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Preparation Guide for Microsoft AZ-500 Microsoft Azure Security Technologies Certification

Posted by squastana

I just get my AZ-500 Microsoft Azure Security Technologies Certification (and a new badge : Microsoft Certified: Azure Security Engineer Associate) and it is time now to share my preparation notes for those who are interested to pass this exam and get certified too.

This article is just one another preparation guide to Microsoft exam AZ-500 but I hope it will be useful $\stackrel{\circ}{\cup}$





Even you don't plan to take the exam, all this content is really interesting to read and understand if you want to discover and improve your knowledge on security on Azure.

Before starting studying, you must know very well what this certification is about and what are the prerequisites.

The topics included in this exam are the following:

- Manage identity and access (20-25%)
- Implement platform protection (35-40%)
- Manage security operations (15-20%)
- Secure data and applications (30-35%)

More details:

https://www.microsoft.com/en-us/learning/exam-az-500.aspx

Manage identity and access (20-25%)

— Configure Microsoft Azure Active Directory for workloads —

How to: Use the portal to create an Azure AD application and service principal that can access resources https://docs.microsoft.com/en-us/azure/active-directory/develop/howto-create-service-principal-portal

Permissions and consent in the Azure Active Directory v2.0 endpoint https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-permissions-and-consent

Configure Multi-Factor Authentication settings

https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-mfasettings

Enterprise user management documentation – Azure Active Directory https://docs.microsoft.com/en-us/azure/active-directory/users-groups-roles/

Manage Microsoft Azure AD directory groups

Create a basic group and add members using Azure Active Directory

https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/active-directory-groups-create-azure-portal

What is guest user access in Azure Active Directory B2B?

https://docs.microsoft.com/en-us/azure/active-directory/b2b/what-is-b2b

— Configure Microsoft Azure AD Privileged Identity Management —

Configure Microsoft Azure AD identity protection

What is Azure Active Directory Identity Protection?

https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/overview

Vulnerabilities detected by Azure Active Directory Identity Protection

https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/vulnerabilities

Configure Microsoft Azure AD Privileged Identity Management

Monitor privileged access, configure Access Reviews, activate Privileged Identity Management

https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-getting-started https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-deployment-plan

— Configure Microsoft Azure tenant security —

Transfer Microsoft Azure subscriptions between Microsoft Azure AD tenants, manage API access to Microsoft Azure subscriptions and resources

Transfer ownership of an Azure subscription to another account https://docs.microsoft.com/en-us/azure/billing/billing-subscription-transfer

https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-aad https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-api-authentication https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-graph-api

Implement platform protection (35-40%)

— Implement network security —

What is Azure Virtual Network?

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-overview

Security Group

https://docs.microsoft.com/en-us/azure/virtual-network/security-overview

Configure Network Security Groups (NSGs)

https://docs.microsoft.com/en-us/azure/virtual-network/manage-network-security-group

Understanding Application Security Groups in the Azure Portal

https://www.petri.com/understanding-application-security-groups-in-the-azure-portal

Create and configure application security groups

https://azure.microsoft.com/en-gb/blog/applicationsecuritygroups/

Services Tags

https://docs.microsoft.com/en-us/azure/virtual-network/security-overview#service-tags

What is Azure Firewall?

https://docs.microsoft.com/en-us/azure/firewall/overview

Tutorial: Deploy and configure Azure Firewall using the Azure portal https://docs.microsoft.com/en-us/azure/firewall/tutorial-firewall-deploy-portal

Configure remote access management – Security management in Azure https://docs.microsoft.com/en-us/azure/security/azure-security-management

Configure baseline – Protect your network resources in Azure Security Center https://docs.microsoft.com/en-us/azure/security-center/security-center-network-recommendations

Configure Azure Storage firewalls and virtual networks https://docs.microsoft.com/en-us/azure/storage/common/storage-network-security

Azure SQL Database and SQL Data Warehouse IP firewall rules https://docs.microsoft.com/en-us/azure/sql-database/sql-database-firewall-configure

— Implement host security —

configure VM Security – Security best practices for laaS workloads in Azure https://docs.microsoft.com/en-us/azure/security/azure-security-iaas

Manage endpoint protection issues with Azure Security Center https://docs.microsoft.com/en-us/azure/security-center/security-center-install-endpoint-protection

Manage virtual machine access using just-in-time https://docs.microsoft.com/en-us/azure/security-center/security-center-just-in-time

Manage Windows updates by using Azure Automation https://docs.microsoft.com/en-us/azure/automation/automation-tutorial-update-management

Automate resources in your datacenter or cloud by using Hybrid Runbook Worker https://docs.microsoft.com/en-us/azure/automation/automation-hybrid-runbook-worker

Configure Baseline – Customize OS security configurations in Azure Security Center https://docs.microsoft.com/en-us/azure/security-center/security-center-customize-os-security-config

Configure container security —

Container Security in Azure

https://azure.microsoft.com/mediahandler/files/resourcefiles/container-security-in-microsoft-azure/Open%20Container%20Security%20in%20Microsoft%20Azure.pdf

Configure network – Enable containers to use Azure Virtual Network capabilities https://docs.microsoft.com/en-us/azure/virtual-network/container-networking-overview

Configure authentication – Service principals with Azure Kubernetes Service (AKS) https://docs.microsoft.com/en-us/azure/aks/kubernetes-service-principal

Secure traffic between pods using network policies in Azure Kubernetes Service (AKS) https://docs.microsoft.com/en-us/azure/aks/use-network-policies

Configure AKS security – Security concepts for applications and clusters in Azure Kubernetes Service (AKS) https://docs.microsoft.com/en-us/azure/aks/concepts-security

Configure container registry

https://docs.microsoft.com/en-us/azure/container-registry/

Best practices for Azure Container Registry

https://docs.microsoft.com/en-us/azure/container-registry/container-registry-best-practices

Configure container instance security

https://docs.microsoft.com/en-us/azure/container-instances/

Implement vulnerability management

https://www.aquasec.com/solutions/azure-container-security/

Implement Microsoft Azure Resource management security —

Create Microsoft Azure resource locks

https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-lock-resources

Manage resource group security with Azure RBAC

https://docs.microsoft.com/en-us/azure/role-based-access-control/overview

Built-in roles for Azure resources

https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles

Configure custom RBAC roles

https://docs.microsoft.com/en-us/azure/role-based-access-control/custom-roles

Configure Microsoft Azure policies

https://docs.microsoft.com/en-us/azure/governance/policy/tutorials/create-and-manage

Configure subscription and resource permissions

https://docs.microsoft.com/en-us/azure/role-based-access-control/role-assignments-portal

Manage security operation (15-20%)

— Configure Security Services —

Configure Microsoft Azure Monitor
Azure Monitor overview

https://docs.microsoft.com/en-us/azure/azure-monitor/overview

Configure Azure Log Analytics for data security

https://docs.microsoft.com/en-us/azure/azure-monitor/platform/data-security

Configure Azure diagnostic logs

https://docs.microsoft.com/en-us/azure/security/azure-log-audit#azure-diagnostics-logs

Configure Microsoft Azure Log Analytics

https://docs.microsoft.com/en-us/azure/azure-monitor/platform/manage-access

Configure diagnostic logging and log retention

https://docs.microsoft.com/en-us/azure/azure-monitor/platform/diagnostic-logs-overview

Configure vulnerability scanning

https://docs.microsoft.com/en-us/azure/security-center/security-center-vulnerability-assessment-recommendations

— Configure Security Policies —

Working with security policies

https://docs.microsoft.com/en-us/azure/security-center/tutorial-security-policy

Azure security policies monitored by Security Center

https://docs.microsoft.com/en-us/azure/security-center/security-center-policy-definitions

Configure centralized policy management by using Microsoft Azure Security Center https://docs.microsoft.com/en-us/azure/security-center/tutorial-security-policy

Configure Just in Time VM access by using Microsoft Azure Security Center https://docs.microsoft.com/en-us/azure/security-center/security-center-just-in-time

— Managed Security Alerts —

Create and customize alerts

Custom Alert Rules in Azure Security Center (Preview)

https://docs.microsoft.com/en-us/azure/security-center/security-center-custom-alert

Review and respond to alerts and recommendations

https://docs.microsoft.com/en-us/azure/security-center/security-center-managing-and-responding-alerts https://docs.microsoft.com/en-us/azure/security-center/security-center-recommendations

Configure a playbook for a security event by using Microsoft Azure Security Center https://docs.microsoft.com/en-us/azure/security-center/security-center-playbooks

Investigate escalated security incidents

https://docs.microsoft.com/en-us/azure/security-center/security-center-investigation

Secure Data and Applications (30-35%)

Configure security policies to manage data

Achieving Compliant Data Residency and Security with Azure

https://azure.microsoft.com/mediahandler/files/resourcefiles/achieving-compliant-data-residency-and-security-with-azure/Achieving_Compliant_Data_Residency_and_Security_with_Azure.pdf

Configure data sovereignty using Azure Policy

https://docs.microsoft.com/en-us/azure/governance/policy/samples/allowed-locations

Configure Data Retention

https://www.microsoft.com/en-us/trustcenter/privacy/data-management

Configure data retention (Storage Analytics)

https://docs.microsoft.com/en-us/rest/api/storageservices/setting-a-storage-analytics-data-retention-policy

Azure Data Explorer (Retention)

https://docs.microsoft.com/en-us/azure/kusto/management/retention-policy

https://docs.microsoft.com/en-us/azure/kusto/concepts/retentionpolicy

Configure data classification

https://docs.microsoft.com/en-us/azure/information-protection/infoprotect-settings-tutorial

Configure security for data infrastructure —

Enable database authentication

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-aad-authentication

Configure and manage Azure Active Directory authentication with SQL

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-aad-authentication-configure

Get started with SQL database auditing

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auditing

Azure SQL Database threat detection for single or pooled databases

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-threat-detection

Azure Storage security guide

https://docs.microsoft.com/en-us/azure/storage/common/storage-security-guide

Configure key management for storage accounts

https://docs.microsoft.com/en-us/azure/storage/common/storage-service-encryption-customer-managed-keys

Create and manage Shared Access Signatures (SAS)

https://docs.microsoft.com/en-us/azure/storage/common/storage-dotnet-shared-access-signature-part-1

An introduction to Apache Hadoop security with Enterprise Security Package

https://docs.microsoft.com/en-us/azure/hdinsight/domain-joined/apache-domain-joined-introduction

Configure security for HDInsights

https://docs.microsoft.com/en-us/azure/hdinsight/domain-joined/apache-domain-joined-configure-using-azure-adds

Security in Azure Cosmos DB - overview

https://docs.microsoft.com/en-us/azure/cosmos-db/database-security

Secure access to data in Azure Cosmos DB

https://docs.microsoft.com/en-us/azure/cosmos-db/secure-access-to-data

Data encryption in Azure Cosmos DB

https://docs.microsoft.com/en-us/azure/cosmos-db/database-encryption-at-rest

High availability with Azure Cosmos DB

https://docs.microsoft.com/en-us/azure/cosmos-db/high-availability

Online backup and on-demand data restore in Azure Cosmos DB

https://docs.microsoft.com/en-us/azure/cosmos-db/online-backup-and-restore

Configure security for Microsoft Azure Data Lake

https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-network-security https://docs.microsoft.com/en-us/azure/storage/common/storage-data-lake-storage-security-guide

— Configure encryption for data at rest —-

Implement Microsoft Azure SQL Database Always Encrypted

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-always-encrypted

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-always-encrypted-azure-key-vault

Implement database encryption

https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/transparent-data-encryption? view=sql-server-2017

Transparent data encryption for SQL Database and Data Warehouse

https://docs.microsoft.com/en-us/azure/sql-database/transparent-data-encryption-azure-sql?view=sql-server-2017

Azure SQL Transparent Data Encryption with customer-managed keys in Azure Key Vault: Bring Your Own Key support

https://docs.microsoft.com/en-us/azure/sql-database/transparent-data-encryption-byok-azure-sql?view=sql-server-2017

How to use Key Vault soft-delete with PowerShell

https://docs.microsoft.com/en-us/azure/key-vault/key-vault-soft-delete-powershell

Azure Storage Service Encryption for data at rest

https://docs.microsoft.com/en-us/azure/storage/common/storage-service-encryption

Storage Service Encryption using customer-managed keys in Azure Key Vault

https://docs.microsoft.com/en-us/azure/storage/common/storage-service-encryption-customer-managed-keys

Azure Disk Encryption for IaaS VMs

https://docs.microsoft.com/en-us/azure/security/azure-security-disk-encryption-overview

Implement backup encryption

https://docs.microsoft.com/en-us/azure/backup/backup-azure-backup-faq#encryption

Implement security for application delivery —

Securing PaaS deployments

https://docs.microsoft.com/en-us/azure/security/security-paas-deployments

Monitor availability and responsiveness of any web site

https://docs.microsoft.com/en-us/azure/azure-monitor/app/monitor-web-app-availability

— Configure application security —

App Service and Functions hosted apps can now update TLS versions!

https://blogs.msdn.microsoft.com/appserviceteam/2018/04/17/app-service-and-functions-hosted-apps-can-now-update-tls-versions/

Configure SSL/TLS certs

https://docs.microsoft.com/en-us/azure/app-service/app-service-web-tutorial-custom-ssl

Tutorial: Bind an existing custom SSL certificate to Azure App Service

https://docs.microsoft.com/fr-fr/azure/app-service/app-service-web-tutorial-custom-ssl#enforce-tls-1112

Configure Microsoft Azure services to protect web apps

https://docs.microsoft.com/en-us/azure/application-gateway/create-web-app

Create an application security baseline

https://docs.microsoft.com/en-us/azure/security/security-paas-deployments

Configure and manage Key Vault —

About keys, secrets, and certificates

https://docs.microsoft.com/en-us/azure/key-vault/about-keys-secrets-and-certificates

Secure access to a key vault

https://docs.microsoft.com/en-us/azure/key-vault/key-vault-secure-your-key-vault

Manage certificates, manage secrets, configure key rotation

https://docs.microsoft.com/en-us/azure/key-vault/key-vault-key-rotation-log-monitoring

Azure Storage account key management

https://docs.microsoft.com/en-us/azure/key-vault/about-keys-secrets-and-certificates#azure-storage-account-key-management

Azure Key Vault managed storage account - CLI

https://docs.microsoft.com/en-us/azure/key-vault/key-vault-ovw-storage-keys

Azure Storage Account Keys Automatic Rotation

http://www.wahidsaleemi.com/2017/08/azure-storage-account-keys-automatic-rotation/

Hope this preparation guide will be useful for you. Don't hesitate to post a comment or send me a message on Twitter @squastana or on LinkedIn

https://www.linkedin.com/in/stanislasquastana/

Last but not least, don't forget to spend time on http://microsoft.com/learn where you can find additional materials to prepare your certification.

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13 thoughts on "Preparation Guide for Microsoft AZ-500 Microsoft Azure Security Technologies Certification"



Noah James

26/04/2019 at 00:12

Man this is a very good job right here. You made my preparations easier with this. I've got the exam scheduled less than 48 and I'm sure this will help me brush up.



Ankit Sharma

23/05/2019 at 07:42

Hi James, How your exam went? I'm also preparing to appear for this exam if you could help with guiding me.

Below are my contact details, it would be really helpful if you can share your experience.

Email – ankit1767@gmail.com

WhatsApp Contact - +91-9643895235



LG

04/05/2019 at 14:07

Top les powerpoint, ca m'évite de tout lire 🙂



gaikwadhemantkumaremant

25/05/2019 at 07:52

Thanks For sharing such great information.

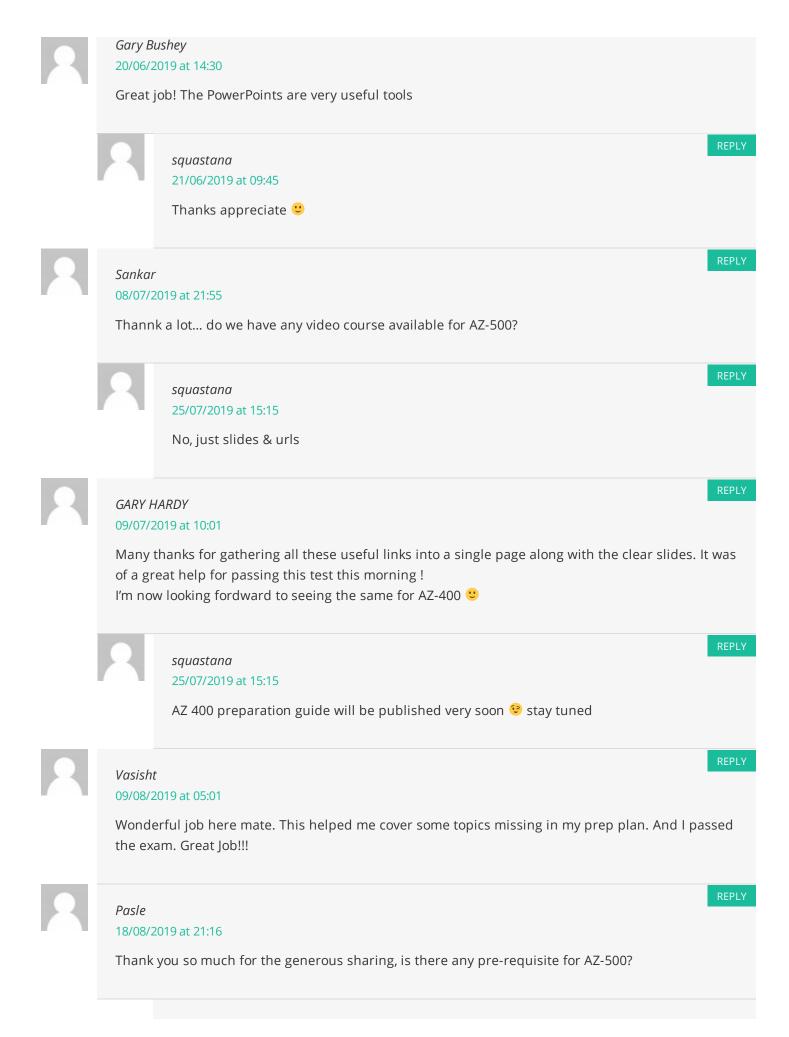
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No pre-requisite except a good preparation 😌

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