



Professional Direct Services & Support Monthly Service Review – January 2022

Monthly Review Key Stakeholders:

Professional Direct Services Escalation Desk: pdazure@microsoft.com

US & Canada: +1 (866) 270-5942 (toll-free) Australia: 1 (800) 481-230 (toll-free) UK: +44 (0) 800 783 9498 (toll-free) Regional Numbers & SR creation document <u>Click Here</u>

For Previous, Ask the Expert recordings - pdazure@microsoft.com

• Joe Ben Clark

- RJ Maitra
- Narasimha (Microsoft Azure PDM)

ProDirect Support Subscription Expiration Date – Points of Contact – Stakeholders

	Subscription Type: Pay-As-You-Go			
Account	Azure subscription Start Date & End Date:			
	ProDirect Support Coverage Start Date & End Date:			
Points of Contact Stakeholders Industry Vertical	 Technical decision maker for Azure: Name: Joe Ben Clark Title: Director of IT Contact: 512-789-3879 Email: jbclark@cdisc.org Point of contact from Operations Infrastructure team: Name: RJ Maitra Title: Azure Account Admin Contact: 703-953-8413 Email: rjmaitra@cdisc.org Point(s) of contact for ATE Sessions [Learning Webinars]: (distribution list preferred) 	 Point of contact from your Development Team Name: Anthony Chow Title: Head of Data Science dept Contact: Email: achow@cdisc.org Point of contact for Relationship Business Survey (RBS): Name: Joe Ben Clark Title: Director of IT Contact: 512-789-3879 Email: jbclark@cdisc.org Industry vertical e.g. Healthcare, Retail, etc.: 		

Azure Services Currently Deployed/Consumed

Top Three Consumed Services

➤App Service

- Azure DNS
- Azure Monitor
- ➤ Bandwidth
- ➤ Inter-Region
- Content Delivery Network
- Azure CDN from Microsoft
- ➤ Functions
- ➤ Key Vault
- Log Analytics
- Redis Cache
- ➤ Basic
- Service Bus
- Storage
- Bandwidth
- ➤ Files
- General Block Blob

➤Cognitive Search

- ➢ Queues v2
- Standard HDD Managed Disks
- Standard Page Blob v2
- Standard SSD Managed Disks
- ➤ Tables
- ➤ Tiered Block Blob
- Virtual Machines
- Dv3/DSv3 Series
- Virtual Network
- IP Addresses
- Private Link

≻APIM

- > API Management
- Application Gateway
- Standard v2
- ➤ WAF v2
- Azure Active Directory B2C
- Azure Active Directory for External Identities
- ► B2X
- Azure App Service
- ➤ Free Plan
- ➤ Free Plan Linux
- Premium v2 Plan Linux
- Static Web
- Azure Bastion
- Azure Cognitive Search
- Azure Cosmos DB

Support Experience Though we are not the support team, we would like to take feedback on your support experience from Microsoft engineers and push towards implementing your feedback

Status	Service Request #	Service Request Title	Current SR phase*	Your Experience
Open	2201100040007836	Switch to pay by invoice	In Pipeline	

* Solution Delivered/ In-Pipeline/ Pending RCA



Azure Advisory

Advisory Services are prominently designed to address queries on your new or existing Azure deployments. Our experienced consultants will help clarify your service utilization questions, whereby you can optimize and get the most out of the existing and future consumptions through effective collaboration.

Introducing the New Azure ProDirect Advisory Request

Submit an advisory request to your ProDirect Delivery Manager to architect, design, implement, migrate, or grow your applications on the Microsoft Azure platform.

English	https://aka.ms/pdazureadvisory	Azure ProDirect Advisory Request
Japanese	https://aka.ms/pdazureadvisory/ja-jp	Submit an advisory request to your ProDirect Delivery Manager to architect, design, implement, migrate, or grow your applications on the Microsoft Azure platform.
Spanish	https://aka.ms/pdazureadvisory/es-es	Note: Advisory requests do not cover technical support (break/fix) scenarios; we suggest opening a ticket through the Azure Portal (https://portal.azure.com) if you need troubleshooting assistance.
Portuguese	https://aka.ms/pdazureadvisory/pt-br	First Name*
French	https://aka.ms/pdazureadvisory/fr-fr	
German	https://aka.ms/pdazureadvisory/de-de	Last Name*

Note: Advisory requests do not cover technical support (break/fix) scenarios; we suggest opening a ticket through the Azure Portal (<u>https://portal.azure.com</u>) if you need troubleshooting assistance.

Azure Advisory – Scope

Optimization:

Azure optimization & best Security practices

How to examples:

- How to create a Virtual Machine from ISO
- Essential questions on your Azure Subscription
- How to change Web Services Plan Recommendations and Best practices:
 - Best Practices for establishing NetworkSecurity Group on your environment.Access & Rights Management solutions& recommendations.
 - Best Practices for Classic (ASM) to ARM migration.

Cost optimization solutions/suggestions

Part of the new form is a field for your Azure Subscription GUID. We ask that you include this to provide the fastest and most efficient service for you:

Your Azure Subscription ID

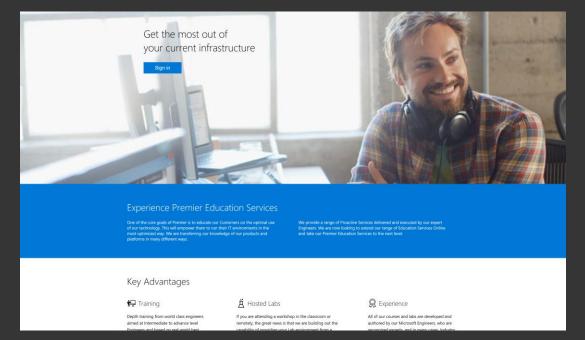
To find your Azure Subscription GUID:
Login into the Azure portal: <u>http://portal.azure.com</u>
On the left pane select "Subscriptions"
Choose the subscription you want to check and click "Overview"
Copy the subscription ID

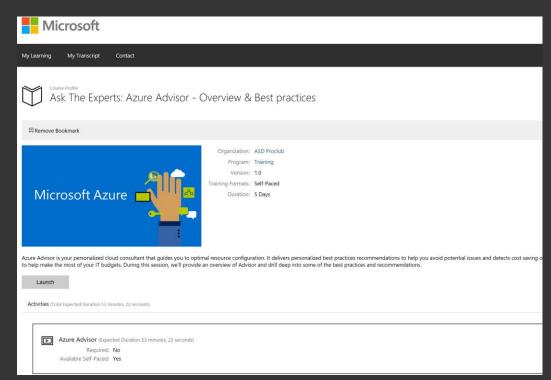
Ask the Experts on-demand library

Missed the live Ask The Experts session? No worries!

Please check our Learn on demand/Services hub/ProClub Portal – A video library of all the previous Azure ATE session recordings. This is an additional benefit exclusive for all our ProDirect Customers. You can go through the webinars of your choice at your own pace. Also you can provide feedback about the session & the experience. All available here:

<u>https://aka.ms/ATEProClub</u>





Do you need any additional keys? Please provide the email to send a new code to Email:

Have questions about how to redeem your key or access the On-Demand Library? Please watch the demo available at aka.ms/ATE AccessToProClub

Session Details	Webinar Date/ Presenter
Azure AD for MR Apps: Taking Identity & Security to the next level In this session we're going to explore about Using AAD in UWP and Unity to enable Your Mixed Reality solutions with Azure and M365 in the most secure way. We'll explore How to secure users identity with Azure Active Directory , MR client Azure resources visit, MR client API calling and the best practice we can follow for my business behaviors.	Tuesday, 14 th December 2021 at 10:00 AM IST Presenter: Wayne Wang Sr Customer Engineer/Azure App Consult Engineer
Fast, secure, and reliable application delivery with Azure Front Door In this session we explored importance of Azure Front Door for your application and how it can improve the performance of your application and protect it from attacks and vulnerabilities. We'll explore on how AFD works and the architecture behind the service and Standard/Premium Tier of AFD	Tuesday, 14 th December 2021 at 10:00 AM UTC Presenter: Waddah Shamroukh Azure App Consult Engineer
Simplify migration of VMware workloads to Azure In this session we learned about an overview on Azure VMware Solution and some of the key elements. We will discuss how to setup an Azure VMware Solution private cloud and options to integrate to other Azure services. We'll talk about how Azure VMware Solution can help accelerate cloud migration by running VMware as a service on Azure. Azure VMware Solution provides the ability to simply lift and shift your VMware applications, continue to leverage familiar VMware tools, and maintain operational consistency in the cloud.	Tuesday, 14 th December 2021 at 10:00 AM PDT Presenter: Locky Ainley Sr Product Marketing Manager

Session Details	Webinar Date/ Presenter
Innovate with cloud-native technology on Azure This session we talked about an overview on Microsoft's full spectrum of cloud native applications and open source on Azure We'll talk about what it means to build cloud-native applications, customer examples, and different compute and data options to build cloud-native applications on Azure.	Tuesday, 23 rd November 2021 at 10:00 AM PDT Presenter: Ahmed Sabbour Senior Product Marketing Manager
AKS Security Best Practices In this session we explored security best practices to adopt before going into production with an Azure Kubernetes Service Cluster. We'll explore on how we deal with the security specific to an AKS cluster (Pod, Node, K8S	Tuesday, 23 rd November 2021 at 10 AM UTC Presenter: Dominique Vives
API, Policy etc.) and the security linked to the architecture of the solution (Network, Images, etc.).	Azure App Consult Engineer

Session Details

Webinar Date/ Presenter

Accelerate your App with Azure Cache for Redis

This session we talked about all the best practices for implementing and maintaining optimal monitoring for your Azure & Hybrid apps and infrastructure.

In this webinar we also looked at:

- Learn how best to plan and design your monitoring architecture.
- Learn how you can implement monitoring at scale and automate actions & remediations.
- Learn how you can optimize diagnostics in a distributed environment and collaborate effectively.

Building Modern Windows Desktop App

In this session we're going to explore the latest technologies to build modern Windows applications and how you can gradually evolve your existing solutions to take advantage of the latest Windows innovations.

We'll explore the latest enhancements in the .NET ecosystem with .NET 5 and the new Windows Apps SDK platform, which enables developers to incorporate in their applications the latest innovations in the Windows platform, like Fluent Design and push notifications

Tuesday, 19th October 2021 at 10:00 AM PDT Presenter: Rahul Bagaria

Principle Product Manager, Azure Cache for Redis **Brian Wren** Principal Content Developer

Tuesday, 12 & 19th October 2021 at 10 AM UTC Presenter:

> Matteo Pagani Azure App Consult Engineer

Session Details	Webinar Date/ Presenter
 Accelerate your App with Azure Cache for Redis This session took a deep dive into Azure Cache for Redis - a fully managed Redis service on Azure. We presented common architectures and use-cases for Azure Cache for Redis Metrics on the improvement in latency Throughput performance that Azure Cache for Redis can provide 	Tuesday, 21 st September 2021 at 10:00 AM PDT Presenter: Kyle Teegarden Product Marketing Manager, Azure Cache for Redis
Monitoring across App and Infrastructure with Azure Monitor This session is designed to help you get familiar with everything thing you need to know to monitor the availability, performance, and usage of your applications and infrastructure. Azure Monitor helps you maximize the availability and performance of your applications and services. It delivers a comprehensive solution for collecting, analyzing, and acting on telemetry from your cloud and on-premises environments. In this demo-driven session, we'll cover core concepts and usage scenarios and best practices.	Tuesday, 21 st September 2021 at 10:00 AM UTC Presenter: Punit Shah Azure App Consult Engineer

Session Details	Webinar Date/ Presenter
Confidential Computing on Azure In this session we gave an overview of Azure Confidential Computing with which you can protect your data not only in transit and rest, but also in use with Azure VMs and AKS. We discussed why Confidential Computing is relevant, and you'll see how to make use of it on Azure.	Tuesday, 24 th August 2021 at 10:00 AM UTC Presenter: Marcelo Tokunaga Azure App Consult Engineer
Azure Arc and Kubernetes Arc Enabled In this session we gave an overview of Azure Arc with a demo of this technology using Kubernetes. During this session we presented to you what's Azure Arc and why it's important and dug into Kubernetes Arc Enabled with use cases and demo showing how to use and configure important features.	Tuesday, 24 th August 2021 at 10:00 AM UTC Presenter: Marcelo Tokunaga Azure App Consult Engineer
Azure Backup - What's new and Roadmap In this session we gave an overview, demo and deep dives on new enhancements along with the six month roadmap. We also talked about the design details of some of the newer introductions such as Multi-user authentication, archive and snapshot-based backup for large databases.	Tuesday, 17 th August 2021 at 10:00 AM PDT Presenter: Swati Sachdeva Program Manager, Azure Back-up

Session Details	Webinar Date/ Presenter
 Demystifying Azure Blob Storage Cost In this session you will to learn how to reduce your cloud storage costs with the latest offerings from Azure Blob Storage. First we will look at the main cost drivers that influence your Azure Blob storage bill. Then we will then look at the ways to optimize your storage performance and costs. We would do this by exploring storage features such as performance tiers, redundancy options and lifecycle policy. Lastly, we would explore the multiple purchase options and commitment discounts available to customers to lower cost. 	Tuesday, 20 th July 2021 at 10:00 AM PDT Presenter: Ripudaman Batta Principal Program Manager, Azure Storage
Azure MLOps - Machine Learning Operations Learn how to automate your model training and verification using Azure DevOps and Azure Machine Learning Studio. Agenda • Scenarios • Requirements • Sample Solution	Tuesday, 20 th July 2021 at 10:00 AM UTC Presenter: Marcelo Tokunaga Azure App Consult Engineer

Session Details	Webinar Date/ Presente
Azure and reliability: Outages, transparency, and partnering together to ensure resilient operations In this session, we will first explore Microsoft's responsibility – reliability 'of' the cloud – detailing how we run our infrastructure (networking, geographies, regions, Availability Zones, datacenters, storage), our processes (safe deployment, impact less maintenance, AIOps: ML & failure prediction), and our principles (prioritizing security & data integrity, and our communications pillars). We will then define the customer/partner responsibility – reliability 'in' the cloud – providing the latest guidance from the Azure Well-Architected Framework including design recommendations (including composite SLAs, failure mode analysis, high availability and disaster recovery), testing recommendations (including chaos engineering & fault injection), and monitoring recommendations (disambiguating different Azure alerts, both for people and for systems).	Tuesday, 22 nd June 2021 at 10:00 AM PDT Presenter: David Steele Senior Product Manager Sami Kubba Principal PM Manager

Session Details	Webinar Date/ Presenter
 Monitor and Troubleshoot your Networks using Azure Solutions In this session we will give you an overview of the native Network Monitoring suite from Azure. Learn how you can view network health, check real-time connectivity and analyze your traffic flows. We'll cover the following areas: Network Health monitoring with Network Insights. Hybrid connectivity monitoring with Connection Monitor. Traffic monitoring using NSG Flow and Traffic Analytics. Troubleshooting with Network Watcher diagnostic tools. 	Tuesday, 22 nd June 2021 at 10:00 AM IST Presenter: Viny Nigam Senior Program Manager Mohit Agrawal Program Manager
 Routing Simplified with Azure Route Server Azure Route Server facilitates dynamic routing between Network Virtual Appliances (NVAs) and Virtual Machines (VMs) within an Azure Virtual Network (Vnet) or on-premises. Specifically, as customers create/delete NVAs and VMs in a Vnet or on-premises, Azure Route Server dynamically learns new routes from the Virtual Network Gateway or Host Machines associated with the Vnet. Agenda What is Azure Route Server Benefits of Azure Route Server Use Case of Azure Route Server 	Tuesday, 15 th June 2021 at 10:00 AM UTC Presenter: Waddah Shamroukh Azure App Consult Engineer

• Demo

Session Details

Webinar Date/ Presenter

Azure Communication Services

You will receive an overview of how to build engaging communication experiences at scale Azure Communication Services is a platform with rich communication, video, and SMS APIs for deploying your applications across any device, on any platform, using the same reliable and secure infrastructure that powers Microsoft Teams.

Agenda

- What is Azure Communication Services?
- Concepts
- Common Scenarios
- Features
 - Voice Video Calling
 - Chat
 - SMS
 - Telephony
 - Architecture Designs
- Demo
 - Q n A

Tuesday, 18th (EMEA) & 19th (NOAM) of May 2021 at 10:00 AM UTC & PDT (NOAM) Presenter:

Punit Shah (EMEA) Azure App Consult Engineer

Charlie Nguyen (NOAM)

Azure App Consult Engineer

Session Details	Webinar Date/ Presenter
Ne will show how to monitor the performance of your workload, how to improve it and how to secure it using the tools and features at your disposal on the Azure portal without having to nstall 3rd party tools. We will also show some ways to lower the costs or increase performance without having to also increase costs.	Tuesday, 27 th April 2021 at 10:00 AM IST Presenter: Jose Manuel Jurado Diaz Azure SQL Engineer Roberto Cavalcanti Cloud Solution Architect
Mixed Reality in the cloud In this session, you'll get an overview of the current state of mixed reality development. The focus is less on the developer experience and more on how to improve the application using the Azure ecosystem. Our journey will go from simple REST endpoints to authentication to dedicated MR services.	Tuesday, 20 th April 2021 at 10:00 AM UTC Presenter: Marc Plogas Azure App Consult Engineer
Securing hybrid cloud with Azure Security Center and Azure Defender Azure Security Center provides cloud security posture management for hybrid cloud workloads and integrated with Azure Defender, protects multi-cloud workloads from threats. Join us in his session to see live demos, discover multi-cloud protection capabilities and understand what value you can expect from your deployment. Do bring your questions, Devrim & Yuri look forward to chatting with you.	Tuesday, 20 th April 2021 at 10:00 AM PDT Presenter: Devrim lyigun Sr. Product Marketing Manager Yuri Diogenes Principal Program Manager

Session Details

Webinar Date/ Presenter

Prepare your cloud environments using Azure landing

<u>zones</u>

One of the most common questions customers ask is how to ensure the destination Azure environment is ready, not only to receive all the migrating applications, but also to balance agility, governance and security considerations. Azure landing zones addresses that by helping customers map the right environmental controls needed to balance control and innovation. During this session, you will learn how the Azure landing zones within the Microsoft Cloud Adoption Framework enables successful cloud adoption.

During this session we will discuss following:

- What are Azure landing zones and why are they important?
- What are the different landing zones implementation options?
- How do you choose the right landing zone option that suits your business needs?

Azure Arc and Kubernetes Arc Enabled

We will be giving an overview of Azure Arc with a demo of this technology using Kubernetes.

During this session we will be presenting to you what's Azure Arc and why it's important and we'll dig into Kubernetes Arc Enabled with use cases and demo showing how to use and configure important features.

Tuesday, 23rd March 2021 at 10:00 AM PST Presenter: Brian Blanchard Sr. Director, Cloud Adoption Framework

Tuesday, 23rd March 2021 at 10:00 AM UTC Presenter:

Marcelo Tokunaga Azure App Consult Engineer

Ask the Expert Sessions – Planned Future Sessions (dates tentative until invite is sent)

Session Details	Presenter	Region	Webinar Date & Time
Develop low code applications with Fusion Teams	Matteo Pagani Azure App Consult Engineer	EMEA	Tuesday, January 18 th at 10:00 AM UTC
<u>Azure Cosmos DB</u>	Mustafa Branch Product Marketing Manager	NOAM	Tuesday, January 18 th at 10:00 AM PST

Our next topic: Help us decide! Tell us what you want to us to cover in our future Ask the Expert Sessions

Ask the Expert Sessions – Feedback

What Ask the Expert topics are you most a interested in?

Do you prefer to attend the live event or review the ondemand content?

Have you redeemed your ProClub recordings access key?



Future Plans

 Tell us your plans for new projects, which takes advantage of Microsoft Azure?

• To realize your plans, do you need any assistance from us?

Recommendations on:

Cost Saving Factors, Security & Vulnerability, Performance Optimization, and High Availability Azure Advisor

Advisor is a personalized cloud consultant that helps you follow best practices to optimize your Azure deployments. It analyzes your resource configuration and usage telemetry and then recommends solutions that can help you improve the cost effectiveness, performance, high availability, and security of your Azure resources.



High Availability: helps you ensure and improve the continuity of your business-critical apps



Security: provides you with a consistent, consolidated view integrating with Azure Security Center to bring you security recommendations.



Performance: helps improve the speed of your applications

Cost: helps you optimize and reduce your overall Azure spend by identifying idle and underutilized resources

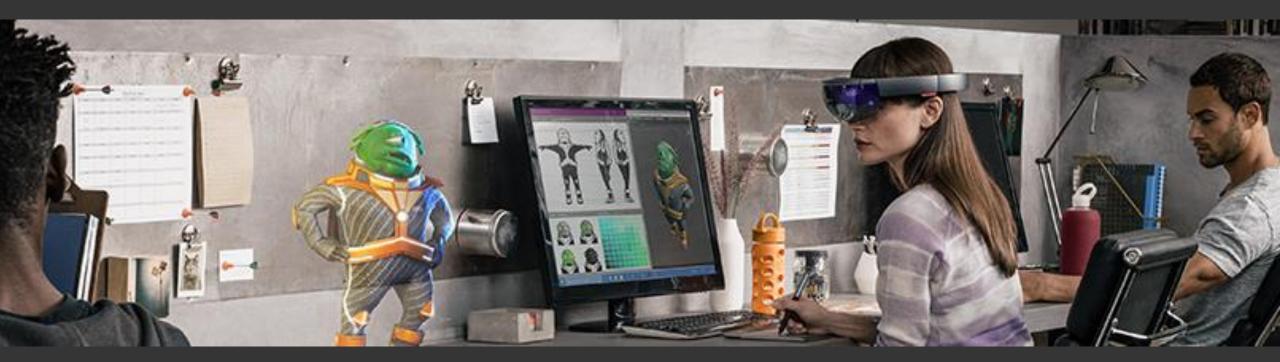


_ 🗆 ×

_							
	ALL	HIGH AVAILABILITY	SECURITY 🕕	PERFORMANC	E	COST	
	9	906	01	ííí 0		2	
	Improve the availability, security an Subscriptions	d performance of your Azure resourc	ces with these recommendations. Resource groups		ive or snoozed 0		
	Azure Supportability Demo Account Or		All resource groups	✓ A	ctive		~
	Get recommendations Active recommendations						
	IMPACT DESCRIPTION			RESOURC	E	UPDATED AT	
	High	achine has low usage cost, shut down or resize your virtual mach			machines	11/10/2016 5:25:26 PM	
	High	ctive solution to manage the performance nended elastic database pools	goals of multiple SQL databases	1 SQL se	rver	11/10/2016 5:25:20 PM	
	This availability	cot is not configured for fullt tolerance				11/10/2016	~

Microsoft Azure App Consults (AAC) Collaborative expert consultation for your developers

- Do you have a development project that you would like to engage with our experts to take advantage of this exclusive offer available only to a select few of our customers such as yourself?
- For more details refer to <u>Azure App Consults Datasheet</u>



Microsoft Azure App Consults (AAC)

Collaborative expert consultation for your developers



- A consultation is a structured discussion to address your development team's questions or challenges
- Your consultant will work with your development team to identify prerequisites, provide customized technical guidance, and deliver a summary report, including a detailed action plan.
- Receive customized architecture guidance through interactive Skype sessions & customized white-boarding/prototyping which allows you to discuss architecture possibilities and review total cost of ownership options
- Assistance with Azure development and implementation by coaching you through developing an action plan, providing sample scripts & feature parity examples to help jumpstart your project, as well as code tips and troubleshooting, plus best practices for instrumentation to monitor your app
- Optimize your Azure development by staying informed about new services and features explore in-depth monitoring and diagnostic tools that can help tune your code to optimize application performance
- Watch a short presentation on this <u>here</u>

New Releases & Updates – General Availability

FastTrack for Azure

FastTrack for Azure brings proven practices, design principles and tools from engineering and real customer experiences to guide customers from design, configuration, and development to production.

- FastTrack for Azure is now available to <u>eligible customers in available</u> <u>regions</u>* that satisfy all the following criteria:
- Have an identified FTA-supported Azure project** (<u>Browse Azure</u> <u>Architecture for FastTrack for Azure supported solutions</u>)
- With expected consumption per project of > \$5,000USD/month or equivalent in local currency once fully ramped (within 12 months)
- \cdot Intent to deploy in the near term
- Have an active paid Azure subscription.

*Expansion to other regions is being planned and will be announced closer to the launch dates. Local language coverage is dependent on resource availability. **Project is a defined, specific workload with pressing intent. e.g. Named servers, App or Databases. Not simply a broad aspiration to utilize Azure. Note: If Customer has a MS Cloud Solution Architect, additional approval is required.

New Releases & Updates

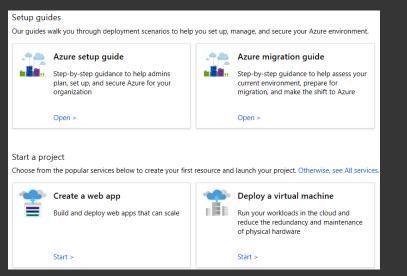


Azure Quickstart Center update

Previewed at our Build conference last year and enhanced for last year's Ignite, the Microsoft Azure Quickstart Center designed to help you quickly start your projects in Azure with step-by-step guidance helping you set up your Azure environment with best practices and guidance from Azure. You can access Quickstart Center either from the **All services** menu under the **General** category, or simply by typing **Quickstart** in the global search.

Azure Quickstart Center offers you two options to get started:

- Start a project by creating an Azure Service You can learn as you build new workloads in Azure and quickly identify which service is best for your project.
- Azure setup guide You can configure your cloud services with recommended best practices to secure, monitor and control your Azure environment.



Take an online course

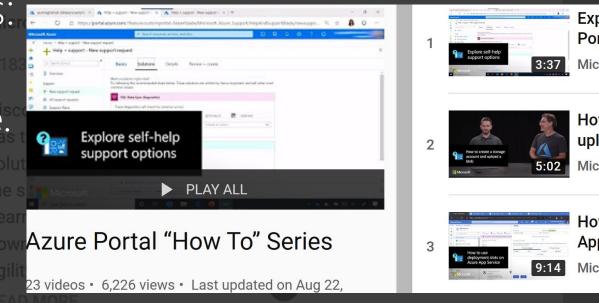
You can also choose from a wide variety of online courses to increase your knowledge and learn core cloud concepts. To help you get started quickly

Home > Quickstart Center Quickstart Center					
Get started Take an online course					
Follow a full course or review individual modules and units Browse all Azure learning paths [2]	s to learn core cloud concepts.				
Cloud Concepts - Principles of cloud computing 1 hr 2 min • Module • 10 Units	Core Cloud Services - Manage services with the Azure portal				
Explore the core concepts of cloud computing and how it can help your business.	Tour the Azure portal features and services, and customize the portal.				

Azure Portal "How To" Series

Introducing the Azure portal "how to" video series

- A new video weekly series highlights specific aspects of the Azure portal so you can be more efficient and productive while deploying your cloud workloads from the portal.
- Each video in the series demonstrates how to take advantage of a
- portal feature or capability, such as:
- How to work with multiple accounts, directories and subscriptions in Azure.
- How to create a virtual machine.
- How to stay connected to Azure virtual machines by using the Azure mobile app.



General Availability – Updates

Soft delete for blobs capability for Azure Data Lake Storage is now GA

If you have processes or tools to detect accidental deletion of files and directories for your Azure Data Lake Storage accounts, you can now also restore the deleted objects using soft delete for blobs capability. During the retention period that you specify, you can now restore a soft-deleted object to its state at the time it was deleted. <u>Placement polices now GA for Azure VMware Solution</u>

Placement policies enable admins to specify constraints or rules when allocating Virtual Machines within an Azure VMware Solution private cloud. With this update, the creation and assignment of vSphere Distributed Resource Scheduler (DRS) rules for running Virtual Machines in an Azure VMware Solution SDDC has been simplified and is now executable directly from the Azure Portal for cloud admin roles..... For more information on requirements for placement policies in Azure VMware Solution and how to create and apply them, <u>read the documentation</u>

General Availability – Updates

Azure SQL—GA updates for December 2021

December 2021, the following updates and enhancements were made to Azure SQL:

- Enable long-term retention on Azure SQL Managed Instance to store full backups up to 10 years.
- <u>Limits network traffic from Azure SQL to a customer defined list of storage accounts using</u> <u>outbound firewall rules</u>.
- <u>Configure backup storage redundancy for Azure SQL Database to store backups on local, zone, or geo redundant storage.</u>

General availability: UI Library for Azure Communication Services

Developers can simplify the cross-channel user experiences within their applications with Azure Communication Services UI Library.

The UI Library for Azure Communication Services provides developers chat and calling UI components and turn-key composites. Whether for an Enterprise building line-of-business apps or an ISV building custom solutions, the UI Library can help developers with faster time-to-market and ongoing maintenance for the communication experiences within their applications. Components are fully open-source and identity agnostic with interoperability into Microsoft Teams.

• View the UI Library Sample

• Learn more about Azure Communication Services

General Availability – Updates <u>Azure Database for PostgreSQL – Hyperscale (Citus): New toolkit</u> <u>certifications GA</u>

New Toolkit certifications are now available on Azure Database for PostgreSQL – Hyperscale (Citus), a managed service running the open-source Postgres database on Azure. You can now use Azure Database for PostgreSQL – Hyperscale (Citus) for workloads that require your database to be <u>The Health Insurance Portability and Accountability Act (HIPAA) and the Health Information Technology for Economic and Clinical Health (HITECH) Act, System and Organization Controls (SOC) 2 Type 2, Commodity Futures Trading Commission (CFTC) <u>1.31</u>, <u>Dubai Electronic Security Center (DESC)</u> and <u>NHS Information Governance</u> (NHS IG) toolkit compliant.</u>

Azure Cache for Redis: Diagnostics for connected clients is GA

- Use Azure diagnostic settings to log information on all client connections to your Azure Cache for Redis instance.
- Azure Cache for Redis can now log information on all client connections to your cache by using Azure diagnostic settings. Logging and then analyzing this diagnostic setting helps you understand who is connecting to your caches and includes a timestamp of those connections. This data could be used to identify the scope of a security breach and for security auditing purposes. Users can route these logs to a storage account, Event Hub, or Log Analytics workspace.

General Availability – Updates <u>Azure HPC Cache now generally available in Germany West Central and US West 3</u>

New regional availability of Azure HPC Cache expands access to low-latency compute. Announcing the availability of Azure <u>HPC Cache</u> into two new regions, Germany West Central and US West 3.

Helping customers with the need for low-latency access to unstructured data to support high-performance computing (HPC) workloads, Azure HPC Cache has expanded availability into more regions. Customers running HPC workloads in Germany West Central or in US West 3 can now add this service via the Azure portal.

See a full list of <u>geographies for Azure HPC Cache</u>.

Explore how to get started HPC Cache in the supporting <u>documentation</u>. GA: Azure Communication Services interoperability with Microsoft Teams

Improving customer interactions across apps with Microsoft Teams and Azure Communication Services interoperability.

Azure Communication Services can now be used to connect users of a custom-built app with users on Microsoft Teams via voice, video, or chat. Organizations and businesses alike can offer custom branded experiences connected with Microsoft Teams where internal employees benefit from the security, familiarity, and capability of Microsoft Teams, and external users can enjoy a custom communication experience on a web or mobile app <u>Read the blog</u>. <u>Watch the video</u>.

General Availability – Updates

<u>Azure HPC – CycleCloud 8.2.1 is now generally available</u>

The new release includes Slurm and VMSS improvements as well as seven new bug fixes. We're announcing the release of CycleCloud 8.2.1 This release contains a number of Slurm improvements. Check the list of the improvements and bug fixes <u>here</u>

Azure Machine Learning – December 2021 GA

A new feature now available in general availability includes Manage Azure Machine Learning resource using Hashicorp Terraform. Hashicorp Terraform configuration templates allow you to deploy your Azure Machine Learning resources in a repeatable and predictable manner along with other resources across Azure and other clouds.

General Availability – Updates

Immutable storage with versioning for Blob Storage is now GA

Immutable storage with versioning is now generally available. Set time-based policies or legal holds on data so that the data becomes non-erasable and non-modifiable and protect all versions of a blob.

Immutable storage with versioning for Blob Storage is now generally available. Immutable storage provides the capability to store data in a write once, read many (WORM) state. Once data is written, the data becomes non-erasable and non-modifiable, and you can set a retention period so that files can't be deleted until after that period has elapsed. Additionally, legal holds can be placed on data to make that data non-erasable and non-modifiable until the hold is removed.

Immutable storage with versioning adds the capability to set an immutable policy on the account, container, or object level. It also allows for the immutable protection of all past and current versions of any blob. <u>Azure Storage Blobs Pricing</u>.

Additional General Availability updates:

India Central Availability Zones now generally available:

Availability Zones in India Central are made up of three unique physically separated locations or "zones" within a single region to bring higher availability and asynchronous replication across Azure regions for disaster recovery protection.

Microsoft Defender for Cloud: General availability updates for November 2021:

New enhancements and updates released for general availability (GA) in Microsoft Defender for Cloud in November 2021. <u>IaaS Agent extension full mode no restart for SQL VMs generally available</u>:

SQL Server laaS Agent extension can now be upgraded to full mode from lightweight mode without any service disruptions. <u>SQL Server laaS Agent extension for Linux SQL VMs generally available</u>:

SQL Server laaS Agent extension license management capabilities are now available for Ubuntu Linux virtual machines.

General availability: Audit Logs of Azure Monitor log queries:

Azure Monitor logs is announcing a new capability to collect audit logs about query execution

General availability: Create AKS clusters without local user accounts:

Disable local accounts for AKS cluster and use AAD only for more secure cluster access.

<u>General availability: AKS auto-certificate rotation:</u>

You no longer need to monitor and manually rotate non-CA certificates on the AKS control plane and agent nodes for compliance or policy reasons.

General availability: AKS node image auto-upgrade:

AKS now handles the routine task of node image upgrade for you.

Public Preview – Updates

<u>Public preview: Azure Percept DK November (2111) software</u> <u>update is available</u>

The Azure Percept November update includes fixes related to security. <u>Over</u> <u>the Air (OTA) package</u> and <u>USB cable update image</u> are available in public preview. Review the <u>update strategy guidance</u> before choosing between the two update methods. Updates are highly recommended in order to keep your device up to date with latest fixes and features.

Public preview of Snowflake connector for Azure Purview:

Azure Purview now supports Snowflake as a data source to help you generate a holistic map of your data landscape with automated data discovery. You can now scan your Snowflake databases to easily bring over metadata into the Azure Purview data map, then manage and govern the Snowflake data in Azure Purview.

Public Preview – Updates

Automated key rotation in Azure Key Vault is now in public preview:

With the Azure Key Vault automated key rotation feature, now in public preview, you can set a rotation policy on a key to schedule automated rotation and configure expiry notifications through Event Grid integration.

This feature enables end-to-end zero-touch key rotation for Azure services data encryption with customer-managed key (CMK) stored in Azure Key Vault.

Public preview: Windows Server guest licensing offer for Azure Stack

To facilitate guest licensing for Azure Stack HCI customers, we are pleased to announce a new offer that brings simplicity and more flexibility for licensing. The new Windows Server subscription for Azure Stack HCI is available in public preview as of December 14, 2021. This offer will allow you to purchase unlimited Windows Server guest licenses for your Azure Stack HCI cluster through your Azure subscription. You can sign up and cancel anytime and preview pricing is \$0 until general availability (GA). At GA, the offer will be charged at \$23.60 per physical core per month. This offer simplifies billing through an all-in-one place Azure subscription and in some cases will be less expensive for customers than the traditional licensing model.

Public Preview – Updates <u>Public preview: Microsoft Defender for Containers adds new</u> <u>capabilities for Kubernetes</u>

Take advantage of several new and improved Kubernetes related capabilities via the Microsoft Defender for Containers offering. Link to Blogpost

Public preview: Azure Kubernetes Service configuration management with GitOps:

The Azure Kubernetes Service (AKS) configuration management feature is now in public preview. This feature provides the same first party GitOps capability to Azure Kubernetes Service (AKS) that was previously available only in Azure Arc-enabled Kubernetes. This also provides an update to the latest Flux v2 GitOps tools for managing configuration and applications in AKS and Azure Arc-enabled Kubernetes clusters. Customers can use the Azure REST API, CLI, Portal, ARM templates, and Bicep to manage Flux in these clusters. GitOps in AKS is included at no extra cost.

Public Preview – Updates <u>Azure Stream Analytics jobs to write to Azure Database for PostgreSQL</u> in public preview

We are introducing a new option for Azure Stream Analytics that allows you to store the output of your analytics into Azure Database for PostgreSQL - Single Server, Flexible Server, or Hyperscale (Citus). With this new output option in Azure Stream Analytics, you can stream data to a dashboarding application, such as Power BI, or store it to a persistent storage database.

Azure Storage: Secure access to storage account from a virtual network/subnet in any region now in public preview

You can secure access to your storage account by enabling a service endpoint for Storage in the subnet and <u>configuring a virtual network rule for that subnet</u> through the Azure storage firewall. You can now configure your storage account to allow access from virtual networks and subnets in any Azure region. By default, service endpoints enable connectivity from a virtual network to a storage account in the same Azure region as the virtual network or it's paired Azure region. This preview enables you to register your subnet to allow service endpoint connectivity to storage accounts in any Azure region across the globe.

Public Preview – Updates

Azure Storage: Attribute-based Access Control (ABAC) conditions with principal attributes now in public preview

Attribute-based Access Control (ABAC) is an authorization mechanism that defines access levels based on attributes associated with security principals, resources, requests or the environment. You can now use Azure AD custom security attributes for principals in role assignment conditions for Azure Storage, along with resource and request attributes. Link to Blogpost

Azure Cosmos DB: Python SDK async IO support in public preview:

The Azure Cosmos DB Python SDK async IO support capability can improve Python application performance and responsiveness by running tasks concurrently rather than one after the other. Now you can allow your Python application to take advantage of time that would normally be spent waiting for an IO response to run other tasks. This new capability can also benefit data scientists, data engineers, and data analysts that use Python to read or manipulate data in Azure Cosmos DB.

Additional Public Preview updates:

Azure HDInsight 2018-06-01 preview API will be retired on 30 November 2024:

Transition to the new Azure 'HDInsight API 2021-06-01' before 30 November 2024.

Azure Monitor containers insights preview version for Azure Red Hat OpenShift v4.x will be retired by 31 May 2022

Transition to Container Insights by 31 May 2022.

Public preview availability of Virtual Machine restore points

Take multi-disk consistent point in time snapshots of all the disks attached to a VM for backup and disaster recovery purposes.

Microsoft Defender for Cloud: Public preview updates for November 2021:

Public preview enhancements and updates released for Microsoft Defender for Cloud in November 2021.

Public preview: FSLogix profiles support for Azure AD-joined VMs for Azure Virtual Desktop:

Create an Azure Files share to store FSLogix profiles and configure it to support Azure AD authentication.

Public preview: Measure product effectiveness with new user analytics experience in Application Insights:

A new experience based on Google's "HEART framework" helps you measure product effectiveness.

Public preview: Azure Monitor action rules are now 'alert processing rules':

We are enhancing the preview of alert processing rules with capabilities for richer at-scale management. <u>Azure Communication Services: Short code functionality for SMS now available in public preview</u>: Execute high-volume SMS campaigns in seconds with easy, automated short code functionality.

Azure Blog – Articles & Announcements New satellite connectivity and geospatial capabilities with Azure Space

- The power of extracting and leveraging data collected from space can transform entire industries and create new paradigms. Azure Space, through partnerships, space data, our collaboration tools, and Microsoft services and capabilities, unlock powerful possibilities for customers.
- Expand hybrid management tools with Red Hat Ansible Automation Platform on Azure
- Organizations are looking to accelerate innovation through improved IT operations, better platform resiliency, and a unified hybrid cloud control plane. For Red Hat and Azure customers, we're now expanding the set of Red Hat management tools that run on Azure with the launch of the Red Hat Ansible Automation Platform on Azure.



Azure Blog – Articles & Announcements Updates to Azure Files: NFS v4.1, higher performance limits, and reserved instance pricing

Azure Files offers fully managed, simple, secure, and serverless enterprise-grade cloud file shares. On the Azure Files team, our mission is to expand Azure Files to more platforms and workloads. We recently took a huge step in workload expansion by announcing the general availability of our NFS v4.1 shares.

<u>4 reasons to attend the Put Responsible AI into Practice Azure digital event</u>

Al is transforming business and the world. However, Al models learn from the data. Biases that exist in society will exist in the models. Human judgment must be the overriding factor, ensuring that Al models benefit and are inclusive of everyone. Equally important, Al must inspire trust in customers that their data is being used appropriately. These are key reasons that responsible approaches to Al are so critical, and you can learn how to put responsible Al into practice.



Azure Blog – Articles & Announcements <u>5 reasons Azure Databricks is best for Hadoop workloads</u>

Due to the complexity, high cost of operations, and unscalable infrastructure, on-premises Hadoop platforms have often not delivered on their initial promises to impact business value. As a result, many enterprises are now seeking to modernize their Hadoop platforms to cloud data platforms.

Microsoft named a Leader in The Forrester Wave: Enterprise iPaaS, 2021

We are thrilled to share that Microsoft has been named as a Leader in the Forrester Wave for Enterprise Integration-Platform-as-a-Service (iPaaS), 2021. Azure Integration Services helps customers connect applications, data, and services on-premises and in the cloud, helping enterprises create new revenue opportunities with an API-driven partner and developer ecosystem and boost productivity with secure and automated workflows.



Azure Blog – Articles & Announcements Geospatial imagery unlocks new cloud computing scenarios on Azure

In the year since Azure Space was announced, Microsoft has focused on extending its Azure Space ecosystem by partnering with industry leaders in the space community to empower customers and partners to achieve more. Today, Microsoft is expanding on its mission to make Azure Space the platform and ecosystem of choice for the space community through a new partnership with Airbus and the general availability of their premium satellite imagery and elevation data in Microsoft's Azure Maps.



Azure Blog – Articles & Announcements Microsoft named a Leader in 2021 Gartner® Magic Quadrant[™] for Cloud DBMS Platforms

We are pleased to share that Microsoft is named a Leader in the 2021 Gartner® Magic Quadrant[™] for Cloud Database Management Systems. This placement reflects our ability to execute and our completeness of vision, and we feel is a testament to our ongoing innovation and the integration of a comprehensive data portfolio into Microsoft's cloud data ecosystem.

<u>New resources and tools to enable product leaders to implement AI</u> <u>responsibly</u>

As AI becomes more deeply embedded in our everyday lives, it is incumbent upon all of us to be thoughtful and responsible in how we apply it to benefit people and society. Join our digital event, Put Responsible AI into Practice, to learn more about these updates, including new guidelines for product leaders and a Responsible AI ashboard for data scientists and developers.

Azure Marketplace & Partner Updates Load Balancer Enterprise ADC



A fully featured Load Balancer ADC, perfect for high-performing hybrid and multi-cloud environments. The Advanced Load Balancer Enterprise ADC provides advanced Layer 4/7 load balancing, automatically distributing incoming application traffic across Azure-hosted workloads. Rock-solid performance and availability, simple and intuitive management, and unlimited 24/7 access to technical support are all offered as standard.

Product Information

Quick Start Guide

Azure Marketplace & Partner Updates Tartabit IoT Bridge



Bridge LPWAN & LWM2M devices quickly to your Azure services to build world class IoT solutions.

The Tartabit IoT Bridge provides rapid integration between low-power wide area network (LPWAN) devices and the Microsoft Azure ecosystem. The IoT Bridge supports connecting NB-IoT, Cat-M and LORA devices via LPWAN optimized protocols. On the Azure side, the IoT Bridge supports integrating to Azure IoT Hub, Azure IoT Central, Azure Event Hub, and Azure CosmosDB to provide several bi-directional options depending on your use case. This is accomplished with a low/no-code environment to enable rapid deployment of production grade IoT solutions without needing to host custom developed servers and self-managed infrastructure.

Link to marketplace page

<u>LWM2M to Azure IoT Hub Quickstart</u>

- Queclink to Azure IoT Hub Quickstart
- Help Documentation

Azure Marketplace & Partner Updates

- <u>Click here</u> for more information regarding Azure Marketplace.
- <u>Click here</u> for more information regarding Azure Partner Updates.

Product Resources

RSS Feeds to Subscribe

- ✓ <u>Azure Status</u>
- ✓ <u>Microsoft Azure Blog</u>
- ✓ Windows Azure OS Updates

General Resources Microsoft Azure SLA Microsoft Azure Service Updates Microsoft Azure Roadmap Microsoft Azure Blog Microsoft Azure Trust Center Microsoft Azure Support: Professional **Direct Details** Microsoft Azure Support: FAQ Microsoft Azure Support for Customers <u>Overview</u>



Meeting Cadence

These meetings are for you to help grow your business, so we want to find the right cadence that works best for you. Currently we are scheduled to meet every:

[Quarter/Month]

Based on your current Azure deployments and use, and your future Business needs, does the **monthly/quarterly frequency** still work for you? Or would you like to change it to meet more/less frequently?



Feedback

What can we do?

Appendix International Phone Numbers:

Country	Language	Toll Free	Toll/Caller Pays
ASIA			
Australia	English	1800481230	282239016
Hong Kong	English	uses PSTN 30713133	30713133
India	English	18002002767	NA
Indonesia	English	78030110899 or 1803442461	NA
Japan	English	120514100	367439670
Malaysia	English	1800881123	377240828
New Zealand	English	508027750	99129355
Philippines	English	180089086407 (Globe); 1800 14410698 (PDLT)	NA
Singapore	English	18004155499	68185420
South Korea	English	806570880	222580921
Sri Lanka	English	2424641	NA
Taiwan	English	800666807	226507397
Thailand	English	18004413930	NA
EMEA			
Algeria	English	213 21 89 10 70 code 5050	NA
Austria	English	800201948	1206091532
Azerbaijan	English	01 24 37 35 55 code 5050	NA
Bahrain	English	80081344	NA
Belarus	English	8, wait for dial tone, then dial 800 101, wait, then dial 877 635 5166	2 stage
Belgium	English	0800 81262	02 7007138
Bulgaria	English	8001194427	NA
Croatia	English	800806169	NA
Cyprus	English	800 92535	NA
Czech Republic	English	800 701529	239016565
Denmark	English	80602747	43314534
Egypt	English	0800 0000462	NA
Estonia	English	8000044515	NA
Finland	English	0800 94408	09 72519810
France	English	805540590	157324293
Germany	English	0800 5892328	69380789275
Greece	English	00800 44149488	NA
Hungary	English	068 0987439	7789413
Iceland	English	8008042	NA
Ireland	English	1800 818870	NA
Israel	English	1809344223	16569882
Italy	English	800 930885	223331129
Jordan	English	1-880-0000 962, then 877-866-4293	2 stage

Country	language	Toll Free	Toll/Caller Pays
Kazakhstan	English	8 800 0801000 code 5050	NA
Kenya	English	254 20 2868800 code 5050	NA
Kuwait	English	965 243 1071 code 5050	NA
Latvia	English	8004453	NA
Liechtenstein	English	Uses Switzerland	
Lithuania	English	880031537	NA
Luxembourg	English	80021199	24871604
Macedonia	English	0800-94288 389, wait for message/tone then 877-635-5171	2 stage
Malta	English	80062289	NA
Montenegro	English	080 081 110 code 5050	NA
Morocco	English	002-11-0011 212, then 877-635-5182	2 stage
Netherlands	English	0800 020 2714	207006094
Nigeria	English	234 127 10 156 code 5050	NA
Norway	English	80031067	22310769
Oman	English	80077590	NA
Pakistan	English	00-800-01-001 then 877-635-5183	2 stage
Pakistan Poland	English	800702421	223060667
Poland Portugal	English	800208990	213665270
Portugal Qatar	English	9744119418 code 5050	213665270 NA
	English	800896709	372766909
Romania			
Russia	English	88005551262	4999228688
Saudi Arabia	English	8008445099	NA
Serbia	English	800190210	NA
Slovakia	English	800192380	268622084
Slovenia	English	80081222	NA
South Africa	English	800007129	NA
Spain	English	900814198	912718161
Sweden	English	201605860	851761925
Switzerland	English	0800 001100	446545823
Tunisia	English	216 71 16 87 00 code 5050	NA
Turkey	English	00800 448828622	NA
UK	English	0800 783 9498	2034506227
Ukraine	English	0 800 502 279	NA
United Arab Emirates	English	8000 4448107	NA
North America			
US	English	866-270-5942	NA
Puerto Rico	English	866-270-5942	212-824-0767
Canada	English	866-270-5942	NA
LATAM			
Argentina	English	8002661513	1153540351
Brazil	English	0800 047 4957	1147001860
Chile	English	12300200990	NA
Colombia	English	01 800 5 1 82350	NA
Costa Rica	English	8774663049	NA
Dominican Republic	English	8892112910	NA
Ecuador	English	800-225-528 593, then 877-635-7024	2 stage
El Salvador	English	8006974	NA
Guatemala	English	999-9192 502, then 877-635-7030	2 stage
Mexico	English	18000834909	5547380310
Panama	English	18005072787	NA
Paraquay	English	98004410110	NA
Peru	English	0800 77269	NA
Trinidad & Tobago	English	1-8774834359	NA
Uruquay	English	4110027631	NA
Venezuela	English	8001006249	NA



Thank you!

Please confirm when we can schedule our next service review with you