Save a recommendations report with Azure Advisor

Use Case:

In this walkthrough, you create and save a personalized recommendations report with Azure Advisor. You deploy a Virtual Machine (VM) and network resources, which Azure Advisor analyses, to get recommendations and generate the report.

Prerequisites:

An active Azure subscription is required. If you do not have an Azure subscription, create a free Azure account before you begin.

Steps:

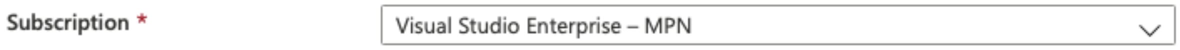
1. Select the **Deploy to Azure** button to go to the url https://portal.azure.com/#create/Microsoft.Template/uri/https%3A%2F%2Fraw.githubusercontent.com%2FAzure%2Fazure-quickstart-templates%2Fmaster%2F101-vm-simple-linux%2Fazuredeploy.json

To begin deploying a new VM to Azure from a template. Sign into the Azure Portal, when prompted. The **Visualize** button will bring you to the url http://armviz.io/#/?load=https%3A%2F%2Fraw.githubusercontent.com%2FAzure%2Fazure-quickstart-templates%2Fmaster%2F101-vm-simple-linux%2Fazuredeploy.json

And provide a visual representation of the deployment you will perform. This visualization is available with all template deployments to Azure and may be helpful when constructing templates and deployments to Azure to allow you view the architecture and relationships between resources.

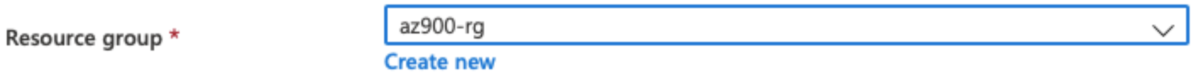
2. Enter the following details for the new VM.

- **Subscription**: Select your Azure subscription.



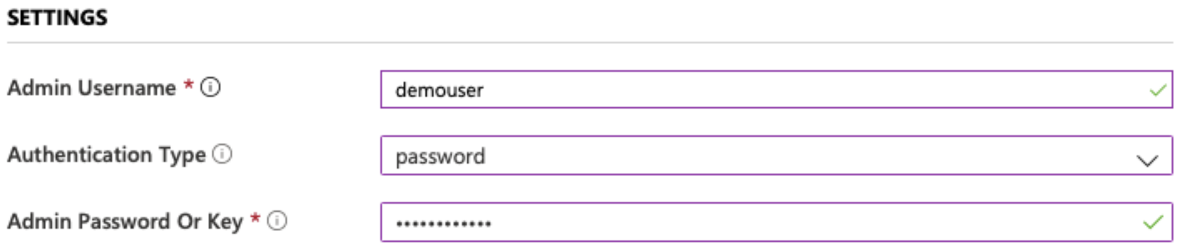
Subscription * : Visual Studio Enterprise – MPN

- **Resource group**: Choose **Create new**, and enter a name for the new resource group. Select the **ok** button.



Resource group * : az900-rg

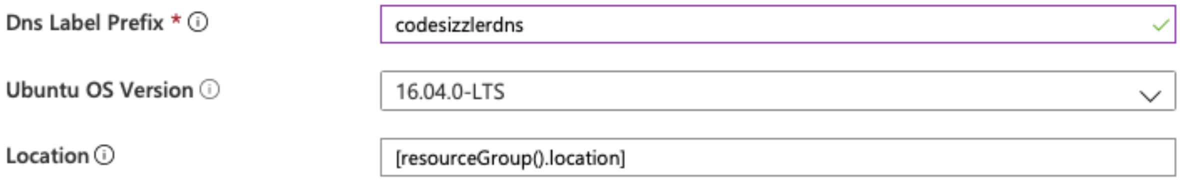
- **Location**: Choose the Azure location that is closest to you. For example, Australia SouthEast.
- **Admin Username**: demouser
- **Authentication Type**: Select password.
- **Admin Password or Key**: Enter a password for the VM administrator.



SETTINGS

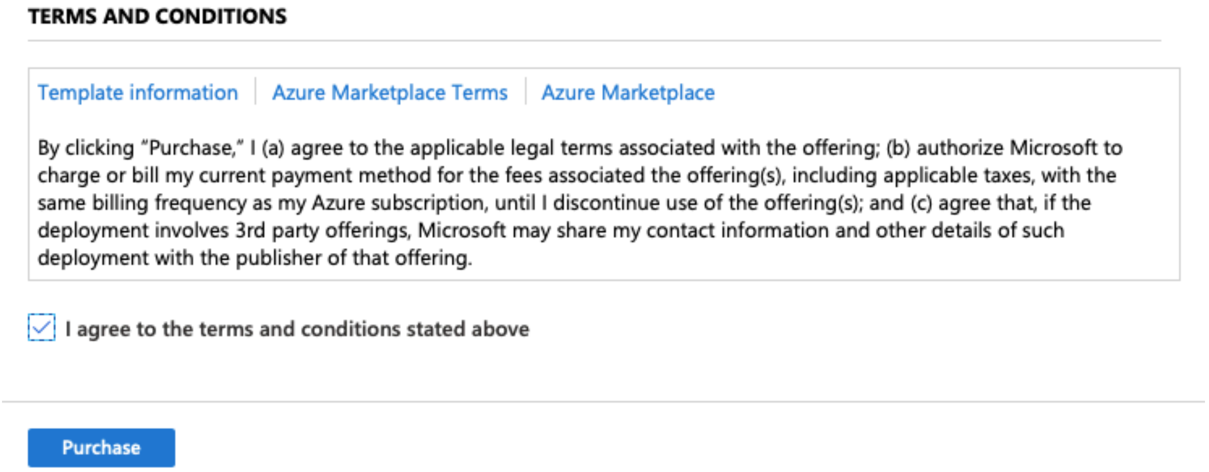
Admin Username * ⓘ	demouser ✓
Authentication Type ⓘ	password
Admin Password Or Key * ⓘ	•••••••••••• ✓

- **DNS Label Prefix**: Enter a DNS label prefix. For example, codesizzlerdns
- **Ubuntu OS Version**: Leave this at the default setting. For example, 16.04.0LTS
- **Location**: Leave this at the default setting [resourceGroup().location]



Dns Label Prefix * ⓘ	codesizzlerdns ✓
Ubuntu OS Version ⓘ	16.04.0-LTS
Location ⓘ	[resourceGroup().location]

- Check the box to agree to the terms and conditions.
- Select the **Purchase** button.



TERMS AND CONDITIONS

Template information | Azure Marketplace Terms | Azure Marketplace

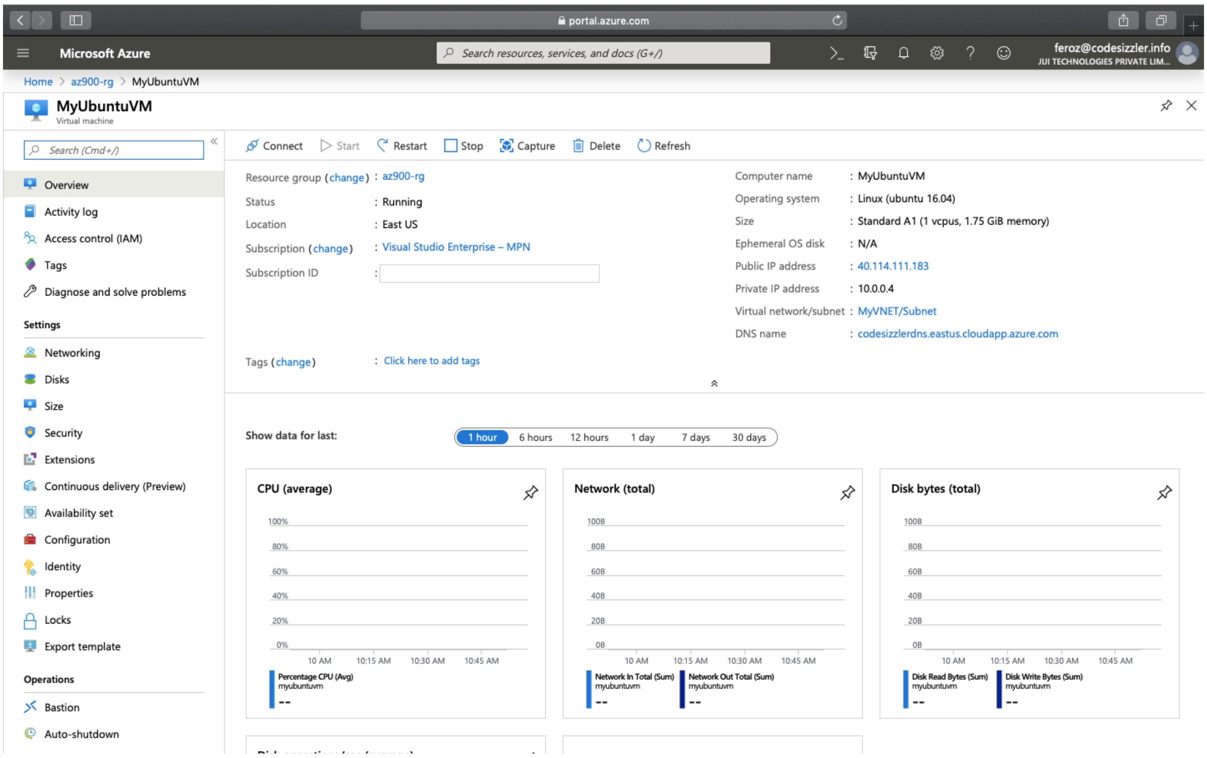
By clicking "Purchase," I (a) agree to the applicable legal terms associated with the offering; (b) authorize Microsoft to charge or bill my current payment method for the fees associated the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the offering(s); and (c) agree that, if the deployment involves 3rd party offerings, Microsoft may share my contact information and other details of such deployment with the publisher of that offering.

☑ I agree to the terms and conditions stated above

Note: When the deployment starts, a notification appears in Azure Portal indicating the deployment is in progress. Another notification is displayed when the deployment has completed successfully.

3. When the deployment has completed, choose **Go to resource group** from the notification area to open the Azure resource group **Overview** blade. You can also select **Resource groups** from the main Azure menu, then choose your resource group from the list.

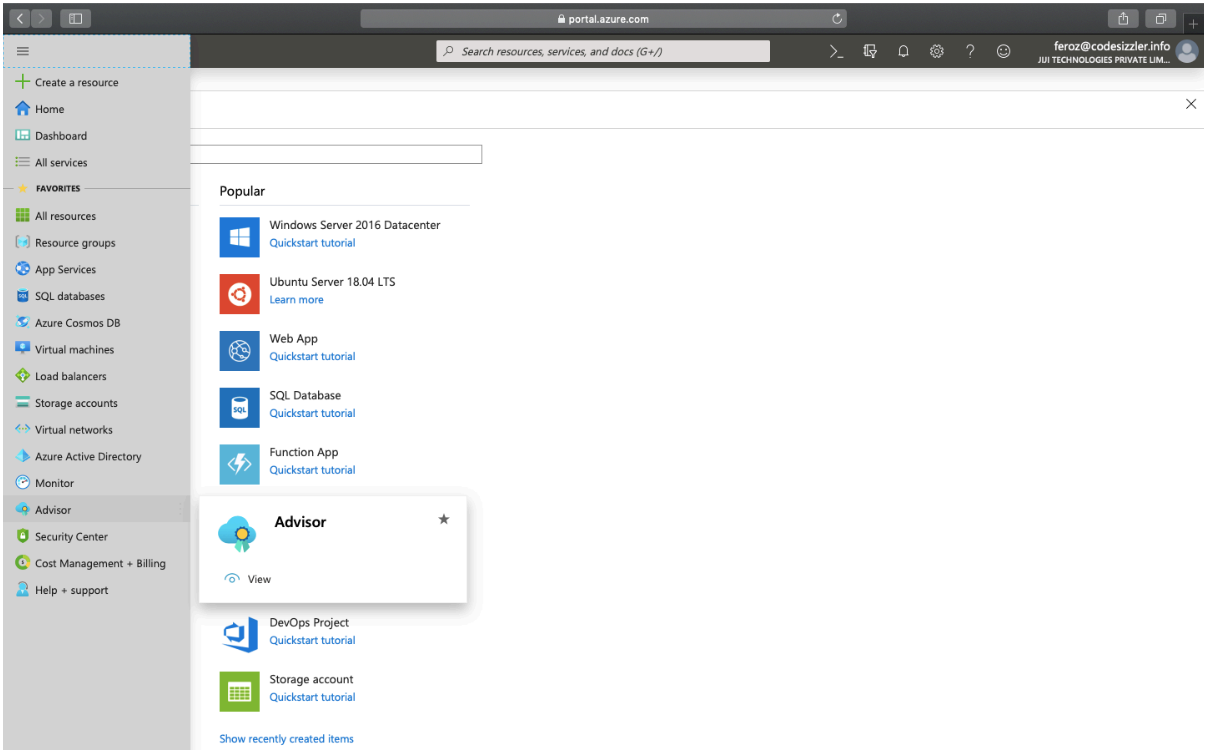
4. Verify that the new VM and associated network resources are present in the Azure resource group **Overview** pane.



Resource group (change) : az900-rg
Status : Running
Location : East US
Subscription (change) : Visual Studio Enterprise – MPN
Subscription ID :
Tags (change) : Click here to add tags

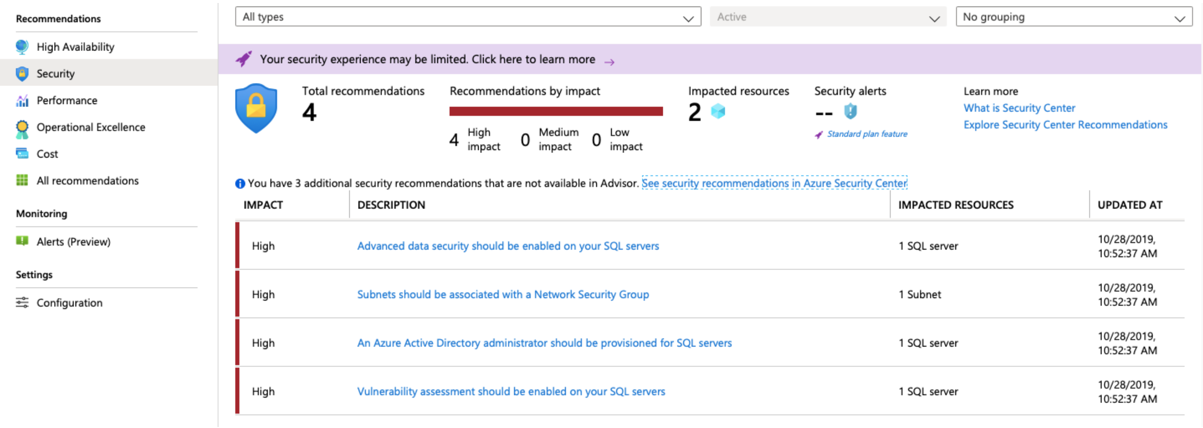
Computer name : MyUbuntuVM
Operating system : Linux (ubuntu 16.04)
Size : Standard A1 (1 vcpus, 1.75 GiB memory)
Ephemeral OS disk : N/A
Public IP address : 40.114.111.183
Private IP address : 10.0.0.4
Virtual network/subnet : MyVNET/Subnet
DNS name : codesizzlerdns.eastus.cloudapp.azure.com

5. Open **Advisor** from the main Azure menu. The **Recommendations** tile under **Overview**, and panels, allow you to filter the recommendations identified by Azure Advisor. For example, for an overview of Security Center recommendations, select the **Security** panel.



Note: Azure Advisor recommendations are unique to your Azure configuration and usage history. More or less recommendations may be available, in accordance with your Azure resource configurations and usage telemetry.

6. Choose **Follow Security Center Recommendations** to see a list of security center recommendations applicable to your subscription.



Recommendations
- High Availability
- Security
- Performance
- Operational Excellence
- Cost
- All recommendations

Monitoring
- Alerts (Preview)

Settings
- Configuration

All types | Active | No grouping

Your security experience may be limited. Click here to learn more →

Total recommendations: 4

Recommendations by impact: 4 High impact, 0 Medium impact, 0 Low impact

Impacted resources: 2

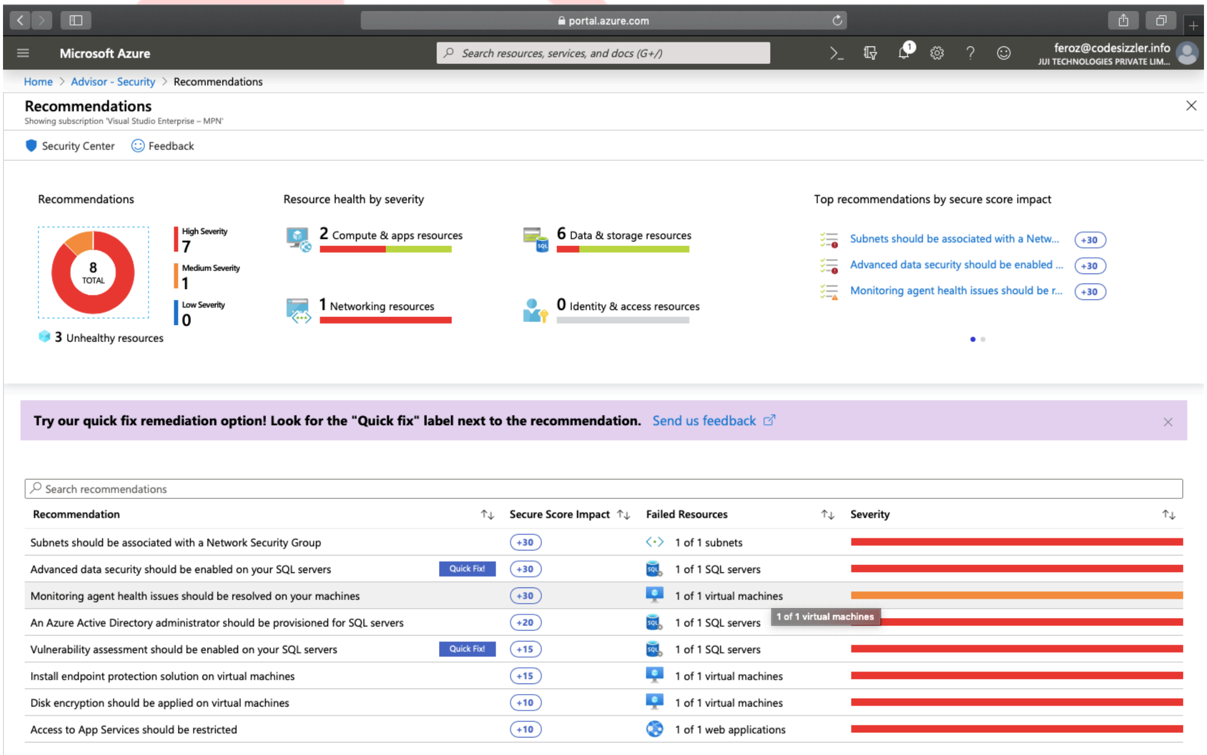
Security alerts: -- Standard plan feature

Learn more: What is Security Center, Explore Security Center Recommendations

You have 3 additional security recommendations that are not available in Advisor. See security recommendations in Azure Security Center

IMPACT	DESCRIPTION	IMPACTED RESOURCES	UPDATED AT
High	Advanced data security should be enabled on your SQL servers	1 SQL server	10/28/2019, 10:52:37 AM
High	Subnets should be associated with a Network Security Group	1 Subnet	10/28/2019, 10:52:37 AM
High	An Azure Active Directory administrator should be provisioned for SQL servers	1 SQL server	10/28/2019, 10:52:37 AM
High	Vulnerability assessment should be enabled on your SQL servers	1 SQL server	10/28/2019, 10:52:37 AM

7. Select a recommendation from the list for more information. The following example shows how to access information about applying disk encryption to VMs. Explore the other recommendations to learn about Azure Advisor.



portal.azure.com

Microsoft Azure | Search resources, services, and docs (G+/) | feroz@codesizzler.info JUI TECHNOLOGIES PRIVATE LIM...

Home > Advisor - Security > Recommendations

Recommendations

Showing subscription 'Visual Studio Enterprise – MPN'

Security Center | Feedback

Recommendations: 8 TOTAL; High Severity 7; Medium Severity 1; Low Severity 0; 3 Unhealthy resources

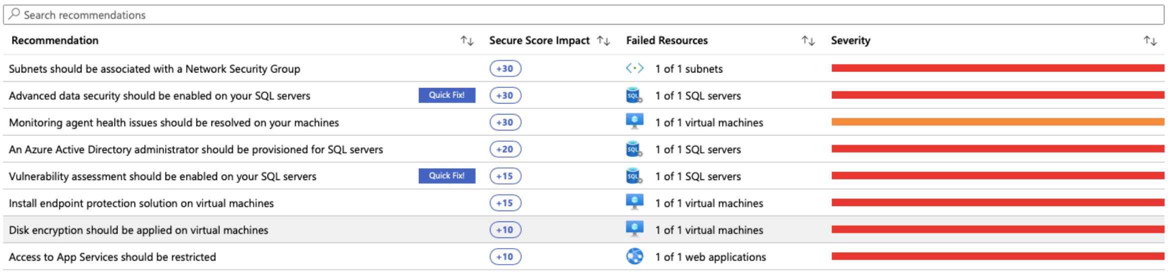
Resource health by severity: 2 Compute & apps resources; 6 Data & storage resources; 1 Networking resources; 0 Identity & access resources

Top recommendations by secure score impact:
- Subnets should be associated with a Netw... +30
- Advanced data security should be enabled ... +30
- Monitoring agent health issues should be r... +30

Try our quick fix remediation option! Look for the "Quick fix" label next to the recommendation. Send us feedback

Search recommendations

Recommendation		Secure Score Impact	Failed Resources	Severity
Subnets should be associated with a Network Security Group		+30	1 of 1 subnets	🟥
Advanced data security should be enabled on your SQL servers	Quick Fix!	+30	1 of 1 SQL servers	🟥
Monitoring agent health issues should be resolved on your machines		+30	1 of 1 virtual machines	🟧
An Azure Active Directory administrator should be provisioned for SQL servers		+20	1 of 1 SQL servers	1 of 1 virtual machines 🟥
Vulnerability assessment should be enabled on your SQL servers	Quick Fix!	+15	1 of 1 SQL servers	🟥
Install endpoint protection solution on virtual machines		+15	1 of 1 virtual machines	🟥
Disk encryption should be applied on virtual machines		+10	1 of 1 virtual machines	🟥
Access to App Services should be restricted		+10	1 of 1 web applications	🟥



Search recommendations

Recommendation		Secure Score Impact	Failed Resources	Severity
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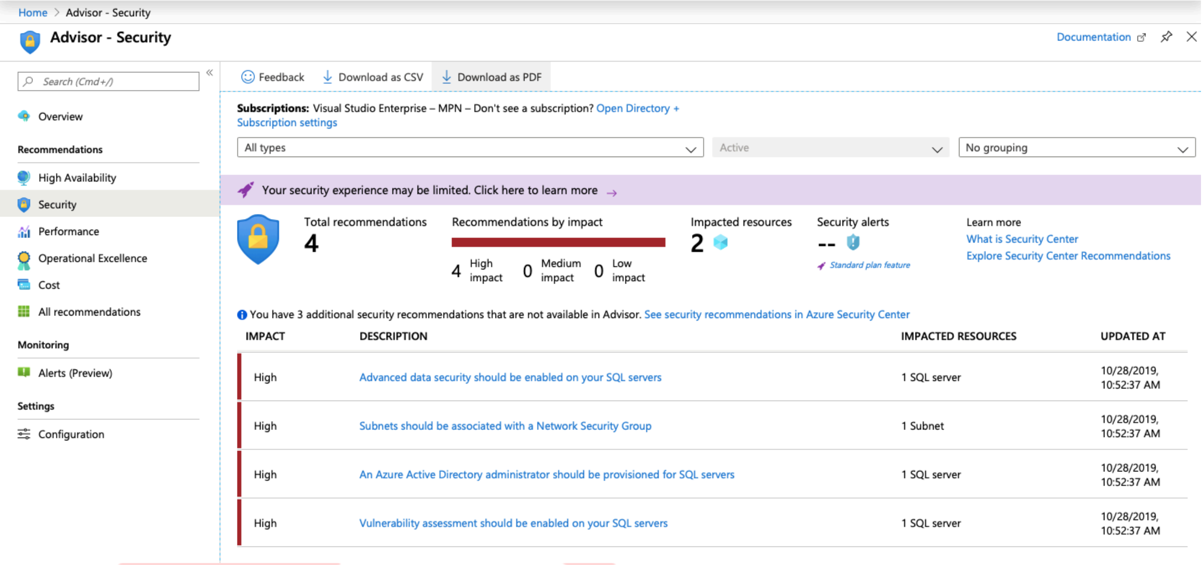
Vulnerability assessment should be enabled on your SQL servers	Quick Fix!	+15	1 of 1 SQL servers	🟥
Install endpoint protection solution on virtual machines		+15	1 of 1 virtual machines	🟥
Disk encryption should be applied on virtual machines		+10	1 of 1 virtual machines	🟥
Access to App Services should be restricted		+10	1 of 1 web applications	🟥

8. To download an Azure Advisor recommendations report, return to the **Azure Advisor Overview**. Select **Download recommendations** as PDF or CSV, and save the report file.



Home > Advisor - Security

Advisor - Security

Documentation

Search (Cmd+/)

Overview

Recommendations

- High Availability
- Security
- Performance
- Operational Excellence
- Cost
- All recommendations

Monitoring

- Alerts (Preview)

Settings

- Configuration

Feedback | Download as CSV | Download as PDF

Subscriptions: Visual Studio Enterprise – MPN – Don't see a subscription? Open Directory + Subscription settings

All types | Active | No grouping

Your security experience may be limited. Click here to learn more →

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Explore Security Center Recommendations

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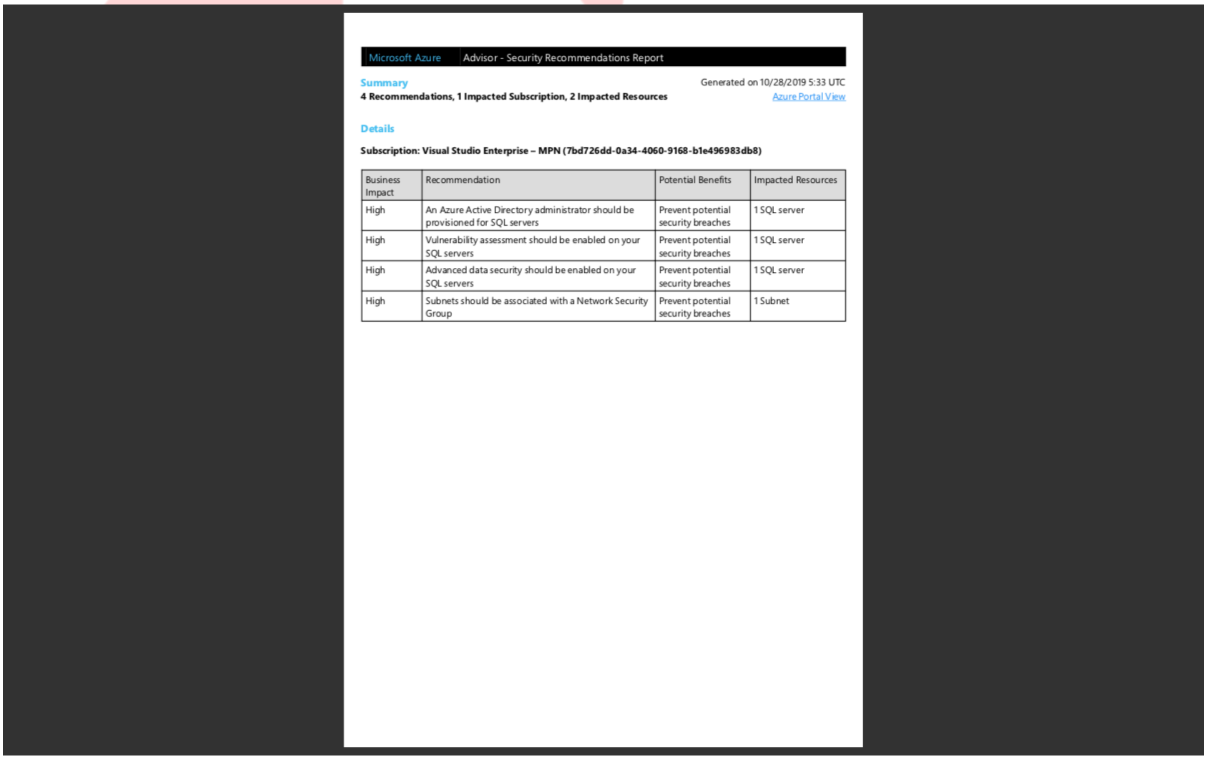

Microsoft Azure | Advisor - Security Recommendations Report

Summary

4 Recommendations, 1 Impacted Subscription, 2 Impacted Resources

Generated on 10/28/2019 5:33 UTC

Azure Portal View

Details

Subscription: Visual Studio Enterprise – MPN (7bd726dd-0a34-4060-9168-b1e496983db8)

Business Impact	Recommendation	Potential Benefits	Impacted Resources
High	An Azure Active Directory administrator should be provisioned for SQL servers	Prevent potential security breaches	1 SQL server
High	Vulnerability assessment should be enabled on your SQL servers	Prevent potential security breaches	1 SQL server
High	Advanced data security should be enabled on your SQL servers	Prevent potential security breaches	1 SQL server
High	Subnets should be associated with a Network Security Group	Prevent potential security breaches	1 Subnet