3- All roles

Built-in role	Description	ID
General		
Contributor	Grants full access to manage all resources, but does not allow you to assign roles in Azure RBAC, manage assignments in Azure Blueprints, or share image galleries.	b24988ac-6180-42a0-ab88-20f7382dd2
Owner	Grants full access to manage all resources, including the ability to assign roles in Azure RBAC.	8e3af657-a8ff-443c-a75c-2fe8c4bcb6
Reader	View all resources, but does not allow you to make any changes.	acdd72a7-3385-48ef-bd42-f606fba81a
Role Based Access Control Administrator	Manage access to Azure resources by assigning roles using Azure RBAC. This role does not allow you to manage access using other ways, such as Azure Policy.	f58310d9-a9f6-439a-9e8d-f62e7b41a1
User Access Administrator	Lets you manage user access to Azure resources.	18d7d88d-d35e-4fb5-a5c3-7773c20a72
Compute		
Classic Virtual Machine Contributor	Lets you manage classic virtual machines, but not access to them, and not the virtual network or storage account they're connected to.	d73bb868-a0df-4d4d-bd69-98a00b01fd
Data Operator for Managed Disks	Provides permissions to upload data to empty managed disks, read, or export data of managed disks (not attached to running VMs) and snapshots using SAS URIs and Azure AD authentication.	959f8984-c045-4866-89c7-12bf9737be
Disk Backup Reader	Provides permission to backup vault to perform disk backup.	3e5e47e6-65f7-47ef-90b5-e5dd4d455f
Disk Pool Operator	Provide permission to StoragePool Resource Provider to manage disks added to a disk pool.	60fc6e62-5479-42d4-8bf4-67625fcc28
Disk Restore Operator	Provides permission to backup vault to perform disk restore.	b50d9833-a0cb-478e-945f-707fcc997d
Disk Snapshot Contributor	Provides permission to backup vault to manage disk snapshots.	7efff54f-a5b4-42b5-a1c5-5411624893

Built-in role	Description	ID
Virtual Machine Administrator Login	View Virtual Machines in the portal and login as administrator	1c0163c0-47e6-4577-8991-ea5c82e28(
Virtual Machine Contributor	Create and manage virtual machines, manage disks, install and run software, reset password of the root user of the virtual machine using VM extensions, and manage local user accounts using VM extensions. This role does not grant you management access to the virtual network or storage account the virtual machines are connected to. This role does not allow you to assign roles in Azure RBAC.	9980e02c-c2be-4d73-94e8-173b1dc7c1
Virtual Machine Data Access Administrator (preview)	Manage access to Virtual Machines by adding or removing role assignments for the Virtual Machine Administrator Login and Virtual Machine User Login roles. Includes an ABAC condition to constrain role assignments.	66f75aeb-eabe-4b70-9f1e-c350c4c9ac
Virtual Machine User Login	View Virtual Machines in the portal and login as a regular user.	fb879df8-f326-4884-b1cf-06f3ad86be
Windows Admin Center Administrator Login	Let's you manage the OS of your resource via Windows Admin Center as an administrator.	a6333a3e-0164-44c3-b281-7a577aff28
Networking		
Azure Front Door Domain Contributor	Can manage Azure Front Door domains, but can't grant access to other users.	0ab34830-df19-4f8c-b84e-aa85b8afa(
Azure Front Door Domain Reader	Can view Azure Front Door domains, but can't make changes.	0f99d363-226e-4dca-9920-b807cf8e1a
Azure Front Door Profile Reader	Can view AFD standard and premium profiles and their endpoints, but can't make changes.	662802e2-50f6-46b0-aed2-e834bacc6(
Azure Front Door Secret Contributor	Can manage Azure Front Door secrets, but can't grant access to other users.	3f2eb865-5811-4578-b90a-6fc6fa0df8
Azure Front Door Secret Reader	Can view Azure Front Door secrets, but can't make changes.	0db238c4-885e-4c4f-a933-aa2cef684f
CDN Endpoint Contributor	Can manage CDN endpoints, but can't grant access to other users.	426e0c7f-0c7e-4658-b36f-ff54d6c29k
CDN Endpoint Reader	Can view CDN endpoints, but can't make changes.	871e35f6-b5c1-49cc-a043-bde969a0f2

Built-in role	Description	ID
CDN Profile Contributor	Can manage CDN profiles and their endpoints, but can't grant access to other users.	ec156ff8-a8d1-4d15-830c-5b80698ca4
CDN Profile Reader	Can view CDN profiles and their endpoints, but can't make changes.	8f96442b-4075-438f-813d-ad51ab401
Classic Network Contributor	Lets you manage classic networks, but not access to them.	b34d265f-36f7-4a0d-a4d4-e158ca92e
DNS Zone Contributor	Lets you manage DNS zones and record sets in Azure DNS, but does not let you control who has access to them.	befefa01-2a29-4197-83a8-272ff33ce
Network Contributor	Lets you manage networks, but not access to them.	4d97b98b-1d4f-4787-a291-c67834d212
Private DNS Zone Contributor	Lets you manage private DNS zone resources, but not the virtual networks they are linked to.	b12aa53e-6015-4669-85d0-8515ebb3ae
Traffic Manager Contributor	Lets you manage Traffic Manager profiles, but does not let you control who has access to them.	a4b10055-b0c7-44c2-b00f-c7b5b3550
Storage		
Avere Contributor	Can create and manage an Avere vFXT cluster.	4f8fab4f-1852-4a58-a46a-8eaf358af
Avere Operator	Used by the Avere vFXT cluster to manage the cluster	c025889f-8102-4ebf-b32c-fc0c6f0c6
Backup Contributor	Lets you manage backup service, but can't create vaults and give access to others	5e467623-bb1f-42f4-a55d-6e525e113
Backup Operator	Lets you manage backup services, except removal of backup, vault creation and giving access to others	00c29273-979b-4161-815c-10b084fb93
Backup Reader	Can view backup services, but can't make changes	a795c7a0-d4a2-40c1-ae25-d81f01202
Classic Storage Account Contributor	Lets you manage classic storage accounts, but not access to them.	86e8f5dc-a6e9-4c67-9d15-de283e8ea

Built-in role	Description	ID
Classic Storage Account Key Operator Service Role	Classic Storage Account Key Operators are allowed to list and regenerate keys on Classic Storage Accounts	985d6b00-f706-48f5-a6fe-d0ca12fb66
Data Box Contributor	Lets you manage everything under Data Box Service except giving access to others.	add466c9-e687-43fc-8d98-dfcf8d720k
Data Box Reader	Lets you manage Data Box Service except creating order or editing order details and giving access to others.	028f4ed7-e2a9-465e-a8f4-9c0ffdfdc0
Data Lake Analytics Developer	Lets you submit, monitor, and manage your own jobs but not create or delete Data Lake Analytics accounts.	47b7735b-770e-4598-a7da-8b91488b4c
Defender for Storage Data Scanner	Grants access to read blobs and update index tags. This role is used by the data scanner of Defender for Storage.	1e7ca9b1-60d1-4db8-a914-f2ca1ff27c
Elastic SAN Owner	Allows for full access to all resources under Azure Elastic SAN including changing network security policies to unblock data path access	80dcbedb-47ef-405d-95bd-188a1b4ac4
Elastic SAN Reader	Allows for control path read access to Azure Elastic SAN	af6a70f8-3c9f-4105-acf1-d719e9fca4
Elastic SAN Volume Group Owner	Allows for full access to a volume group in Azure Elastic SAN including changing network security policies to unblock data path access	a8281131-f312-4f34-8d98-ae12be9f0c
Reader and Data Access	Lets you view everything but will not let you delete or create a storage account or contained resource. It will also allow read/write access to all data contained in a storage account via access to storage account keys.	c12c1c16-33a1-487b-954d-41c89c60f3
Storage Account Backup Contributor	Lets you perform backup and restore operations using Azure Backup on the storage account.	e5e2a7ff-d759-4cd2-bb51-3152d37e2e
Storage Account Contributor	Permits management of storage accounts. Provides access to the account key, which can be used to access data via Shared Key authorization.	17d1049b-9a84-46fb-8f53-869881c3d3
Storage Account Key Operator Service Role	Permits listing and regenerating storage account access keys.	81a9662b-bebf-436f-a333-f67b298800
Storage Blob Data Contributor	Read, write, and delete Azure Storage containers and blobs. To learn which actions are required for a given data operation, see Permissions for calling blob and queue data operations.	ba92f5b4-2d11-453d-a403-e96b0029c9

Built-in role	Description	ID
Storage Blob Data Owner	Provides full access to Azure Storage blob containers and data, including assigning POSIX access control. To learn which actions are required for a given data operation, see Permissions for calling blob and queue data operations.	b7e6dc6d-f1e8-4753-8033-0f276bb09
Storage Blob Data Reader	Read and list Azure Storage containers and blobs. To learn which actions are required for a given data operation, see Permissions for calling blob and queue data operations.	2a2b9908-6ea1-4ae2-8e65-a410df84e
Storage Blob Delegator	Get a user delegation key, which can then be used to create a shared access signature for a container or blob that is signed with Azure AD credentials. For more information, see Create a user delegation SAS.	db58b8e5-c6ad-4a2a-8342-4190687cb
Storage File Data Privileged Contributor	Allows for read, write, delete, and modify ACLs on files/directories in Azure file shares by overriding existing ACLs/NTFS permissions. This role has no built-in equivalent on Windows file servers.	69566ab7-960f-475b-8e7c-b3118f30c
Storage File Data Privileged Reader	Allows for read access on files/directories in Azure file shares by overriding existing ACLs/NTFS permissions. This role has no built-in equivalent on Windows file servers.	b8eda974-7b85-4f76-af95-65846b26d
Storage File Data SMB Share Contributor	Allows for read, write, and delete access on files/directories in Azure file shares. This role has no built-in equivalent on Windows file servers.	0c867c2a-1d8c-454a-a3db-ab2ea1bdc
Storage File Data SMB Share Elevated Contributor	Allows for read, write, delete, and modify ACLs on files/directories in Azure file shares. This role is equivalent to a file share ACL of change on Windows file servers.	a7264617-510b-434b-a828-9731dc254
Storage File Data SMB Share Reader	Allows for read access on files/directories in Azure file shares. This role is equivalent to a file share ACL of read on Windows file servers.	aba4ae5f-2193-4029-9191-0cb91df5e
Storage Queue Data Contributor	Read, write, and delete Azure Storage queues and queue messages. To learn which actions are required for a given data operation, see Permissions for calling blob and queue data operations.	974c5e8b-45b9-4653-ba55-5f855dd0f
Storage Queue Data Message Processor	Peek, retrieve, and delete a message from an Azure Storage queue. To learn which actions are required for a given data operation, see Permissions for calling blob and queue data operations.	8a0f0c08-91a1-4084-bc3d-661d67233
Storage Queue Data Message Sender	Add messages to an Azure Storage queue. To learn which actions are required for a given data operation, see Permissions for calling blob and queue data operations.	c6a89b2d-59bc-44d0-9896-0f6e12d7b
Storage Queue Data Reader	Read and list Azure Storage queues and queue messages. To learn which actions are required for a given data operation, see Permissions for calling blob and queue data operations.	19e7f393-937e-4f77-808e-94535e297
Storage Table Data Contributor	Allows for read, write and delete access to Azure Storage tables and entities	0a9a7e1f-b9d0-4cc4-a60d-0319b160a

Built-in role	Description	ID
Storage Table Data Reader	Allows for read access to Azure Storage tables and entities	76199698-9eea-4c19-bc75-cec21354c6
Web		
Azure Maps Data Contributor	Grants access to read, write, and delete access to map related data from an Azure maps account.	8f5e0ce6-4f7b-4dcf-bddf-e6f48634a2
Azure Maps Data Reader	Grants access to read map related data from an Azure maps account.	423170ca-a8f6-4b0f-8487-9e4eb8f49b
Azure Spring Cloud Config Server Contributor	Allow read, write and delete access to Azure Spring Cloud Config Server	a06f5c24-21a7-4e1a-aa2b-f19eb66684
Azure Spring Cloud Config Server Reader	Allow read access to Azure Spring Cloud Config Server	d04c6db6-4947-4782-9e91-30a88feb7b
Azure Spring Cloud Data Reader	Allow read access to Azure Spring Cloud Data	b5537268-8956-4941-a8f0-646150406f
Azure Spring Cloud Service Registry Contributor	Allow read, write and delete access to Azure Spring Cloud Service Registry	f5880b48-c26d-48be-b172-7927bfa1c8
Azure Spring Cloud Service Registry Reader	Allow read access to Azure Spring Cloud Service Registry	cff1b556-2399-4e7e-856d-a8f754be7b
Media Services Account Administrator	Create, read, modify, and delete Media Services accounts; read-only access to other Media Services resources.	054126f8-9a2b-4f1c-a9ad-eca461f084
Media Services Live Events Administrator	Create, read, modify, and delete Live Events, Assets, Asset Filters, and Streaming Locators; read-only access to other Media Services resources.	532bc159-b25e-42c0-969e-a1d439f60d
Media Services Media Operator	Create, read, modify, and delete Assets, Asset Filters, Streaming Locators, and Jobs; read-only access to other Media Services resources.	e4395492-1534-4db2-bedf-88c1462158
Media Services Policy Administrator	Create, read, modify, and delete Account Filters, Streaming Policies, Content Key Policies, and Transforms; read-only access to other Media Services resources. Cannot create Jobs, Assets or Streaming resources.	c4bba371-dacd-4a26-b320-7250bca963
Media Services Streaming Endpoints Administrator	Create, read, modify, and delete Streaming Endpoints; read-only access to other Media Services resources.	99dba123-b5fe-44d5-874c-ced7199a58

Built-in role	Description	ID
Search Index Data Contributor	Grants full access to Azure Cognitive Search index data.	8ebe5a00-799e-43f5-93ac-243d3dce84
Search Index Data Reader	Grants read access to Azure Cognitive Search index data.	1407120a-92aa-4202-b7e9-c0e197c71c
Search Service Contributor	Lets you manage Search services, but not access to them.	7ca78c08-252a-4471-8644-bb5ff32d4b
SignalR AccessKey Reader	Read SignalR Service Access Keys	04165923-9d83-45d5-8227-78b77b0a68
SignalR App Server	Lets your app server access SignalR Service with AAD auth options.	420fcaa2-552c-430f-98ca-3264be480c
SignalR REST API Owner	Full access to Azure SignalR Service REST APIs	fd53cd77-2268-407a-8f46-7e7863d0f5
SignalR REST API Reader	Read-only access to Azure SignalR Service REST APIs	ddde6b66-c0df-4114-a159-3618637b30
SignalR Service Owner	Full access to Azure SignalR Service REST APIs	7e4f1700-ea5a-4f59-8f37-079cfe29dc
SignalR/Web PubSub Contributor	Create, Read, Update, and Delete SignalR service resources	8cf5e20a-e4b2-4e9d-b3a1-5ceb692c27
Web Plan Contributor	Manage the web plans for websites. Does not allow you to assign roles in Azure RBAC.	2cc479cb-7b4d-49a8-b449-8c00fd0f0a
Website Contributor	Manage websites, but not web plans. Does not allow you to assign roles in Azure RBAC.	de139f84-1756-47ae-9be6-808fbbe847
Containers		
AcrDelete	Delete repositories, tags, or manifests from a container registry.	c2f4ef07-c644-48eb-af81-4b1b4947fb
AcrImageSigner	Push trusted images to or pull trusted images from a container registry enabled for content trust.	6cef56e8-d556-48e5-a04f-b8e6411468

Built-in role	Description	ID
AcrPull	Pull artifacts from a container registry.	7f951dda-4ed3-4680-a7ca-43fe172d53
AcrPush	Push artifacts to or pull artifacts from a container registry.	8311e382-0749-4cb8-b61a-304f252e45
AcrQuarantineReader	Pull quarantined images from a container registry.	cdda3590-29a3-44f6-95f2-9f980659el
AcrQuarantineWriter	Push quarantined images to or pull quarantined images from a container registry.	c8d4ff99-41c3-41a8-9f60-21dfdad59(
Azure Kubernetes Fleet Manager RBAC Admin	This role grants admin access - provides write permissions on most objects within a namespace, with the exception of ResourceQuota object and the namespace object itself. Applying this role at cluster scope will give access across all namespaces.	434fb43a-c01c-447e-9f67-c3ad923cf;
Azure Kubernetes Fleet Manager RBAC Cluster Admin	Lets you manage all resources in the fleet manager cluster.	18ab4d3d-a1bf-4477-8ad9-8359bc988f
Azure Kubernetes Fleet Manager RBAC Reader	Allows read-only access to see most objects in a namespace. It does not allow viewing roles or role bindings. This role does not allow viewing Secrets, since reading the contents of Secrets enables access to ServiceAccount credentials in the namespace, which would allow API access as any ServiceAccount in the namespace (a form of privilege escalation). Applying this role at cluster scope will give access across all namespaces.	30b27cfc-9c84-438e-b0ce-70e35255dt
Azure Kubernetes Fleet Manager RBAC Writer	Allows read/write access to most objects in a namespace. This role does not allow viewing or modifying roles or role bindings. However, this role allows accessing Secrets as any ServiceAccount in the namespace, so it can be used to gain the API access levels of any ServiceAccount in the namespace. Applying this role at cluster scope will give access across all namespaces.	5af6afb3-c06c-4fa4-8848-71a8aee05(
Azure Kubernetes Service Cluster Admin Role	List cluster admin credential action.	0ab0b1a8-8aac-4efd-b8c2-3ee1fb270l
Azure Kubernetes Service Cluster Monitoring User	List cluster monitoring user credential action.	1afdec4b-e479-420e-99e7-f82237c7c5
Azure Kubernetes Service Cluster User Role	List cluster user credential action.	4abbcc35-e782-43d8-92c5-2d3f1bd225
Azure Kubernetes Service Contributor	Grants access to read and write Azure Kubernetes Service clusters	ed7f3fbd-7b88-4dd4-

Built-in role	Description	ID
Role		9017-9adb7ce333
Azure Kubernetes Service RBAC Admin	Lets you manage all resources under cluster/namespace, except update or delete resource quotas and namespaces.	3498e952-d568-435e-9b2c-8d77e338d7
Azure Kubernetes Service RBAC Cluster Admin	Lets you manage all resources in the cluster.	b1ff04bb-8a4e-4dc4-8eb5-8693973ce1
Azure Kubernetes Service RBAC Reader	Allows read-only access to see most objects in a namespace. It does not allow viewing roles or role bindings. This role does not allow viewing Secrets, since reading the contents of Secrets enables access to ServiceAccount credentials in the namespace, which would allow API access as any ServiceAccount in the namespace (a form of privilege escalation). Applying this role at cluster scope will give access across all namespaces.	7f6c6a51-bcf8-42ba-9220-52d62157d7
Azure Kubernetes Service RBAC Writer	Allows read/write access to most objects in a namespace. This role does not allow viewing or modifying roles or role bindings. However, this role allows accessing Secrets and running Pods as any ServiceAccount in the namespace, so it can be used to gain the API access levels of any ServiceAccount in the namespace. Applying this role at cluster scope will give access across all namespaces.	a7ffa36f-339b-4b5c-8bdf-e2c188b2c0
Databases		
Azure Connected SQL Server Onboarding	Allows for read and write access to Azure resources for SQL Server on Arc-enabled servers.	e8113dce-c529-4d33-91fa-e9b9726175
Cosmos DB Account Reader Role	Can read Azure Cosmos DB account data. See DocumentDB Account Contributor for managing Azure Cosmos DB accounts.	fbdf93bf-df7d-467e-a4d2-9458aa136
Cosmos DB Operator	Lets you manage Azure Cosmos DB accounts, but not access data in them. Prevents access to account keys and connection strings.	230815da-be43-4aae-9cb4-875f7bd00
CosmosBackupOperator	Can submit restore request for a Cosmos DB database or a container for an account	db7b14f2-5adf-42da-9f96-f2ee17bab5
CosmosRestoreOperator	Can perform restore action for Cosmos DB database account with continuous backup mode	5432c526-bc82-444a-b7ba-57c5b0b5b3
DocumentDB Account Contributor	Can manage Azure Cosmos DB accounts. Azure Cosmos DB is formerly known as DocumentDB.	5bd9cd88-fe45-4216-938b-f97437e154
Redis Cache Contributor	Lets you manage Redis caches, but not access to them.	e0f68234-74aa-48ed-b826-c38b57376

Built-in role	Description	ID
SQL DB Contributor	Lets you manage SQL databases, but not access to them. Also, you can't manage their security-related policies or their parent SQL servers.	9b7fa17d-e63e-47b0-bb0a-15c516ac8{
SQL Managed Instance Contributor	Lets you manage SQL Managed Instances and required network configuration, but can't give access to others.	4939a1f6-9ae0-4e48-a1e0-f2cbe8973{
SQL Security Manager	Lets you manage the security-related policies of SQL servers and databases, but not access to them.	056cd41c-7e88-42e1-933e-88ba6a50c{
SQL Server Contributor	Lets you manage SQL servers and databases, but not access to them, and not their security-related policies.	6d8ee4ec-f05a-4a1d-8b00-a9b17e38b4
Analytics		
Azure Event Hubs Data Owner	Allows for full access to Azure Event Hubs resources.	f526a384-b230-433a-b45c-95f59c4a2{
Azure Event Hubs Data Receiver	Allows receive access to Azure Event Hubs resources.	a638d3c7-ab3a-418d-83e6-5f17a39d4{
Azure Event Hubs Data Sender	Allows send access to Azure Event Hubs resources.	2b629674-e913-4c01-ae53-ef4638d8f{
Data Factory Contributor	Create and manage data factories, as well as child resources within them.	673868aa-7521-48a0-acc6-0f60742d39
Data Purger	Delete private data from a Log Analytics workspace.	150f5e0c-0603-4f03-8c7f-cf70034c4{
HDInsight Cluster Operator	Lets you read and modify HDInsight cluster configurations.	61ed4efc-fab3-44fd-b111-e24485cc13
HDInsight Domain Services Contributor	Can Read, Create, Modify and Delete Domain Services related operations needed for HDInsight Enterprise Security Package	8d8d5a11-05d3-4bda-a417-a08778121{
Log Analytics Contributor	Log Analytics Contributor can read all monitoring data and edit monitoring settings. Editing monitoring settings includes adding the VM extension to VMs; reading storage account keys to be able to configure collection of logs from Azure Storage; adding solutions; and configuring Azure diagnostics on all Azure resources.	92aaf0da-9dab-42b6-94a3-d43ce8d162
Log Analytics Reader	Log Analytics Reader can view and search all monitoring data as well as and view monitoring settings, including	73c42c96-874c-492b-

Built-in role	Description	ID
	viewing the configuration of Azure diagnostics on all Azure resources.	b04d-ab87d138a8
Schema Registry Contributor (Preview)	Read, write, and delete Schema Registry groups and schemas.	5dffeca3-4936-4216-b2bc-10343a5abb
Schema Registry Reader (Preview)	Read and list Schema Registry groups and schemas.	2c56ea50-c6b3-40a6-83c0-9d98858bc7
Stream Analytics Query Tester	Lets you perform query testing without creating a stream analytics job first	1ec5b3c1-b17e-4e25-8312-2acb3c3c5a
AI + machine learning		
AzureML Compute Operator	Can access and perform CRUD operations on Machine Learning Services managed compute resources (including Notebook VMs).	e503ece1-11d0-4e8e-8e2c-7a6c3bf388
AzureML Data Scientist	Can perform all actions within an Azure Machine Learning workspace, except for creating or deleting compute resources and modifying the workspace itself.	f6c7c914-8db3-469d-8ca1-694a8f32e1
Cognitive Services Contributor	Lets you create, read, update, delete and manage keys of Cognitive Services.	25fbc0a9-bd7c-42a3-aa1a-3b75d497ee
Cognitive Services Custom Vision Contributor	Full access to the project, including the ability to view, create, edit, or delete projects.	c1ff6cc2-c111-46fe-8896-e0ef812ad9
Cognitive Services Custom Vision Deployment	Publish, unpublish or export models. Deployment can view the project but can't update.	5c4089e1-6d96-4d2f-b296-c1bc713727
Cognitive Services Custom Vision Labeler	View, edit training images and create, add, remove, or delete the image tags. Labelers can view the project but can't update anything other than training images and tags.	88424f51-ebe7-446f-bc41-7fa16989e9
Cognitive Services Custom Vision Reader	Read-only actions in the project. Readers can't create or update the project.	93586559-c37d-4a6b-ba08-b9f0940c2d
Cognitive Services Custom Vision Trainer	View, edit projects and train the models, including the ability to publish, unpublish, export the models. Trainers can't create or delete the project.	0a5ae4ab-0d65-4eeb-be61-29fc9b5439
Cognitive Services Data Reader (Preview)	Lets you read Cognitive Services data.	b59867f0-fa02-499b-be73-45a86b5b3e
Cognitive Services Face Recognizer	Lets you perform detect, verify, identify, group, and find similar operations on Face API. This role does not allow	9894cab4-e18a-44aa-

Built-in role	Description	ID
	create or delete operations, which makes it well suited for endpoints that only need inferencing capabilities, following 'least privilege' best practices.	828b-cb588cd6f2
Cognitive Services Metrics Advisor Administrator	Full access to the project, including the system level configuration.	cb43c632-a144-4ec5-977c-e80c4affc3
Cognitive Services OpenAI Contributor	Full access including the ability to fine-tune, deploy and generate text	a001fd3d-188f-4b5d-821b-7da978bf74
Cognitive Services OpenAI User	Read access to view files, models, deployments. The ability to create completion and embedding calls.	5e0bd9bd-7b93-4f28-af87-19fc36ad61
Cognitive Services QnA Maker Editor	Let's you create, edit, import and export a KB. You cannot publish or delete a KB.	f4cc2bf9-21be-47a1-bdf1-5c58043810
Cognitive Services QnA Maker Reader	Let's you read and test a KB only.	466ccd10-b268-4a11-b098-b4849f0241
Cognitive Services Usages Reader	Minimal permission to view Cognitive Services usages.	bba48692-92b0-4667-a9ad-c31c7b334a
Cognitive Services User	Lets you read and list keys of Cognitive Services.	a97b65f3-24c7-4388-baec-2e87135dc9
Internet of things		
Device Update Administrator	Gives you full access to management and content operations	02ca0879-e8e4-47a5-a61e-5c618b76e6
Device Update Content Administrator	Gives you full access to content operations	0378884a-3af5-44ab-8323-f5b22f9f3c
Device Update Content Reader	Gives you read access to content operations, but does not allow making changes	d1ee9a80-8b14-47f0-bdc2-f4a351625a
Device Update Deployments Administrator	Gives you full access to management operations	e4237640-0e3d-4a46-8fda-70bc948564
Device Update Deployments Reader	Gives you read access to management operations, but does not allow making changes	49e2f5d2-7741-4835-8efa-19e1fe35e4
Device Update Reader	Gives you read access to management and content operations, but does not allow making changes	e9dba6fb-3d52-4cf0-

Built-in role	Description	ID
		bce3- f06ce71b9e
IoT Hub Data Contributor	Allows for full access to IoT Hub data plane operations.	4fc6c259- 987e-4a07- 842e- c321cc9d41
IoT Hub Data Reader	Allows for full read access to IoT Hub data-plane properties	b447c946- 2db7-41ec- 983d- d8bf3b1c77
IoT Hub Registry Contributor	Allows for full access to IoT Hub device registry.	4ea46cd5- c1b2-4a8e- 910b- 273211f9ce
IoT Hub Twin Contributor	Allows for read and write access to all IoT Hub device and module twins.	494bdba2- 168f-4f31- a0a1- 191d2f7c02
Mixed reality		
Remote Rendering Administrator	Provides user with conversion, manage session, rendering and diagnostics capabilities for Azure Remote Rendering	3df8b902- 2a6f-47c7- 8cc5- 360e9b272a
Remote Rendering Client	Provides user with manage session, rendering and diagnostics capabilities for Azure Remote Rendering.	d39065c4- c120-43c9- ab0a- 63eed9795f
Spatial Anchors Account Contributor	Lets you manage spatial anchors in your account, but not delete them	8bbe83f1- e2a6-4df7- 8cb4- 4e04d4e5c8
Spatial Anchors Account Owner	Lets you manage spatial anchors in your account, including deleting them	70bbe301- 9835-447d- afdd- 19eb31673C
Spatial Anchors Account Reader	Lets you locate and read properties of spatial anchors in your account	5d51204f- eb77-4b1c- b86a- 2ec626c494
Integration		
API Management Service Contributor	Can manage service and the APIs	312a565d- c81f-4fd8- 895a- 4e21e48d57
API Management Service Operator Role	Can manage service but not the APIs	e022efe7- f5ba-4159- bbe4- b44f577e9b
API Management Service Reader Role	Read-only access to service and APIs	71522526- b88f-4d52- b57f- d31fc3546c

Built-in role	Description	ID
API Management Service Workspace API Developer	Has read access to tags and products and write access to allow: assigning APIs to products, assigning tags to products and APIs. This role should be assigned on the service scope.	9565a273-41b9-4368-97d2-aeb0c976a9
API Management Service Workspace API Product Manager	Has the same access as API Management Service Workspace API Developer as well as read access to users and write access to allow assigning users to groups. This role should be assigned on the service scope.	d59a3e9c-6d52-4a5a-aeed-6bf3cf0e31
API Management Workspace API Developer	Has read access to entities in the workspace and read and write access to entities for editing APIs. This role should be assigned on the workspace scope.	56328988-075d-4c6a-8766-d93edd6725
API Management Workspace API Product Manager	Has read access to entities in the workspace and read and write access to entities for publishing APIs. This role should be assigned on the workspace scope.	73c2c328-d004-4c5e-938c-35c6f5679a
API Management Workspace Contributor	Can manage the workspace and view, but not modify its members. This role should be assigned on the workspace scope.	0c34c906-8d99-4cb7-8bb7-33f5b0a1a
API Management Workspace Reader	Has read-only access to entities in the workspace. This role should be assigned on the workspace scope.	ef1c2c96-4a77-49e8-b9a4-6179fe1d2
App Configuration Data Owner	Allows full access to App Configuration data.	5ae67dd6-50cb-40e7-96ff-dc2bfa4b6
App Configuration Data Reader	Allows read access to App Configuration data.	516239f1-63e1-4d78-a4de-a74fb236a
Azure Relay Listener	Allows for listen access to Azure Relay resources.	26e0b698-aa6d-4085-9386-aadae19001
Azure Relay Owner	Allows for full access to Azure Relay resources.	2787bf04-f1f5-4bfe-8383-c8a24483e
Azure Relay Sender	Allows for send access to Azure Relay resources.	26baccc8-eea7-41f1-98f4-1762cc7f68
Azure Service Bus Data Owner	Allows for full access to Azure Service Bus resources.	090c5cfd-751d-490a-894a-3ce6f11094
Azure Service Bus Data Receiver	Allows for receive access to Azure Service Bus resources.	4f6d3b9b-027b-4f4c-9142-0e5a2a224

Built-in role	Description	ID
Azure Service Bus Data Sender	Allows for send access to Azure Service Bus resources.	69a216fc-b8fb-44d8-bc22-1f3c2cd27a
Azure Stack Registration Owner	Lets you manage Azure Stack registrations.	6f12a6df-dd06-4f3e-bcb1-ce8be60052
EventGrid Contributor	Lets you manage EventGrid operations.	1e241071-0855-49ea-94dc-649edcd759
EventGrid Data Sender	Allows send access to event grid events.	d5a91429-5739-47e2-a06b-3470a27159
EventGrid EventSubscription Contributor	Lets you manage EventGrid event subscription operations.	428e0ff0-5e57-4d9c-a221-2c70d0e0a4
EventGrid EventSubscription Reader	Lets you read EventGrid event subscriptions.	2414bbcf-6497-4faf-8c65-045460748
FHIR Data Contributor	Role allows user or principal full access to FHIR Data	5a1fc7df-4bf1-4951-a576-89034ee01a
FHIR Data Exporter	Role allows user or principal to read and export FHIR Data	3db33094-8700-4567-8da5-1501d4e7e8
FHIR Data Importer	Role allows user or principal to read and import FHIR Data	4465e953-8ced-4406-a58e-0f6e3f3b53
FHIR Data Reader	Role allows user or principal to read FHIR Data	4c8d0bbc-75d3-4935-991f-5f3c56d815
FHIR Data Writer	Role allows user or principal to read and write FHIR Data	3f88fce4-5892-4214-ae73-ba52945599
Integration Service Environment Contributor	Lets you manage integration service environments, but not access to them.	a41e2c5b-bd99-4a07-88f4-9bf657a760
Integration Service Environment Developer	Allows developers to create and update workflows, integration accounts and API connections in integration service environments.	c7aa55d3-1abb-444a-a5ca-5e51e485d6

Built-in role	Description	ID
Intelligent Systems Account Contributor	Lets you manage Intelligent Systems accounts, but not access to them.	03a6d094-3444-4b3d-88af-7477090a9e
Logic App Contributor	Lets you manage logic apps, but not change access to them.	87a39d53-fc1b-424a-814c-f7e04687dc
Logic App Operator	Lets you read, enable, and disable logic apps, but not edit or update them.	515c2055-d9d4-4321-b1b9-bd0c9a0f79
Identity		
Domain Services Contributor	Can manage Azure AD Domain Services and related network configurations	eeaeda52-9324-47f6-8069-5d5bade478
Domain Services Reader	Can view Azure AD Domain Services and related network configurations	361898ef-9ed1-48c2-849c-a8329511064
Managed Identity Contributor	Create, Read, Update, and Delete User Assigned Identity	e40ec5ca-96e0-45a2-b4ff-59039f2c2b
Managed Identity Operator	Read and Assign User Assigned Identity	f1a07417-d97a-45cb-824c-7a74677838
Security		
App Compliance Automation Administrator	Create, read, download, modify and delete reports objects and related other resource objects.	0f37683f-2463-46b6-9ce7-9b788b988b
App Compliance Automation Reader	Read, download the reports objects and related other resource objects.	ffc6bbe0-e443-4c3b-bf54-26581bb2f7
Attestation Contributor	Can read write or delete the attestation provider instance	bbf86eb8-f7b4-4cce-96e4-18cddf81d8
Attestation Reader	Can read the attestation provider properties	fd1bd22b-8476-40bc-a0bc-69b95687b9
Key Vault Administrator	Perform all data plane operations on a key vault and all objects in it, including certificates, keys, and secrets. Cannot manage key vault resources or manage role assignments. Only works for key vaults that use the 'Azure role-based access control' permission model.	00482a5a-887f-4fb3-b363-3b7fe8e744

Built-in role	Description	ID
Key Vault Certificates Officer	Perform any action on the certificates of a key vault, except manage permissions. Only works for key vaults that use the 'Azure role-based access control' permission model.	a4417e6f-fecd-4de8-b567-7b04205569(
Key Vault Contributor	Manage key vaults, but does not allow you to assign roles in Azure RBAC, and does not allow you to access secrets, keys, or certificates.	f25e0fa2-a7c8-4377-a976-54943a77a3
Key Vault Crypto Officer	Perform any action on the keys of a key vault, except manage permissions. Only works for key vaults that use the 'Azure role-based access control' permission model.	14b46e9e-c2b7-41b4-b07b-48a6ebf606
Key Vault Crypto Service Encryption User	Read metadata of keys and perform wrap/unwrap operations. Only works for key vaults that use the 'Azure role-based access control' permission model.	e147488a-f6f5-4113-8e2d-b22465e65b
Key Vault Crypto User	Perform cryptographic operations using keys. Only works for key vaults that use the 'Azure role-based access control' permission model.	12338af0-0e69-4776-bea7-57ae8d2974
Key Vault Data Access Administrator (preview)	Manage access to Azure Key Vault by adding or removing role assignments for the Key Vault Administrator, Key Vault Certificates Officer, Key Vault Crypto Officer, Key Vault Crypto Service Encryption User, Key Vault Crypto User, Key Vault Reader, Key Vault Secrets Officer, or Key Vault Secrets User roles. Includes an ABAC condition to constrain role assignments.	8b54135c-b56d-4d72-a534-26097cfdc8
Key Vault Reader	Read metadata of key vaults and its certificates, keys, and secrets. Cannot read sensitive values such as secret contents or key material. Only works for key vaults that use the 'Azure role-based access control' permission model.	21090545-7ca7-4776-b22c-e363652d74
Key Vault Secrets Officer	Perform any action on the secrets of a key vault, except manage permissions. Only works for key vaults that use the 'Azure role-based access control' permission model.	b86a8fe4-44ce-4948-aee5-eccb2c155d
Key Vault Secrets User	Read secret contents. Only works for key vaults that use the 'Azure role-based access control' permission model.	4633458b-17de-408a-b874-0445c86b69
Managed HSM contributor	Lets you manage managed HSM pools, but not access to them.	18500a29-7fe2-46b2-a342-b16a415e10
Microsoft Sentinel Automation Contributor	Microsoft Sentinel Automation Contributor	f4c81013-99ee-4d62-a7ee-b3f1f64859
Microsoft Sentinel Contributor	Microsoft Sentinel Contributor	ab8e14d6-4a74-4a29-9ba8-549422adda
Microsoft Sentinel Playbook Operator	Microsoft Sentinel Playbook Operator	51d6186e-6489-4900-

Built-in role	Description	ID
		b93f-92e23144c
Microsoft Sentinel Reader	Microsoft Sentinel Reader	8d289c81-5878-46d4-8554-54e1e3d8b5
Microsoft Sentinel Responder	Microsoft Sentinel Responder	3e150937-b8fe-4cfb-8069-0eaf05ecd0
Security Admin	View and update permissions for Microsoft Defender for Cloud. Same permissions as the Security Reader role and can also update the security policy and dismiss alerts and recommendations. For Microsoft Defender for IoT, see Azure user roles for OT and Enterprise IoT monitoring.	fb1c8493-542b-48eb-b624-b4c8fea62a
Security Assessment Contributor	Lets you push assessments to Microsoft Defender for Cloud	612c2aa1-cb24-443b-ac28-3ab7272de
Security Manager (Legacy)	This is a legacy role. Please use Security Admin instead.	e3d13bf0-dd5a-482e-ba6b-9b8433878
Security Reader	View permissions for Microsoft Defender for Cloud. Can view recommendations, alerts, a security policy, and security states, but cannot make changes. For Microsoft Defender for IoT, see Azure user roles for OT and Enterprise IoT monitoring.	39bc4728-0917-49c7-9d2c-d95423bc2
DevOps		
DevTest Labs User	Lets you connect, start, restart, and shutdown your virtual machines in your Azure DevTest Labs.	76283e04-6283-4c54-8f91-bcf1374a3
Lab Assistant	Enables you to view an existing lab, perform actions on the lab VMs and send invitations to the lab.	ce40b423-cede-4313-a93f-9b28290b72
Lab Contributor	Applied at lab level, enables you to manage the lab. Applied at a resource group, enables you to create and manage labs.	5daaa2af-1fe8-407c-9122-bba1797982
Lab Creator	Lets you create new labs under your Azure Lab Accounts.	b97fb8bc-a8b2-4522-a38b-dd33c7e65e
Lab Operator	Gives you limited ability to manage existing labs.	a36e6959-b6be-4b12-8e9f-ef4b474d30

Built-in role	Description	ID
Lab Services Contributor	Enables you to fully control all Lab Services scenarios in the resource group.	f69b8690-cc87-41d6-b77a-a4bc3c0a96
Lab Services Reader	Enables you to view, but not change, all lab plans and lab resources.	2a5c394f-5eb7-4d4f-9c8e-e8eae39fa6
Monitor		
Application Insights Component Contributor	Can manage Application Insights components	ae349356-3a1b-4a5e-921d-050484c634
Application Insights Snapshot Debugger	Gives user permission to view and download debug snapshots collected with the Application Insights Snapshot Debugger. Note that these permissions are not included in the Owner or Contributor roles. When giving users the Application Insights Snapshot Debugger role, you must grant the role directly to the user. The role is not recognized when it is added to a custom role.	08954f03-6346-4c2e-81c0-ec3a5cfae2
Monitoring Contributor	Can read all monitoring data and edit monitoring settings. See also Get started with roles, permissions, and security with Azure Monitor.	749f88d5-cbae-40b8-bcfc-e573ddc772
Monitoring Metrics Publisher	Enables publishing metrics against Azure resources	3913510d-42f4-4e42-8a64-420c390055
Monitoring Reader	Can read all monitoring data (metrics, logs, etc.). See also Get started with roles, permissions, and security with Azure Monitor.	43d0d8ad-25c7-4714-9337-8ba259a9fe
Workbook Contributor	Can save shared workbooks.	e8ddcd69-c73f-4f9f-9844-4100522f16
Workbook Reader	Can read workbooks.	b279062a-9be3-42a0-92ae-8b3cf002ed
Management and governance		
Automation Contributor	Manage Azure Automation resources and other resources using Azure Automation.	f353d9bd-d4a6-484e-a77a-8050b599b8
Automation Job Operator	Create and Manage Jobs using Automation Runbooks.	4fe576fe-1146-4730-92eb-48519fa6b1
Automation Operator	Automation Operators are able to start, stop, suspend, and resume jobs	d3881f73-407a-4167-

Built-in role	Description	ID
		8283-e981cbba04
Automation Runbook Operator	Read Runbook properties - to be able to create Jobs of the runbook.	5fb5aef8-1081-4b8e-bb16-9d5d0385ba
Azure Arc Enabled Kubernetes Cluster User Role	List cluster user credentials action.	00493d72-78f6-4148-b6c5-d3ce8e4799
Azure Arc Kubernetes Admin	Lets you manage all resources under cluster/namespace, except update or delete resource quotas and namespaces.	dffb1e0c-446f-4dde-a09f-99eb5cc68b
Azure Arc Kubernetes Cluster Admin	Lets you manage all resources in the cluster.	8393591c-06b9-48a2-a542-1bd6b377f6
Azure Arc Kubernetes Viewer	Lets you view all resources in cluster/namespace, except secrets.	63f0a09d-1495-4db4-a681-037d84835e
Azure Arc Kubernetes Writer	Lets you update everything in cluster/namespace, except (cluster)roles and (cluster)role bindings.	5b999177-9696-4545-85c7-50de3797e5
Azure Connected Machine Onboarding	Can onboard Azure Connected Machines.	b64e21ea-ac4e-4cdf-9dc9-5b892992be
Azure Connected Machine Resource Administrator	Can read, write, delete and re-onboard Azure Connected Machines.	cd570a14-e51a-42ad-bac8-bafd673253
Billing Reader	Allows read access to billing data	fa23ad8b-c56e-40d8-ac0c-ce449e1d2c
Blueprint Contributor	Can manage blueprint definitions, but not assign them.	41077137-e803-4205-871c-5a86e6a753
Blueprint Operator	Can assign existing published blueprints, but cannot create new blueprints. Note that this only works if the assignment is done with a user-assigned managed identity.	437d2ced-4a38-4302-8479-ed2bcb43d0
Cost Management Contributor	Can view costs and manage cost configuration (e.g. budgets, exports)	434105ed-43f6-45c7-a02f-909b2ba834
Cost Management Reader	Can view cost data and configuration (e.g. budgets, exports)	72fafb9e-0641-4937-

Built-in role	Description	ID
		9268-a91bfd8191
Hierarchy Settings Administrator	Allows users to edit and delete Hierarchy Settings	350f8d15-c687-4448-8ae1-157740a393
Kubernetes Cluster - Azure Arc Onboarding	Role definition to authorize any user/service to create connectedClusters resource	34e09817-6cbe-4d01-b1a2-e0eac5743d
Kubernetes Extension Contributor	Can create, update, get, list and delete Kubernetes Extensions, and get extension async operations	85cb6faf-e071-4c9b-8136-154b5a04f7
Managed Application Contributor Role	Allows for creating managed application resources.	641177b8-a67a-45b9-a033-47bc880bb2
Managed Application Operator Role	Lets you read and perform actions on Managed Application resources	c7393b34-138c-406f-901b-d8cf2b17e6
Managed Applications Reader	Lets you read resources in a managed app and request JIT access.	b9331d33-8a36-4f8c-b097-4f54124fdb
Managed Services Registration assignment Delete Role	Managed Services Registration Assignment Delete Role allows the managing tenant users to delete the registration assignment assigned to their tenant.	91c1777a-f3dc-4fae-b103-61d183457e
Management Group Contributor	Management Group Contributor Role	5d58bcaf-24a5-4b20-bdb6-eed9f69fbe
Management Group Reader	Management Group Reader Role	ac63b705-f282-497d-ac71-919bf39d93
New Relic APM Account Contributor	Lets you manage New Relic Application Performance Management accounts and applications, but not access to them.	5d28c62d-5b37-4476-8438-e587778df2
Policy Insights Data Writer (Preview)	Allows read access to resource policies and write access to resource component policy events.	66bb4e9e-b016-4a94-8249-4c0511c2be
Quota Request Operator	Read and create quota requests, get quota request status, and create support tickets.	0e5f05e5-9ab9-446b-b98d-1e2157c941
Reservation Purchaser	Lets you purchase reservations	f7b75c60-3036-4b75-

Built-in role	Description	ID
		91c3- 6b41c27c16
Resource Policy Contributor	Users with rights to create/modify resource policy, create support ticket and read resources/hierarchy.	36243c78- bf99-498c- 9df9- 86d9f8d28(
Site Recovery Contributor	Lets you manage Site Recovery service except vault creation and role assignment	6670b86e- a3f7-4917- ac9b- 5d6ab1be4!
Site Recovery Operator	Lets you failover and failback but not perform other Site Recovery management operations	494ae006- db33-4328- bf46- 533a6560a
Site Recovery Reader	Lets you view Site Recovery status but not perform other management operations	dbaa88c4- 0c30-4179- 9fb3- 46319faa6
Support Request Contributor	Lets you create and manage Support requests	cfd33db0- 3dd1-45e3- aa9d- cdbdf3b6f2
Tag Contributor	Lets you manage tags on entities, without providing access to the entities themselves.	4a9ae827- 6dc8-4573- 8ac7- 8239d42aa(
Template Spec Contributor	Allows full access to Template Spec operations at the assigned scope.	1c9b6475- caf0-4164- b5a1- 2142a7116†
Template Spec Reader	Allows read access to Template Specs at the assigned scope.	392ae280- 861d-42bd- 9ea5- 08ee6d83b8
Virtual desktop infrastructure		
Desktop Virtualization Application Group Contributor	Contributor of the Desktop Virtualization Application Group.	86240b0e- 9422-4c43- 887b- b61143f32k
Desktop Virtualization Application Group Reader	Reader of the Desktop Virtualization Application Group.	aebf23d0- b568-4e86- b8f9- fe83a2c6al
Desktop Virtualization Contributor	Contributor of Desktop Virtualization.	082f0a83- 3be5-4ba1- 904c- 961cca79b3
Desktop Virtualization Host Pool Contributor	Contributor of the Desktop Virtualization Host Pool.	e307426c- f9b6-4e81- 87de- d99efb3c32

Built-in role	Description	ID
Desktop Virtualization Host Pool Reader	Reader of the Desktop Virtualization Host Pool.	ceadfde2-b300-400a-ab7b-6143895aa8
Desktop Virtualization Reader	Reader of Desktop Virtualization.	49a72310-ab8d-41df-bbb0-79b6492038
Desktop Virtualization Session Host Operator	Operator of the Desktop Virtualization Session Host.	2ad6aaab-ead9-4eaa-8ac5-da422f5624
Desktop Virtualization User	Allows user to use the applications in an application group.	1d18fff3-a72a-46b5-b4a9-0b38a3cd7e
Desktop Virtualization User Session Operator	Operator of the Desktop Virtualization User Session.	ea4bfff8-7fb4-485a-aadd-d4129a0ffa
Desktop Virtualization Workspace Contributor	Contributor of the Desktop Virtualization Workspace.	21efdde3-836f-432b-bf3d-3e8e734d4b
Desktop Virtualization Workspace Reader	Reader of the Desktop Virtualization Workspace.	0fa44ee9-7a7d-466b-9bb2-2bf446b120
Other		
Azure Digital Twins Data Owner	Full access role for Digital Twins data-plane	bcd981a7-7f74-457b-83e1-cceb9e632f
Azure Digital Twins Data Reader	Read-only role for Digital Twins data-plane properties	d57506d4-4c8d-48b1-8587-93c323f6a5
BizTalk Contributor	Lets you manage BizTalk services, but not access to them.	5e3c6656-6cfa-4708-81fe-0de47ac733
Grafana Admin	Perform all Grafana operations, including the ability to manage data sources, create dashboards, and manage role assignments within Grafana.	22926164-76b3-42b3-bc55-97df8dab3e
Grafana Editor	View and edit a Grafana instance, including its dashboards and alerts.	a79a5197-3a5c-4973-a920-486035ffd6
Grafana Viewer	View a Grafana instance, including its dashboards and alerts.	60921a7e-fef1-4a43-9b16-a26c52ad47