

Azure

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Tutorial Azure

Tutorial Microsoft Azure untuk Pemula

**Alex**

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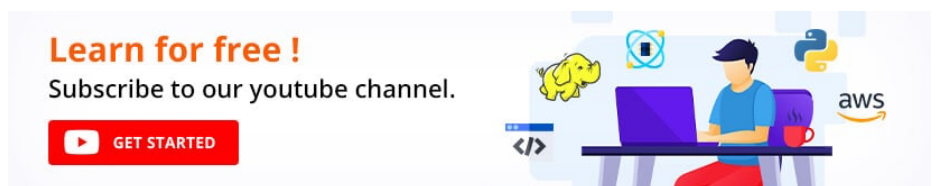
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Pendahuluan

Microsoft Azure adalah platform komputasi awan yang menyediakan berbagai layanan, termasuk mesin virtual, basis data, dan kemampuan AI. Platform ini memanfaatkan jaringan pusat data global untuk menghadirkan solusi yang skalabel dan andal. Azure mendukung berbagai bahasa pemrograman, kerangka kerja, dan sistem operasi, sehingga serbaguna untuk beragam kebutuhan teknis. Penawaran infrastruktur sebagai layanan (IaaS) dan platform sebagai layanan (PaaS) yang tangguh memungkinkan pengembang untuk membangun, menyebarkan, dan mengelola aplikasi dengan fleksibilitas dan efisiensi tinggi. Mari kita pelajari lebih lanjut dalam tutorial Azure ini!

Saksikan tutorial pelatihan Microsoft Azure ini :



Dalam tutorial Microsoft Azure ini, Anda akan mempelajari Azure dari dasar, sehingga Anda dapat memulai karier cloud Azure Anda dengan lebih baik. Azure adalah platform Cloud Computing terkemuka yang berasal dari Microsoft. Dalam tutorial Azure ini, Anda akan mempelajari tentang arsitektur cloud Azure, berbagai produk Azure, dan bagaimana perusahaan memanfaatkan kekuatan Azure dalam komputasi, [Azure Storage](#) , basis data, [Azure Virtual Network](#) , dan pengiriman konten. Dengan demikian, dari tutorial ini, Anda akan mendapatkan gambaran yang jelas tentang bagaimana Azure merevolusi domain cloud.

Apa itu Microsoft Azure?

[Azure](#) adalah platform cloud dari Microsoft yang menawarkan berbagai layanan dan sumber daya cloud untuk mengelola dan menyimpan data. Pengguna dapat mengakses layanan ini melalui portal Azure dengan koneksi internet aktif. Anda tidak perlu menyimpan data Anda di Azure untuk menggunakan layanannya, tetapi Anda dapat melakukannya jika Anda memilih demikian.

Saat ini, Microsoft Azure adalah layanan komputasi awan dengan pertumbuhan tercepat di pasar. Mari kita bandingkan Azure dengan pemimpin pasar, AWS, dalam [komputasi awan](#) , berdasarkan berbagai faktor:

Kriteria Perbandingan	Microsoft Azure	Amazon Web Services
Kemudahan penggunaan	Baik	Rata-rata
Strategi hibrida	Sangat baik	Rata-rata
Ragam produk	Terbatas	Luar Biasa
Kompatibilitas Windows	Sangat baik	Baik

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Mengapa Microsoft Azure begitu banyak digunakan?

Azure berkembang dengan sangat pesat dan berupaya mempersempit kesenjangan antara dirinya dan pemimpin pasar AWS di ranah komputasi awan. Ada beberapa fitur khas Azure yang membuatnya tumbuh begitu cepat di ranah komputasi awan. Dalam tutorial Azure ini, kami telah mencantumkan beberapa alasan utama mengapa Azure banyak digunakan meskipun merupakan pendatang baru di ranah komputasi awan:

- Azure menawarkan Platform as a Service (PaaS) yang sangat baik dengan alat dan komponen dasar yang unggul.
- Platform ini menawarkan kompatibilitas dengan bahasa pemrograman .NET, yang merupakan keuntungan besar.
- Fitur keamanan dan perlindungan data Azure tidak tertandingi di ranah komputasi awan.
- Azure menawarkan fitur cloud hybrid yang sangat baik dan migrasi yang mudah dari lingkungan on-premise ke cloud.
- Platform ini menyediakan lingkungan terintegrasi untuk pengembangan, pengujian, dan penyebaran aplikasi di cloud.
- Anda dapat mempelajari Azure tanpa kesulitan dan berhasil menyiapkan infrastruktur cloud Azure.
- Azure memiliki perjanjian perusahaan dengan pengguna Windows yang memudahkan mereka untuk bermigrasi ke Azure.

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Features of Microsoft Azure

Here, we list some of the top features of Azure that are forcing enterprises of all sizes to move to the Azure cloud infrastructure:

- [Azure Virtual Machines](#) come in new sizes and series, like the H100 and Hb v4 series, specifically designed for heavy-duty tasks such as machine learning and high-performance computing.
- Azure Container Instances support Windows containers, enabling developers to operate both Windows and Linux containers simultaneously.

- **Azure Kubernetes Service** supports [Kubernetes](#) 1.25 and has features like CSI drivers and RuntimeClass.
- [Azure Blob Storage](#) offers pricing choices, featuring a Hot tier tailored for frequently accessed data.
- [Azure Files](#) supports SMB over TCP, enabling users to access Azure Files shares from any location globally.
- [Azure Machine Learning](#) includes features promoting responsible AI, such as explainability and fairness.
- Azure Search can be used to embed search functionality into any custom application.
- [Azure ExpressRoute](#) offers a direct connection between Azure data center and your on-premise environment.
- Secure, dedicated access to Redis cache is possible with **Azure Redis Cache**.
- Azure Batch lets you effortlessly run and execute your applications like an assembly line.
- [Azure Data Factory](#) lets you seamlessly work on the on-premise or cloud infrastructure.
- [Azure Load Balancer](#) is a cloud-based system that accepts client requests, determines which machines in the set can handle them, and then forwards those requests to the appropriate machines.



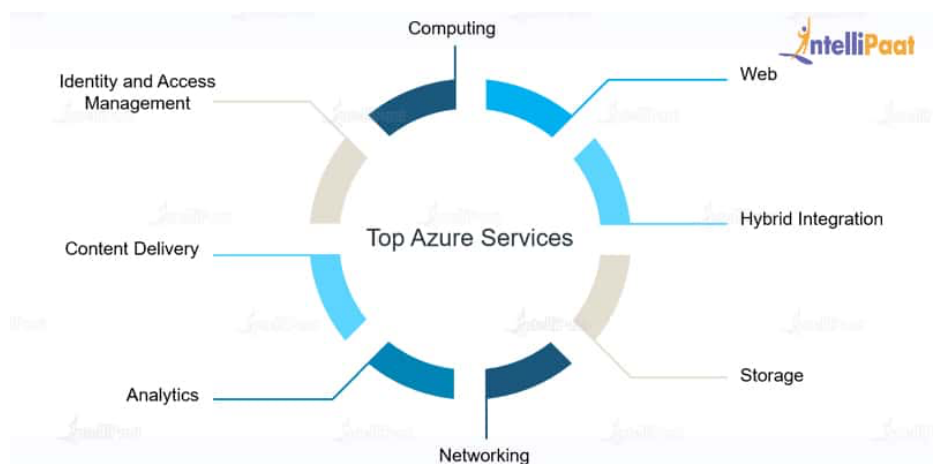
Interested to boost your skills in Azure?

Take a Quiz

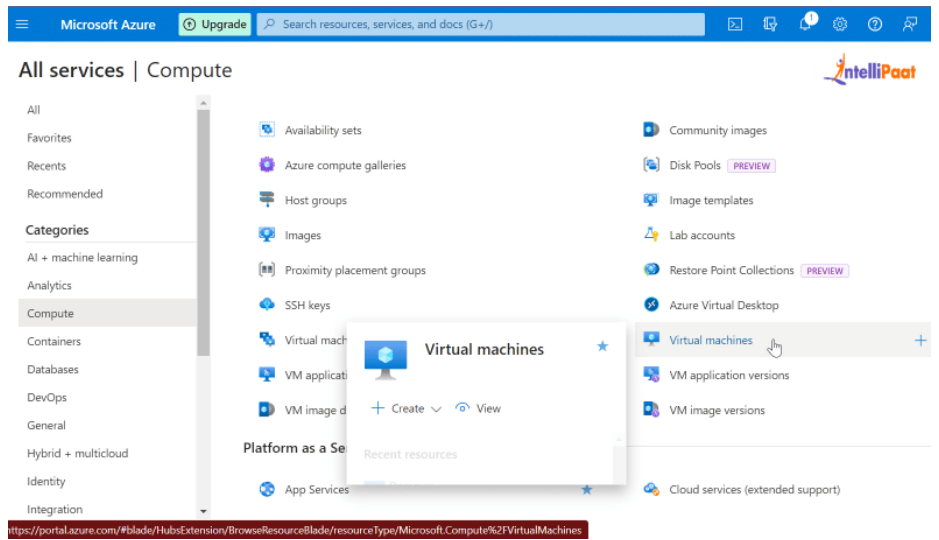
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Top Azure Services

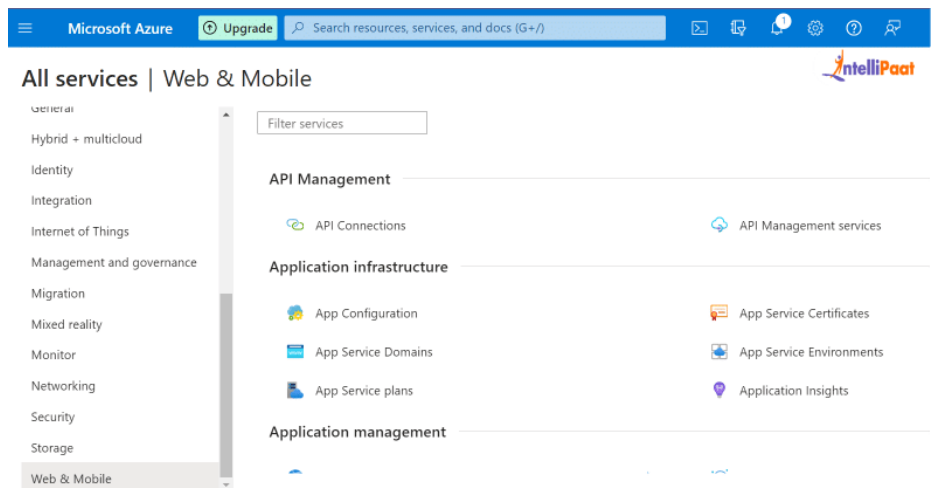
Here, we will list some of the top Azure services available:



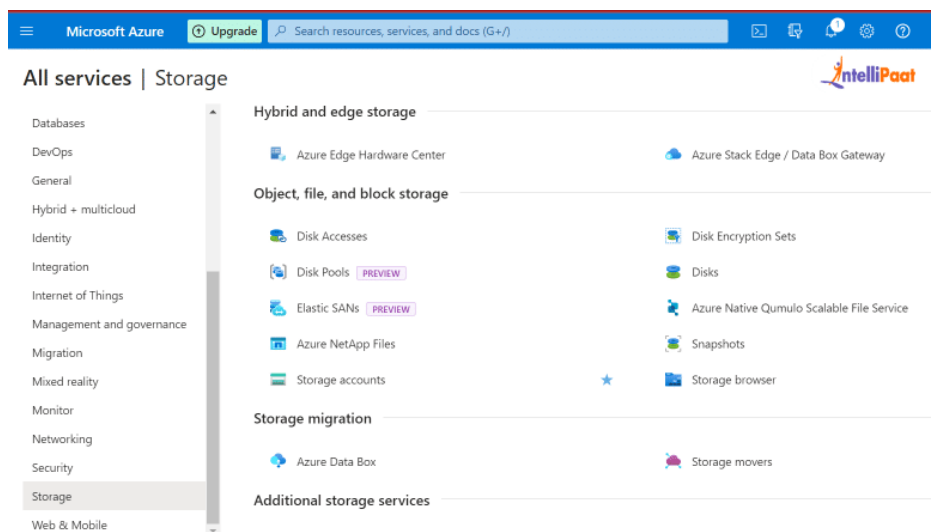
- **Computing:** The computing services offered by Azure are for managing virtual machines and supporting remote applications, containerization, and batch processing.



- **Web:** The web services offered by Azure include those used for the development and deployment of web applications, along with the services for search, API management, and content delivery, among others.



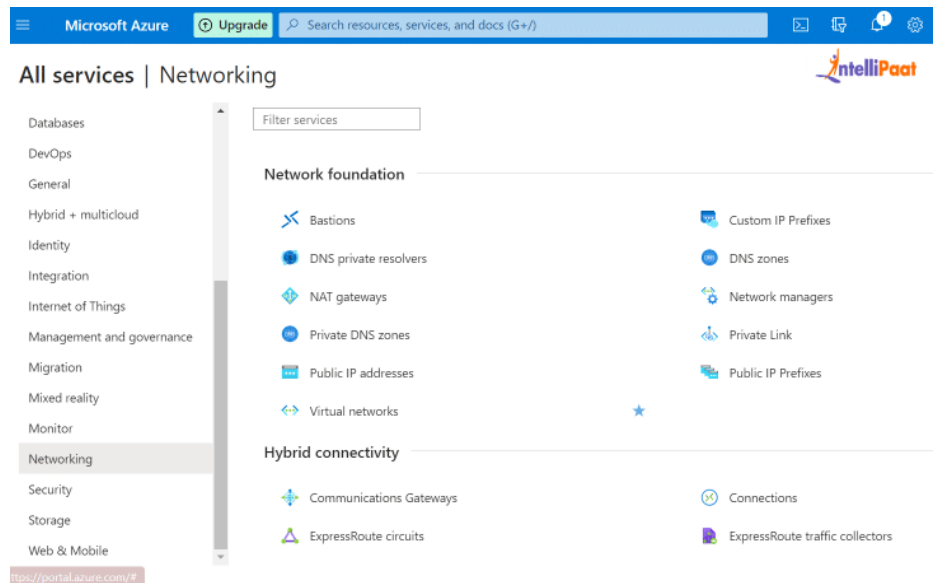
- **Storage:** Azure offers a whole range of services for scalable cloud storage for both structured and unstructured data. This support is available for the persistent and archival storage of big data.



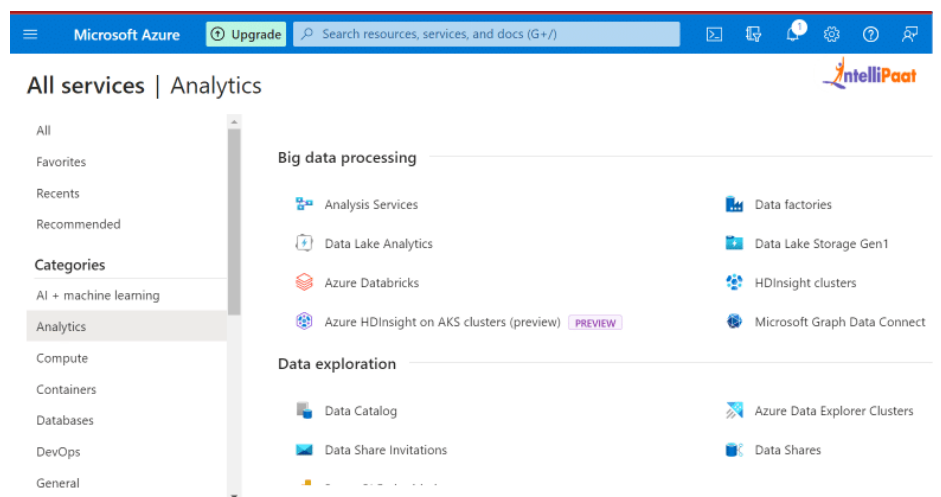
For instance, Azure Data Lake Storage Gen2. It is a dependable and protected service designed for storing and processing massive volumes of data. It supports multiple data formats, including JSON, CSV, and Parquet, making it versatile for various data analysis

needs.

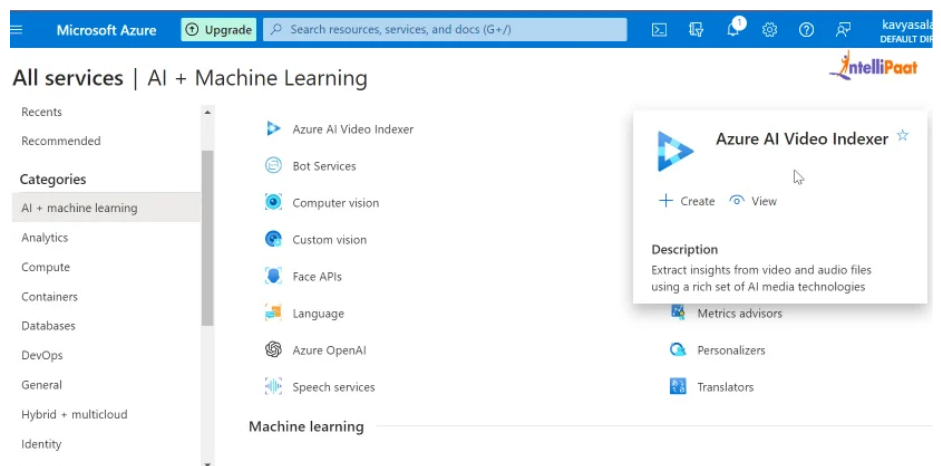
- **Networking:** [Azure virtual network](#) services are offered for establishing dedicated connections and gateways and also for load balancing, traffic management, DNS hosting, and network security.



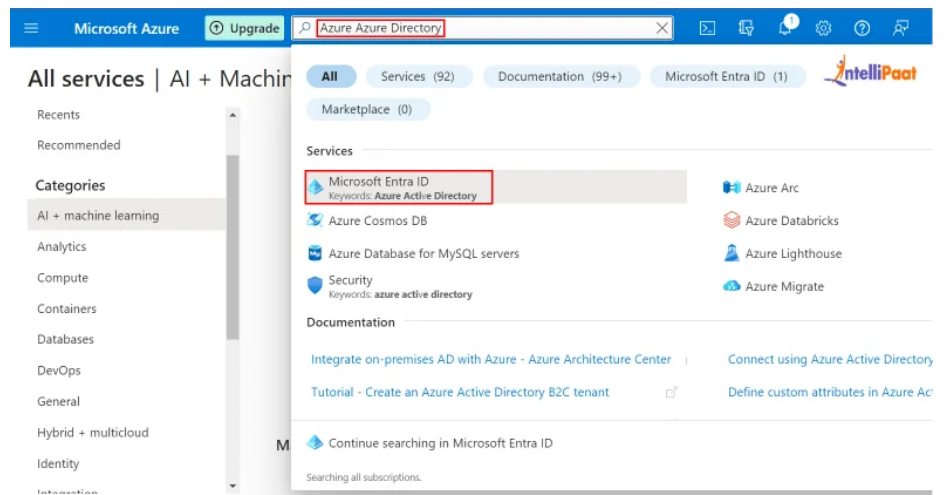
- **Analytics:** The range of analytical services offered by Azure includes Big Data Analytics, real-time analytics, Machine Learning, IoT, and data warehousing, among others.



- **Content Delivery:** Azure offers services for globally distributed networks for content caching, on-demand streaming services, media playback, encoding, and so on.



- **Identity and Access Management (IAM):** The Azure IAM services ensure authorized access to the Azure network, encryption, protection of sensitive information, [Azure Active Directory](#), and so on. It is also referred to as **Azure Entra ID**.



- **Hybrid Integration:** Azure offers services in on-premise infrastructure in connection with Azure data centers, server backup, and recovery.

Applications of Azure

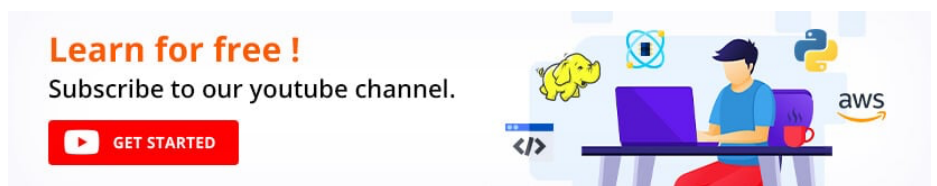
Since the move toward the cloud is unstoppable, in this section of the Azure tutorial, we will see the various applications of Azure.

- **Development:** Azure helps in successful software development by assisting with code sharing, testing applications, troubleshooting, software development kits, and so on.
- **DevOps:** Azure DevOps offers a complete set of tools and services for DevOps implementation that includes application diagnostics, test labs for build testing, experimentation, Visual Studio Team Services, and so on.
- **Machine Learning:** Machine Learning applications offered by Azure include those used for creating powerful AI and cognitive computing models, datasets for training the models, and so on.
- **Containerization:** Containerization services include the Azure platform for Docker and Kubernetes implementation for creating and orchestrating huge volumes of containers.
- **Internet of Things:** Azure offers multiple services for capturing, monitoring, and analyzing the IoT data that emanates from sensors and other devices, and then for analyzing and monitoring issue notifications and support for the successful IoT implementation.
- **IT Security:** This includes identifying and responding to IT security in the cloud and managing sensitive assets and encryption keys.

Why should you learn Azure?

Azure is growing rapidly and is the fastest-growing cloud platform in the world. Since it is a new offering from Microsoft, we can expect the company to grow at an accelerated pace well into the future. All this means, that there will be a huge number of job opportunities for professionals who are trained and certified in Microsoft Azure. This means, that if you go through this Azure tutorial and master it, then you will have a basic understanding of this powerful cloud platform which will naturally help you fast-track your [career in the cloud domain](#).

Watch this insightful video on Microsoft Azure Tutorial:



This Microsoft Azure tutorial further covers the introduction to Microsoft Azure, the definition of Cloud Computing, the advantages and disadvantages of Cloud Computing, constructing Azure Virtual Machines, hosting web applications on the Azure platform, storing SQL and tabular data in Azure, storage blobs, designing a communication strategy by using queues and the service bus, and Azure Resource Manager.

Recommended Audience

Anybody who wants to make a career in the cloud domain can go through this Azure tutorial and learn Azure in an easy yet effective manner. IT and Software Developers, System Administrators, Project Managers, and others can benefit from this Azure tutorial.

Prerequisites

There are no prerequisites for this Azure tutorial. If you want to learn Azure, then all you need to have is a basic understanding of the cloud concepts and you are good to go.

Frequently Asked Questions

What is Microsoft Azure used for?

Azure is a public cloud computing platform with solutions including Infrastructure as a Service (IaaS), Software as a Service (SaaS), and Platform as a Service (PaaS). These solutions can be leveraged by organizations of all scales for analytics, virtual computing, storage, networking, etc.

How do I start learning Azure?

This tutorial is a comprehensive guide for all learners who want to learn Azure from scratch. We also have an Azure video tutorial on YouTube that can help you build on the Azure skills that you acquire in this tutorial. Moreover, if you want to learn Azure from experts, you can enroll in our [Azure Training](#)!

What is Azure and how can we access it?

Microsoft Azure is Microsoft's public cloud computing platform that provides a range of cloud services, including those for compute, analytics, storage, and networking. Azure can be used via an Internet service connection. Azure Storage works by enabling users to access and download data on any chosen device and further these users can also edit documents simultaneously with other users as well.

What are the benefits of Azure?

Azure services are mostly business-centric. The benefits of Azure, to mention a few, are: Application Management with apt IaaS services Flexibility and Agility Compliance, Security, and Disaster Recovery Faster content delivery, optimal user experience, and sharing data across virtual machines Analytics Support and Unified delivery plan Can be deployed anywhere Regular updates

Is Microsoft Azure easy to learn?

Given the fact that Microsoft is dominant in the PC OS market, learning Azure is relevantly easy when compared with other cloud providers. This is because Windows has become a household name. You can enroll with us for our Azure Training and our experienced trained will make learning Azure a joyride for you. You can also take up a [free Azure training](#) and learn more about the technology that has made major improvements in the cloud area.

How long does it take to learn Azure?

The answer to this question is subjective as the time frame to learn Azure depends on the learner's understanding of cloud, server provisioning, and networking. If the learner is familiar with these concepts, he/she can learn to work around Azure in days. However, if someone is beginning from scratch, learning Azure can take up to 8 weeks (again depending on the learner's speed and grasping ability).

Is the coding required for Azure?

Coding in Azure comes into the picture only when it comes to [Azure Developer](#) roles. There is no specific language as such in which Azure coding is to be done.

Which is cheaper Azure or AWS?

Owing to differences in configuration and measuring of computing units, and services offered, identifying the cheaper cloud provider among Azure and AWS is difficult. Although AWS looks cheaper, Azure offers substantial discounts when it comes to upfront and long-term payments.

About the Author

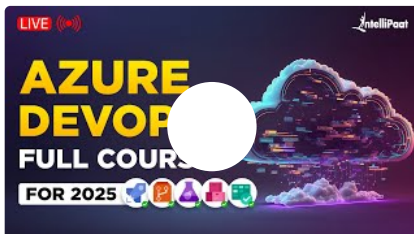


Rupinder

Senior Cloud Computing Associate, Xebia

Rupinder is a distinguished Cloud Computing & DevOps associate with architect-level AWS, Azure, and GCP certifications. He has extensive experience in Cloud Architecture, Deployment and optimization, Cloud Security, and more. He advocates for knowledge sharing and in his free time trains and mentors working professionals who are interested in the Cloud & DevOps domain.

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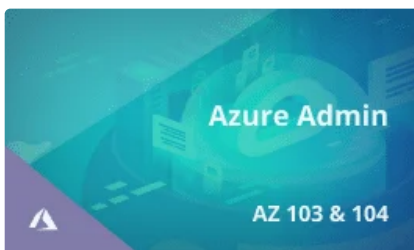


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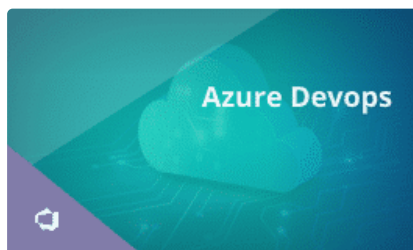


[Azure Databricks Interview Questions](#)

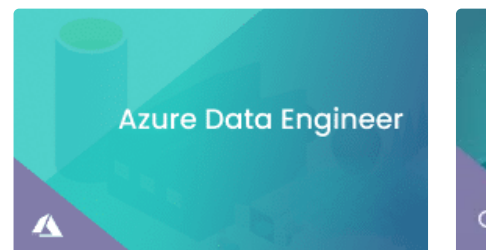
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