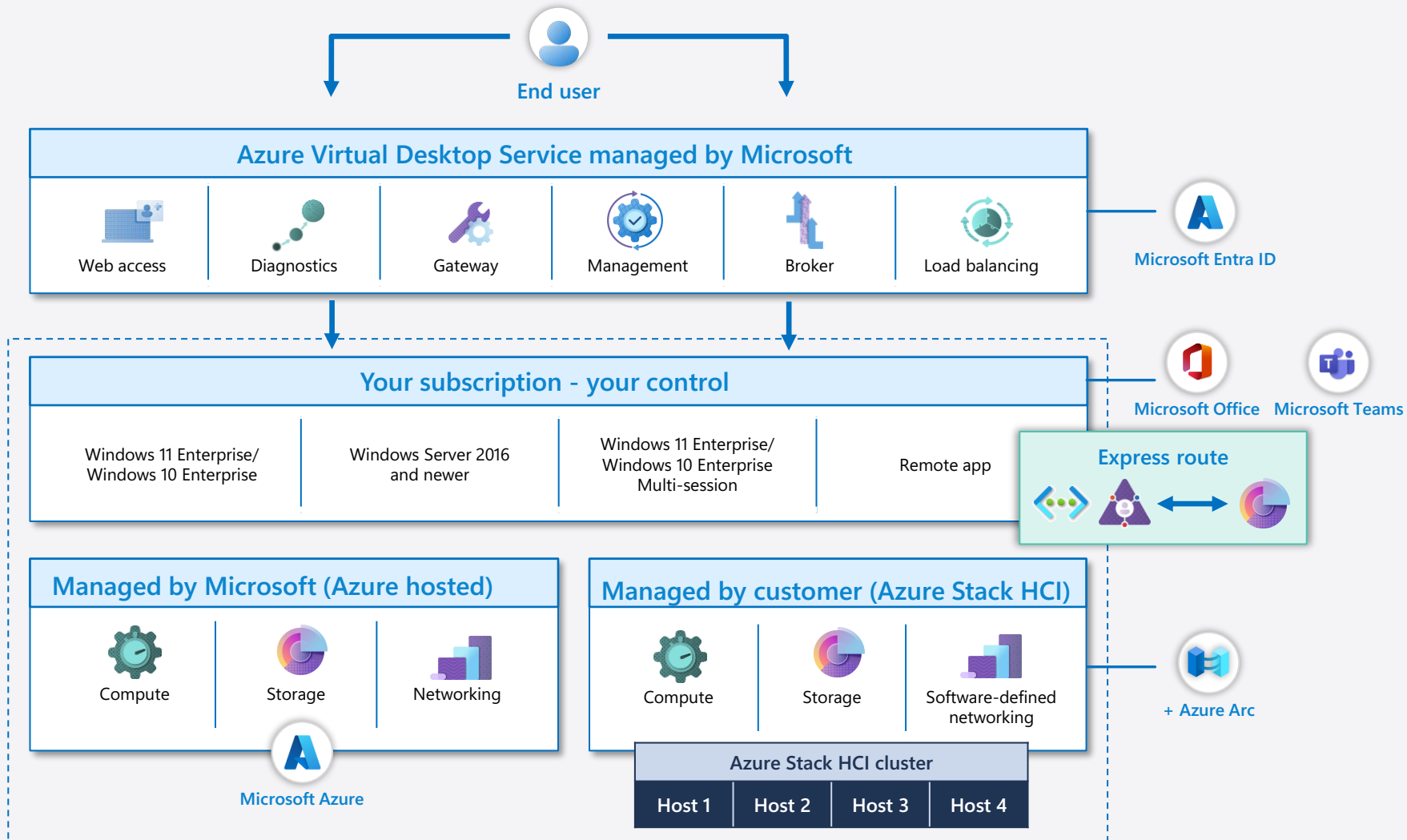
Contact your HCI vendor

# Appendix

# Azure Virtual Desktop for Azure Stack HCI high-level solution architecture



# Azure Virtual Desktop architecture and Azure Stack HCI



Provide your employees with a secure, remote desktop experience.

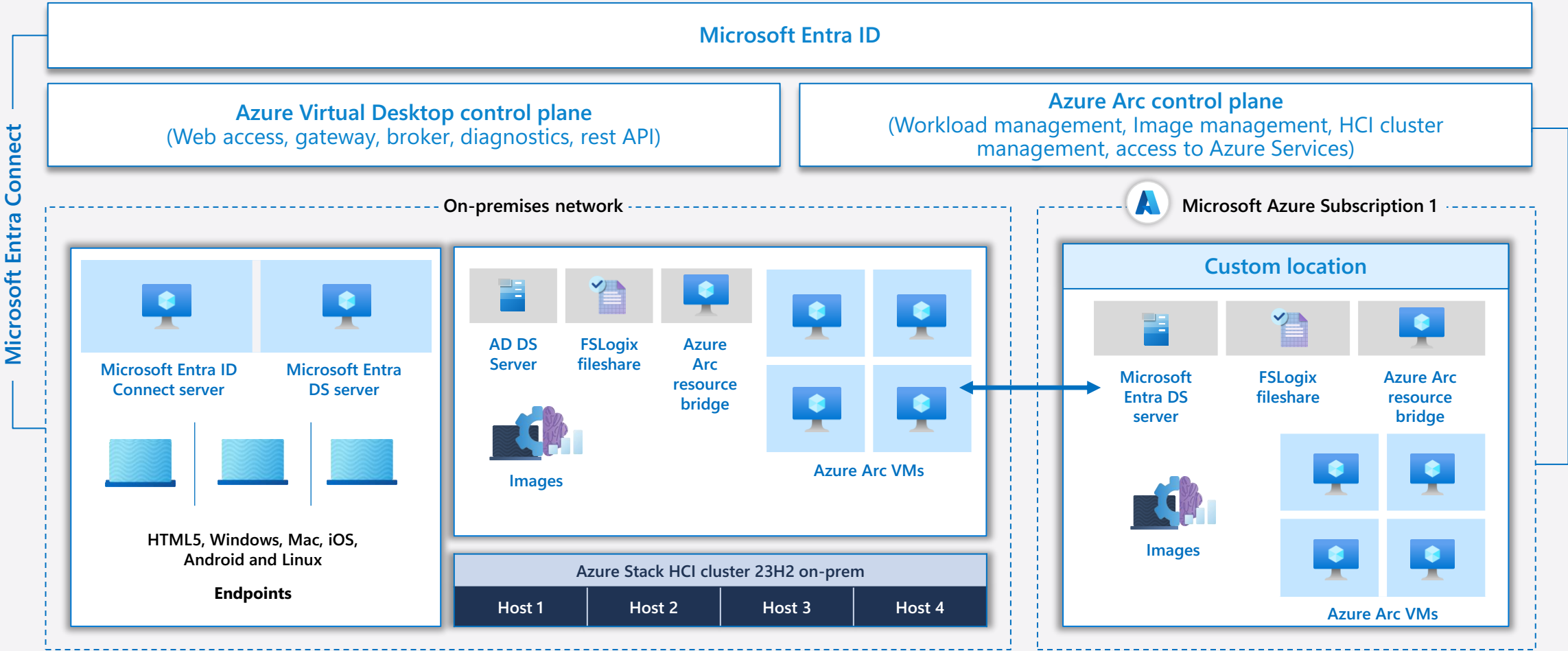


Connect from virtually any device of your choice.

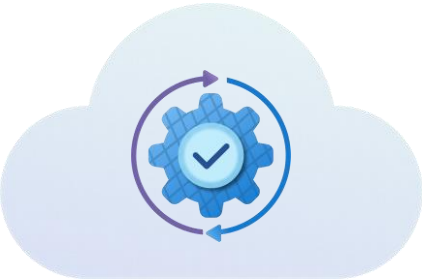

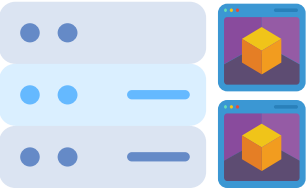
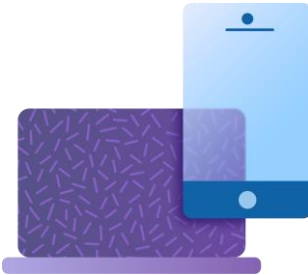


Focus on the right policies and controls rather than managing infrastructure.

# Sample customer architecture diagram



# Centralized management for Azure Virtual Desktop

Azure Virtual Desktop	Azure Virtual Desktop session hosts	End-user devices
 <p data-bbox="193 819 665 915">Centralized management from the Azure portal</p>	 <p data-bbox="1103 796 1391 836">Azure IaaS VMs</p>  <p data-bbox="991 1143 1500 1236">Azure Stack HCI VMs on-premises (preview)</p>	 <p data-bbox="2007 819 2181 1272">Windows macOS Linux HTML5 iOS Android</p>

# Admin experience

## Fully integrated cloud-native deployment experience in Azure Portal, powered by Azure Stack HCI Fall 2023 release

Provisioning Azure Virtual Desktop session hosts on Azure Stack HCI clusters. Enablement requirement:

- Azure Stack HCI clusters have been added to the Azure Virtual Desktop portal.
- Azure Stack HCI clusters (Fall 2023) must be deployed first.

Microsoft Azure

Search resources, services, and docs (G+/)

Home > Azure Virtual Desktop | Host pools >

### Create a host pool ...

Basics **Virtual Machines** Workspace Advanced Tags Review + create

A host pool is a collection of one or more identical virtual machines within an Azure Virtual Desktop environment. Here you can give details to create Azure virtual machines for your host pool now, or you can create and add them later, for example if you plan to add virtual machines from Azure Stack HCI. [Learn more](#)

Add Azure virtual machines  No  Yes

Host pools are a collection of one or more identical virtual machines within Azure Virtual Desktop environments. Here you provide a common set of properties to update the Session hosts within your host pool.

Resource group

Name prefix \*   
**i** Session host name must be unique within the Resource Group.

Virtual machine type  Azure region  Azure Stack HCI

Custom location \*

Images   
[See all images](#)

Number of VMs \*

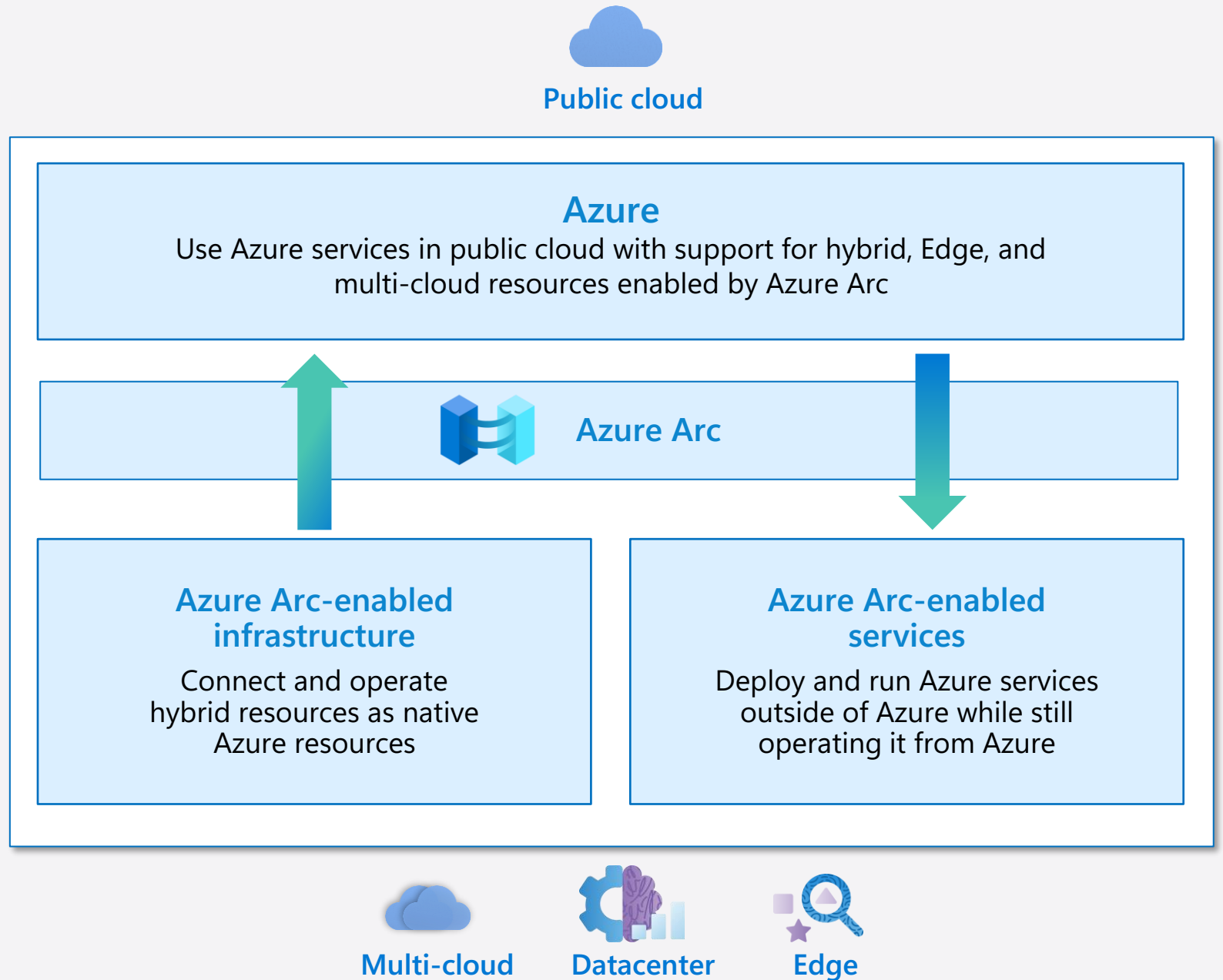
Virtual processor count \*

Memory type  Static  Dynamic

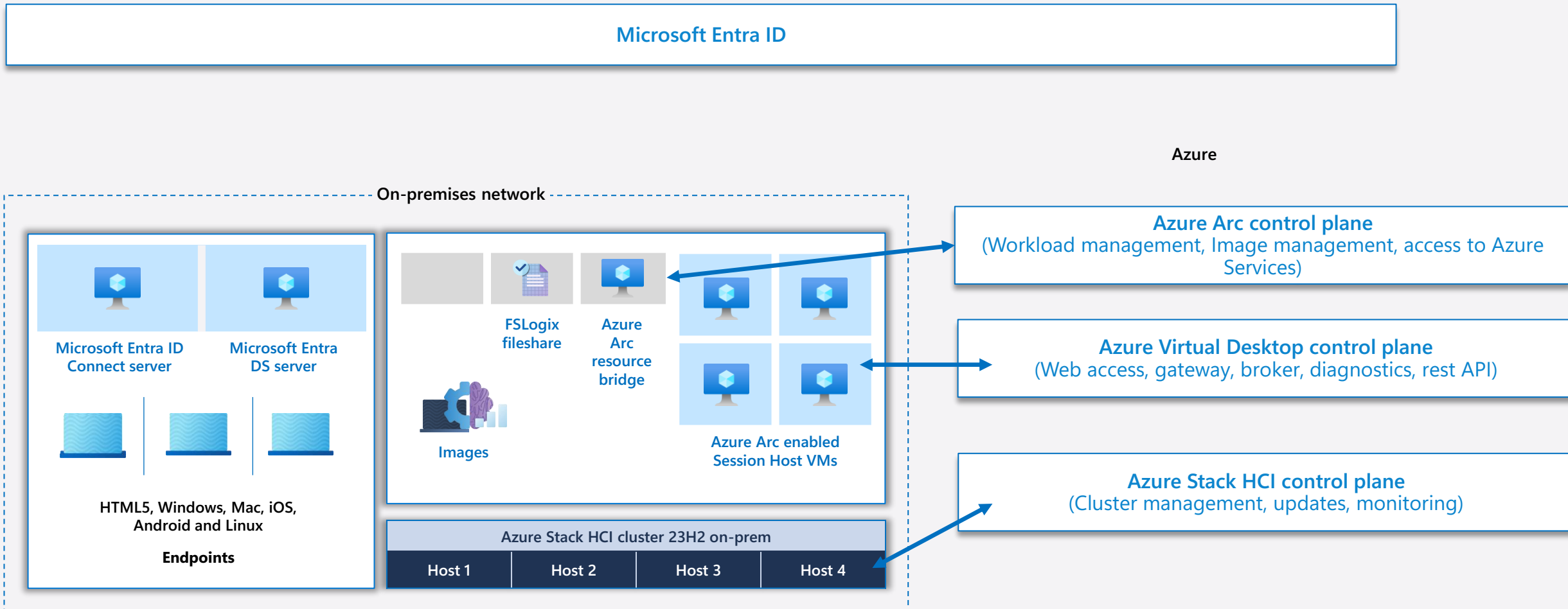
Memory (GB) \*



# Azure Arc delivers unified operations and management for hybrid cloud scenarios



# Sample customer architecture diagram





**Thank you.**