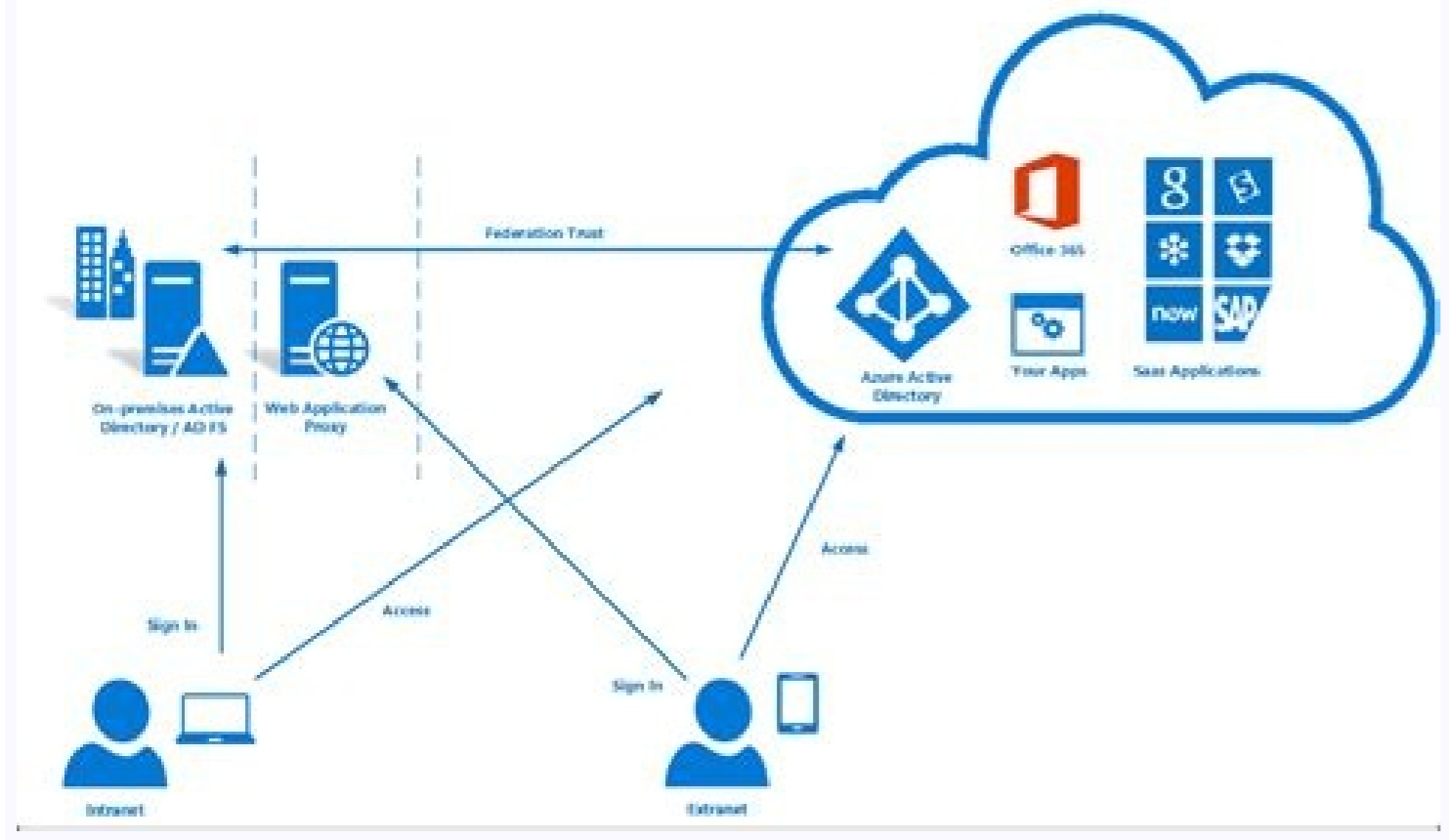
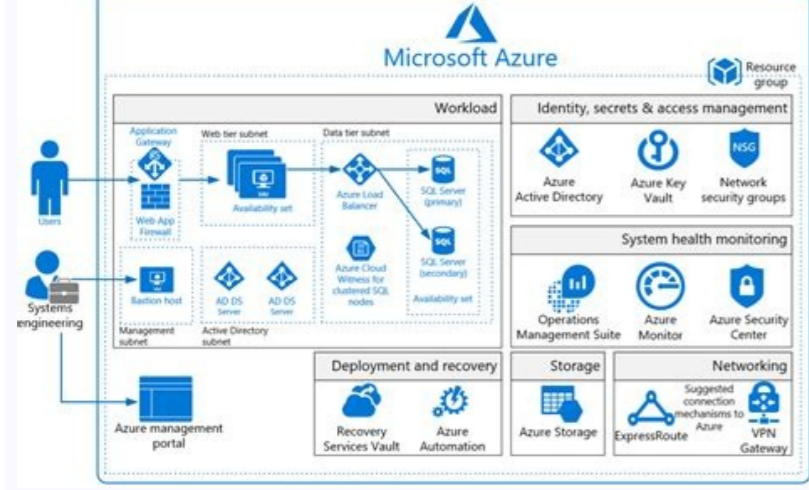
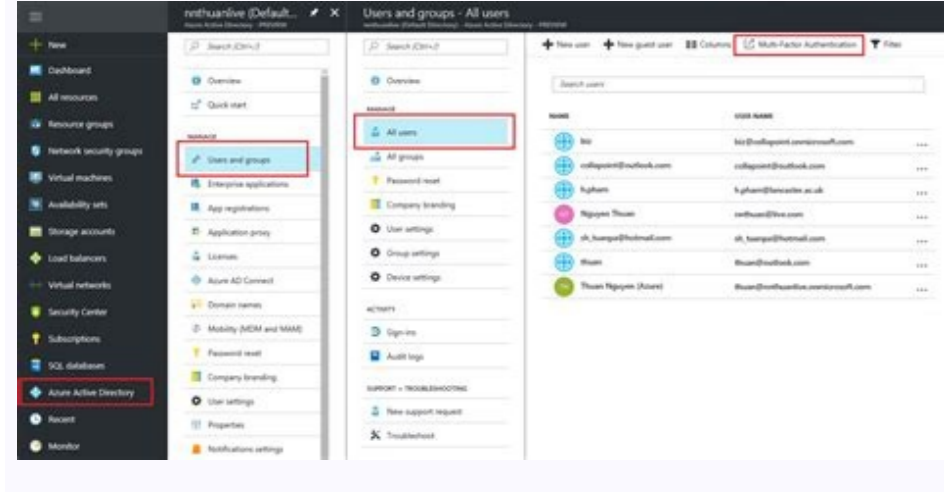
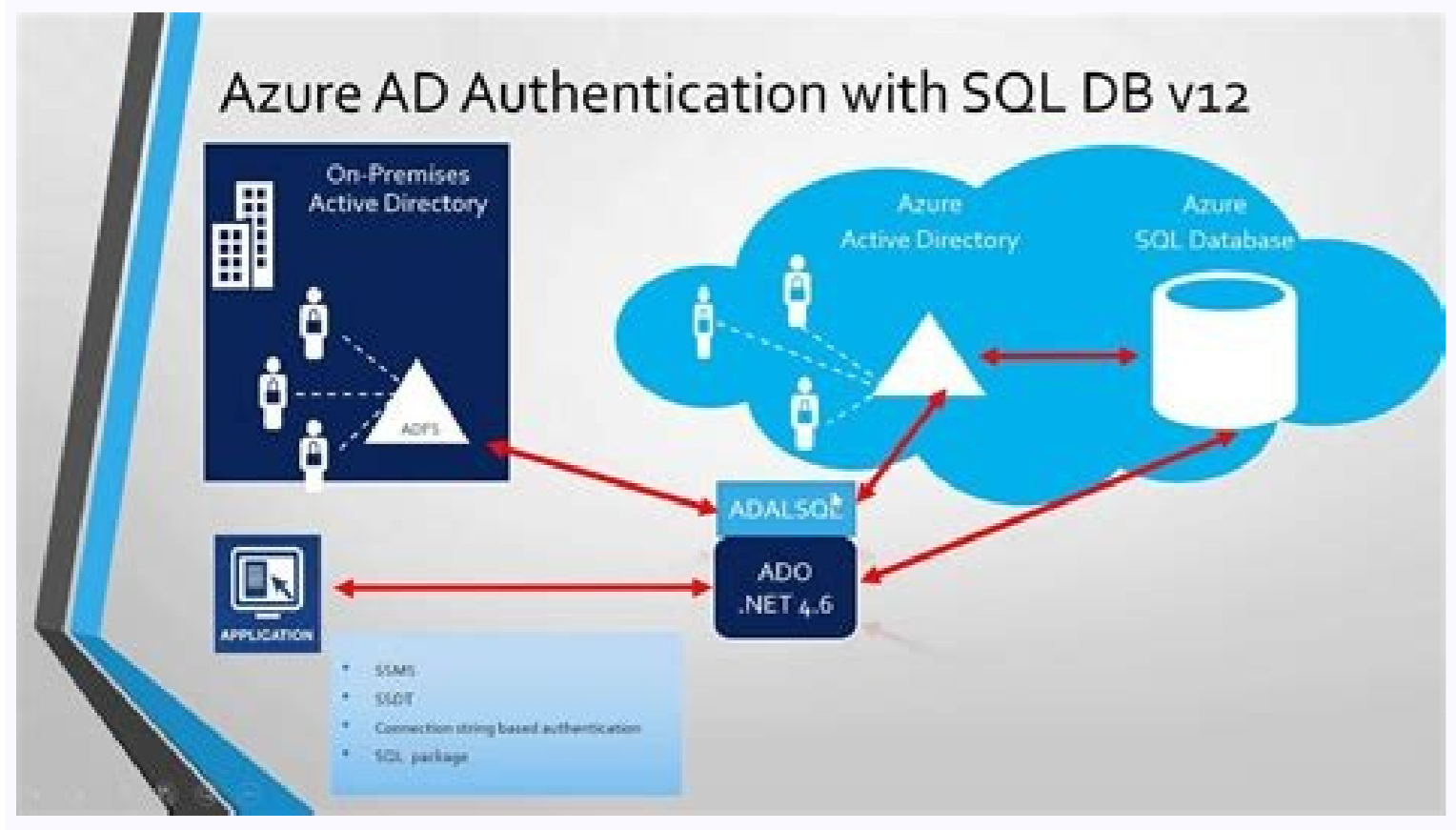


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All employees in an organization need access to some Azure services to perform their tasks. They can access services like SQL database, machine learning, or Azure container services when the administrator assigns them separate user id and password for each service. Employees, as well as administrators, often find it hard to manage multiple user logins at the same time. It creates more of a hassle for administrators working in an organization that involves more than 1000 employees. This is where Azure Active Directory (AD) comes into the picture. With Azure AD, the administrators can handle multiple user logins without any issue. Administrators need to assign a single username and password to access all the services they want. What is the Azure Active Directory? Azure Active Directory is Microsoft's multi-tenant, cloud-based directory and identity management service. For an organization, Azure AD helps employees sign up to multiple services and access them anywhere over the cloud with a single set of login credentials. Windows AD vs. Azure AD Windows Active Directory (AD) was the previous version of Azure AD. Active Directory (AD) is an OS directory service that facilitates working with interconnected, complex, and different network resources in a unified manner. The biggest drawback of Windows AD was that it had many layers that performed various bits of work. These layers are described below: ADDS - Windows Active Directory Domain Services. ADDS allows the admin to manage information relating to user logins and other details. ADLS - Azure Data Lake Storage Services. This layer allows you to store data of any type or size. ADFS - Active Directory Federation Services. This layer allows you to have a single option for signing up to get access to all systems and applications. AD CS - Active Directory and Certification Services. This layer enables administrators to manage and issue public certificates. AD RMS - Active Directory Rights Management Services. AD RMS is a security tool for data protection. Administrators need to take care of a large number of layers in the case of Windows AD. Here's where Azure AD changed the whole game. It integrates all these five layers into two, and these are: This layer combines all the problems related to identity management. This layer enables the federation or the division of all these services of an organization. Here division means assigning each of these services to the users. Hence, Azure AD simplifies a lot of problems by using only two layers. For example, Office 365 uses Azure AD to manage user identities. To make use of any of the Office 365 services like Excel, PowerPoint, or Microsoft Word, the administrator would only need to provide a single username and password. Learn the features of Azure Active Directory (Azure AD) and methods of integrating it by taking up the Microsoft Azure Fundamentals Course. Enroll now! Service Audience There are three types of audiences in Azure active directory: IT administrators Application developers Online customers IT administrators take care of all the sign-in procedures. They also solve issues related to authentication. Application Developers Application developers use these services to build applications. Development becomes quick since there are many resources available. Online Customers They make use of services like Office 365, CRM services, and have all their demands catered immediately. Conclusion The world of cloud computing is expanding with every passing day, many companies across the globe are shifting to the cloud by leveraging the services that cloud platforms offer. Microsoft Azure is the second-largest cloud service provider, and gaining expertise in it will surely take you ahead in the field of cloud computing. After learning about the Azure active directory, you can learn more about the basics of Azure by opting for Simplilearn's Microsoft Azure Fundamentals Training. The course can help you create Azure web apps, create and configure VMs in Microsoft Azure, and much more. Azure Active Directory, Oracle Autonomous Database, and ODP.NET Oracle Data Provider for .NET (ODP.NET) now supports Azure Active Directory authentication for Oracle Autonomous Database and on-premises databases, starting with server version 19.16. This feature is free to use and available with ODP.NET Core, managed ODP.NET, and unmanaged ODP.NET, starting with version 19.15.1. ODP.NET and Oracle database apps can now support single sign-on across a range of Azure and Microsoft 365-based cloud services using Azure Active Directory. As more apps integrate across on-premises and multicloud systems, managing identities becomes increasingly challenging for both administrators and users alike with federated identity solutions. Administrators may have to maintain a different set of credentials for EACH user to access EACH resource. The end user has to manage their own unique credentials as well for each resource. And the more user credential proliferation, the harder to ensure secure practices are applied completely and accurately. To solve this challenge, centralized identity stores, such as Azure Active Directory, are employed to manage user identity and resource access. End users then can maintain one set of credentials with single sign-on to all their apps. Administrators can more easily oversee user access across apps in the cloud and on-premises through unified identity management. With those benefits in mind, Oracle enabled its on-premises database to use OAuth 2.0 access tokens from Azure Active Directory. Those tokens can be consumed by all types of apps, including .NET, Java, and Instant Client ones. ODP.NET uses the access token to authenticate with the database instead of an username and password. Azure Active Directory application roles centralize user schema mapping and database authorization. Oracle database schemas are mapped to Azure Active Directory users or app roles. The app roles can be assigned to Azure Active Directory users or groups. Database users with the same app role assignments are granted the same access rights, which simplifies managing multiple users with identical privileges. You can read more about using Azure Active Directory access tokens with ODP.NET in the documentation. The link includes an ODP.NET code sample that demonstrates how to use Azure Active Directory access tokens. This new Azure Active Directory integration is another example of how Oracle databases and ODP.NET enhance developer and administrator capabilities in the multicloud. Hop into our public Slack if you want to discuss! Or, try our Free Tier to get your feet wet. In this Azure AD tutorial, we will discuss Azure active directory features. We will check what are the advantages of using Azure active directory as well as Azure active directory premium P1 and P2 license features along with the below topics. What is Azure Active Directory? What is Azure Active Directory Premium? Why Azure Active Directory Premium? Azure AD Premium Features Advantages of Azure active directory Azure Active Directory Free Features Azure Active Directory Office 365 Apps Features Azure Active Directory pricing Azure Active Directory Premium P1 Features: (\$6 user/month) Azure Active Directory Premium P2 Features: (\$9 user/month) What is available in Premium P2 and not in Premium P1? Azure AD Premium Key Features What is the Key Difference Between Azure AD Premium P1 vs P2? Azure AD Premium P1 vs. P2 pricing comparison Which feature is provided only with Microsoft Azure active directory premium p2? Azure Active Directory Authentication Azure Active Directory For Education You may also like: Azure Active directory comes with four different type of licenses: Free Office 365 apps Azure active directory premium P1 Azure active directory premium P2 What is Azure Active Directory? In simple words, Azure Active Directory is the cloud versions of Active Directory. It also is popularly known as Azure AD, which is the single and universal cloud-based identity and access management platform. Every organization will have an Azure AD or AD which helps employees to sign in and access various resources within the organization. Check out some more information on Azure Active Directory now. What is Azure Active Directory Premium? Azure Active Directory Premium is an excellent service that helps you with the access management and identity check capability in the Cloud environment. Why Azure Active Directory Premium? Azure Active Directory Premium features provide the benefits of multi-factor authentication (MFA), single sign-on to thousands of cloud (SaaS) apps, easy access to web apps you run on-premises, advanced alert and reporting features. Azure AD Premium Features The free edition is included with an online service license, for example, if you have Azure, Dynamics 365 or office 365 then you can access free Azure active directory free features. If you will categorize based on the features then Azure active directory will be of two categories: Azure active directory free: Here you can manage user accounts, groups, single sign-on access, on-premises active directory synchronization with Azure active directory. apart from that, you can access various popular software as a service application like Office 365, Salesforce, Google Apps, Dropbox, etc. All the applications support single sign-on. Azure active directory premium: with active directory premium license you can get all the active directory free features and also you will get various enterprise label identity management capabilities or features. If you are new to the Azure active directory then check out an article on what is your active directory. Advantages of Azure active directory 1- single sign-on: Which is the single sign-on feature you are able to access a number of apps from anywhere. The apps include Office 365, Azure, Salesforce, Dropbox, etc. Active Directory provides simply single sign-on services to more than 2800 software as a service application. With Azure active directory free license single sign-on will be assigned to 10 apps per user. But if you have Azure active directory premium license then it can be assigned to unlimited apps per user. 2- High availability: Microsoft Azure active directory data centers spread across 50 locations all over the world. Microsoft provides 99.99% SLA for all the paid versions for Azure Active Directory. 3- Application proxy: By using Microsoft Azure active directory application proxy feature organizations can publish on-premises applications for secure remote access. you really do not need to use any VPN, all your users can access applications over the internet like we are accessing Office 365. 4- Self-service password reset: Azure AD provides an option by using which users can reset their password by themselves without contacting any support team. This feature is known as a self-service password reset. they can unlock their account as well as can change their password by themselves. The Azure active directory also provides a self-service group management feature, by using which users can create and manage groups by themselves who are the owner of the group. Annually organizations can save a lot of money by using the self-service password reset options. 5- Multi-Factor Authentication: Security is very important in any organization. Azure active directory profiles multi-factor authentication which is also known as two-step verification. This provides an additional level of security for the users to sign in. So if any user's password is compromised still their account is secure, other people cannot access even if they have the password. Here users have to provide multiple factors to authenticate themselves. 6- Privileged identity management: Microsoft provides privileged identity management features in Azure active directory which is used to secure very critical business assets. this will provide just-in-time administrative access. 7- Azure active directory B2B: Microsoft Azure active directory B2B feature allows organizations to add their partners to their projects or groups so that they can share information internally without worrying about the vendor's identity. partners also can access information from their existing identity. 8- Azure active directory B2C: by using the Azure active directory B2C feature, organization scans allow their customers for their business applications. as an organization, by using the Azure active directory B2C feature you can create a tenant where your customers can log in with their social as well as their corporate email accounts. 9- Developer tools access: Azure Active directory allowed the users to integrate and access a number of apps and services like your Google apps, workday, Office 365, myday, Salesforce, box, etc. Azure Active Directory Free Features Below are the features available in Azure active directory free. Directory objects (500,000 limits) Single sign-on up to 10 apps Easy provisioning ADFS authentication User and group management Device registration Cloud authentication Azure AD connect sync Self-service password change for cloud users Password protection Multi-Factor authentication Basic security and usage reports etc. Azure Active Directory Office 365 Apps Features Azure active directory Office 365 apps license will have all the free features of active directory, with below additional features will be available: Company branding (custom login log out page) Self-service password reset for cloud users Service level agreement Two-way synchronization between Azure active directory on-premises and Azure active directory cloud. Azure Active Directory pricing Let's discuss on Azure Active Directory pricing and premium P1 and P2 features. Azure Active Directory Premium P1 Features: (\$6 user/month) All the above features will be available in Azure active directory premium P1 license. apart from that below at the features which are available only in Azure active directory premium P1: Benefits of Azure AD Premium P1 Unlimited Directory objects/Unlimited Single sign-on Apps/Password protection/Password protection for Windows Server active directory/Self service password reset/change/unlock/Group access management/Cloud app Discovery/Azure AD-join/Advanced Security Analysis reports/Application proxy/Dynamic groups/Group creation permission delegation/Group naming policy/Usage guidelines/Group expiration/Azure information protection integration/SharePoint Limited access/Multi-factor authentication with conditional access etc. Azure Active Directory Premium P2 Features: (\$9 user/month) Active directory premium P2 license include every feature of Azure active directory. all the features will be available with below additional features. Benefits of Azure AD Premium P2 Unlimited Directory objects/Unlimited Single sign-on Apps/vulnerabilities and risky accounts detection/Risk-based conditional access policy/Privileged identity management/Access reviews/Entitlement management etc. Reference: What is available in Premium P2 and not in Premium P1? There are two excellent features that are available in the case of Premium P2. Those are Identity Protection and Identity Governance. It helps with Risky accounts detection, Risk-based Conditional Access policies and Risk events investigation, etc. You can consider it as a tool that actually helps with the following benefits: It helps to export the data to third party utilities so that it will be helpful for further investigation. Helps to investigate the risk factors with the automation process that helps identify identity-based risks quickly. The User risk policy Using the user risk policy, the Administrator can able to protect the users and group members. It also allows the Administrator to set the risk level i.e Low, Medium, or High. Based on the risk level Admin can set the conditions so that the Policy can execute based on the condition. The Sign-in risk policy Using the Sign-in risk policy, the Administrator can able to protect the sign-in users and group members. It also allows the Administrator to set the risk level i.e Low, Medium, or High. Based on the risk level Admin can set the conditions so that the Policy can execute based on the condition. 2. Identity Governance Identity Governance includes Access reviews, Privileged Identity Management and Entitlement Management, etc. Privileged Identity Management (PIM) Azure Active Directory Privileged Identity Management (PIM) is an excellent service that provides you with the option to manage, control, and monitor access to the important in your organization. Privileged Identity Management (PIM) also helps to limit admin access. The PIM works with 4 important steps. Those are as below Assign/Activate/Approve/Audit Azure AD Premium Key Features The key Azure AD premium features are as below 1- Enterprise SLA 99.99%: There is guarantee on 99.99% availability of the Azure Active Directory Premium service. 2- Forefront Identity Manager: The Azure Active Directory Premium features also help you to use the FIM server on your network. This actually helps you more when you have different on-premises directories and databases that if you want to sync directly to the Azure AD. One more good thing is you can use any number of FIM servers based on your requirement and there is no limit on this. 3- Multi-Factor Authentication Security is very important in any organization. Azure active directory Premium Features provides multi-factor authentication which is also known as two-step verification that helps you to secure access to Azure. This provides an additional level of security for the users to sign in. So if any user's password is compromised still their account is secure, other people cannot access it even if they have the password. Here users have to provide multiple factors to authenticate themselves. 4- The Self-service password reset feature Azure active directory premium feature provides you an option by using which users can reset their password by themselves without contacting any support team. This feature is known as a self-service password reset. they can unlock their account as well as can change their password by themselves. 5- Self-service group management feature The Azure Active Directory Premium Feature also helps you by providing an excellent feature known as the Self-service group management feature that helps you with the capability by enabling users to create groups, delegate group ownership, request access to other groups, etc. 6- Provides Advanced Alerts and Reports It also provides the advanced error log report and the advanced alert that helps to identify the issues quickly and that helps to provide the quick resolution. What is the Key Difference Between Azure AD Premium P1 vs P2? Well, let's discuss a few of the key differences between Azure AD Premium P1 vs P2. Azure AD Premium P1: Azure AD Premium P1 provides us with few excellent features like Identity management for different categories of users like on-premise users, remote users, and hybrid users, etc. which includes access management, self group management, self-service identity feature, etc. It also provides an excellent tool known as Microsoft Identity Manager that actually helps for identity and access management. Azure AD Premium P2: Compare to Azure AD Premium P1, Azure AD Premium P2 has all the features that Azure AD Premium P1 having. Along with those, Azure AD Premium P2 provides some additional features like Identity Protection that helps to save the critical data and applications and Privileged Identity Management (PIM) which helps to enhance the management of the Privileged accounts. Azure AD Premium P1 vs. P2 pricing comparison You can get the Azure AD Premium P1 features for the price of \$6 per month, whereas you need to pay \$9 per month for the Azure AD Premium P2 features. Azure Active Directory Premium Business Benefits Let's discuss here few key business benefits of Azure Active Premium as below One of the key business benefits is that Azure Active Directory Premium provides the ability to implement the single sign-on facility for any cloud or on-premises application that enhances security. Business always wants to secure their sensitive data and application. You can secure your sensitive data and applications for both on-premises and cloud using the Multi-Factor Authentication feature. Reduces lots of costs by providing the self-service capability for a Password reset. No need to depend on the support team to just change the password. Supports Windows devices, Mac OS X, Android, and iOS. Which feature is provided only with Microsoft Azure Active Directory Premium p2? Active Directory Premium p2 has all the features of P1 and along with that, you will get a few excellent additional features with Microsoft Azure Active Directory Premium p2 version, and those are as below Identity Protection: Here, you will get some excellent piece of functionalities like risky account detection, Vulnerabilities, and Different Risk-based conditional access policies, etc. Identity governance: You will get a few key features like Access reviews, Privileged Identity Management, etc as part of this feature. Azure Active Directory Authentication Azure Active Directory provides you one of the most secure authentication option. Provides you with the multi-factor authentication and single sign-on option. Helps you to protect your users from different cybersecurity attacks. Azure Active Directory Authentication provides you a lot of benefits. Let's discuss a few key benefits Single sign-on Access your apps securely from any where with the single sign-on feature of the Azure AD. Multi-factor authentication Use the multi-factor authentication to provide high protection for your application. Single identity platform It provides you with a single identity platform that helps you to connect your external and internal user more securely at one place. Azure Active Directory Authentication Methods There are different authentication methods provided by Azure Active Directory and those are as below Microsoft Authenticator app/Windows Hello for Business/FIDO2 security keys/Microsoft software tokens/OATH hardware tokens (preview)/Password/Voice Azure Active Directory For Education For your Educational institution, if you want Azure Active Directory for your entire school students, you can sign up for a free trial of Microsoft 365 Education. You can get a subscription at a cool academic price. You can get the Azure Active Directory along with the Microsoft 365 Education licensing. Basically, when you sign up for Microsoft 365 Education, An Azure Active Directory tenant will also get created along with that. Azure Active Directory can help both the students and Faculty to sign in securely and access the resources and services that they need. They can configure their domains and emails for cloud authentication in Azure Active Directory. For external collaboration, they can use Azure AD B2B Collaboration. They can also use Microsoft Teams, Modern Groups, contacts, etc. They can also use Intune for Education rely on Azure AD users, groups and policies, devices. You can also get the opportunity to use different authentication methods appropriate for your Educational institution like pass-through authentication, password hash synchronization, etc. You can also follow the below articles Wrapping Up Well. In this tutorial, we discussed: Various features of Microsoft Azure active directory Azure active directory premium features Various features of Azure active directory premium P1 Azure active directory premium P2 features Microsoft Azure active directory free license features What is Azure Active Directory? What is Azure Active Directory Premium? Why Azure Active Directory Premium? Azure AD Premium Features Advantages of Azure active directory Azure Active Directory Free Features Azure Active Directory Office 365 Apps Features Azure Active Directory pricing Azure Active Directory Premium P1 Features: (\$6 user/month) Azure Active Directory Premium P2 Features: (\$9 user/month) What is available in Premium P2 and not in Premium P1? Azure AD Premium Key Features What is the Key Difference Between Azure AD Premium P1 vs P2? pricing comparison, etc. Which feature is provided only with Microsoft Azure Active Directory Premium p2? Azure Active Directory Authentication Azure Active Directory For Education Hope you have enjoyed this article !!!

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