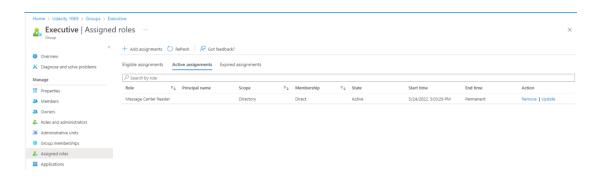
Secure the Juice

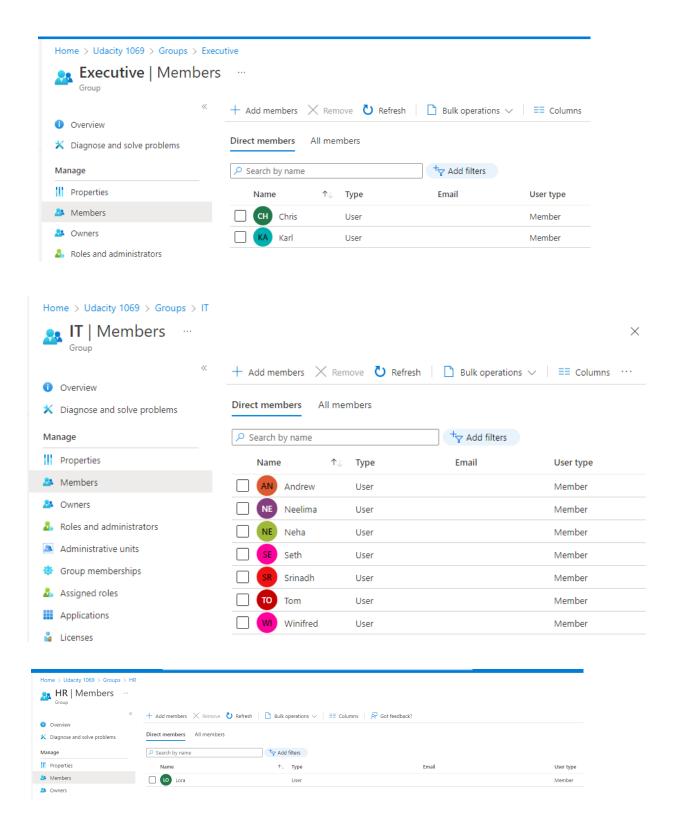
Identity and Access Management

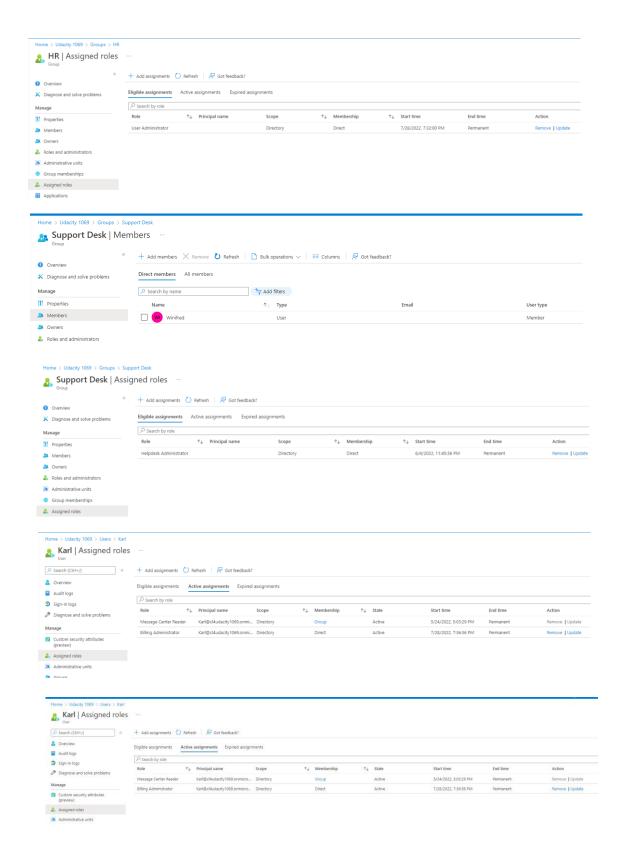
1. Design authentication and authorization controls that manage access, role assignments, and identity

Proof of Assigned roles and AD assignments

- a. Andrew
- b. Chris
- c. Karl
- d. Lora
- e. Neelima
- f. Neha
- g. Seth
- h. Srinadh
- i. Tom
- i. Winifred
- Screenshot(s) that clearly display all Azure AD roles and Azure AD Assignments for all required users.

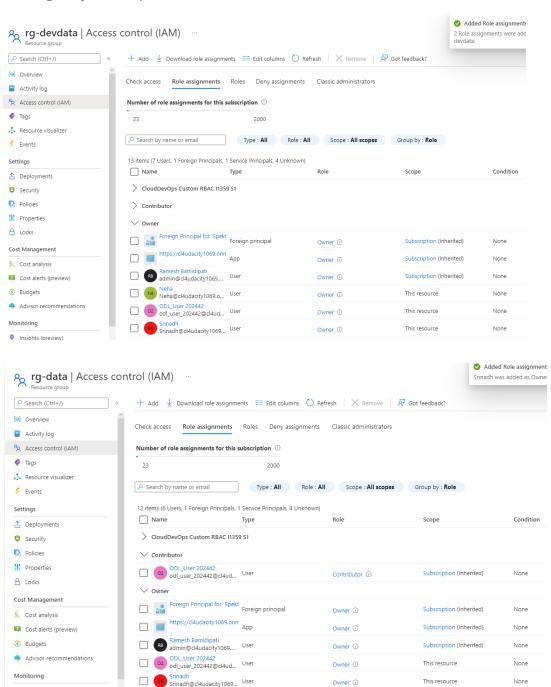




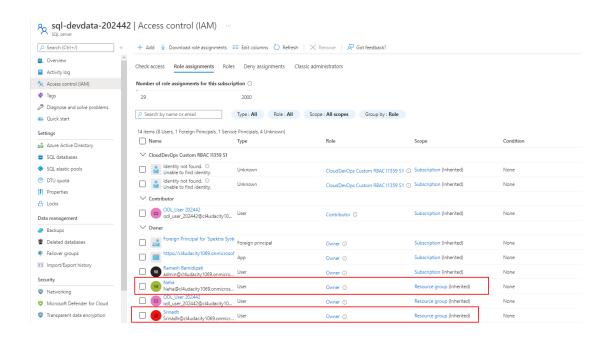


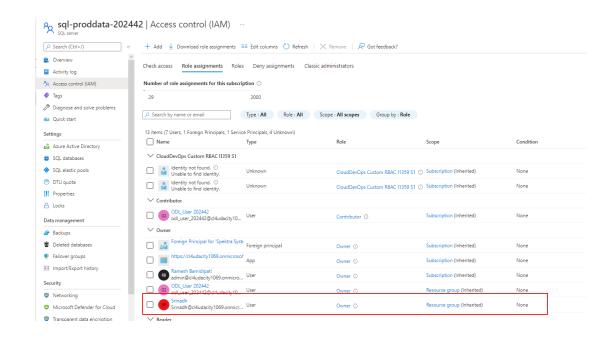


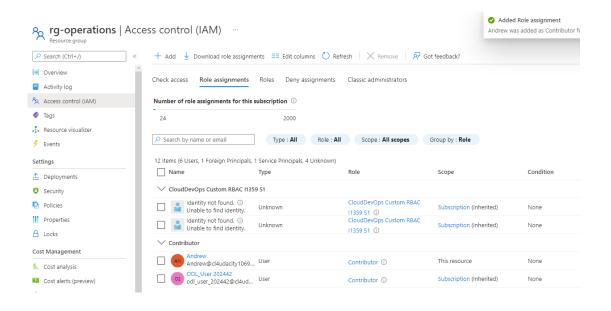
Screenshot(s) that clearly displays Global Admin PIM screen showing duration, eligibility, and expiration.

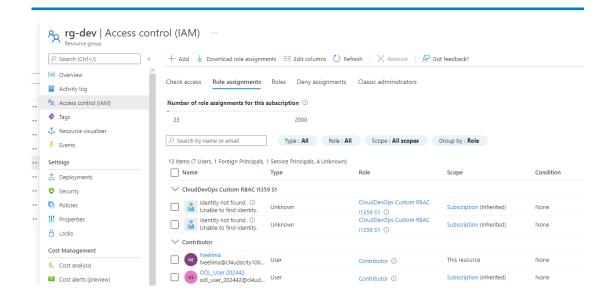


Owner ①

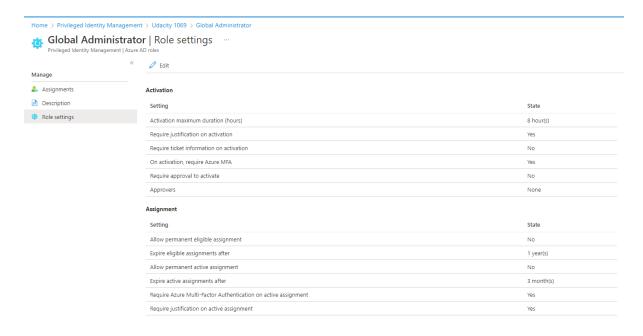








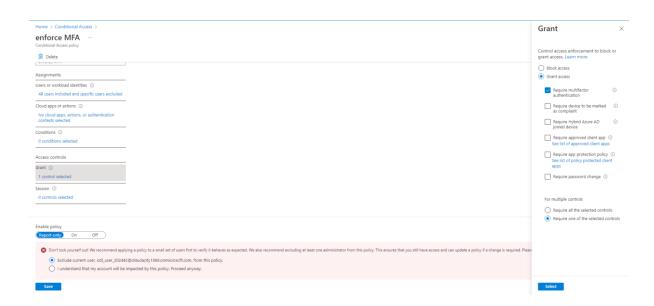
Proof of Global Administrator setting with duration, eligibility, expiration



2. Configure MFA and Conditional Access policies to require MFA for all users.

 Screenshots of Conditional Access policy that clearly demonstrates that MFA has been configured for all users.

Resubmitted -



Screenshots of Multi-Factor authentication configuration pages that clearly demonstrate the stated requirements here:

- MFA tokens should expire every 14 days.
- The Charlotte office is considered a trusted site
- MFA should not be required in the Charlotte Office.
- The Charlotte office has an IP address range of 143.52.0.0/24

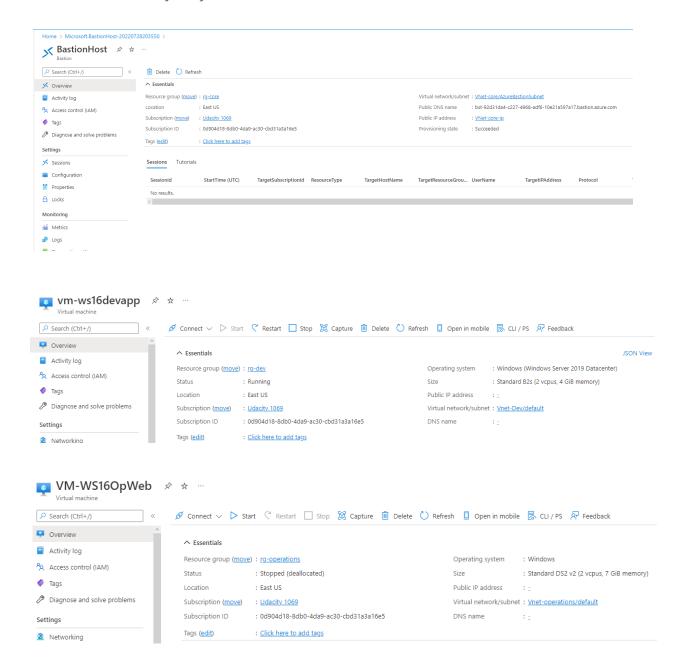
Resubmitted --

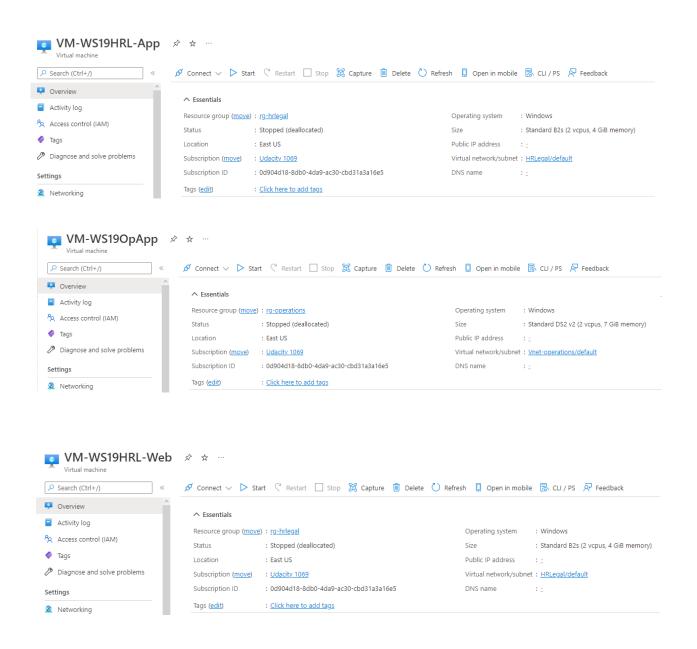
| multi-factor authentication users service settings |
|---|
| app passwords (learn more) |
| O Allow users to create app passwords to sign in to non-browser apps O not allow users to create app passwords to sign in to non-browser apps |
| trusted ips (learn more) |
| ☑ Skip multi-factor authentication for requests from federated users on my intranet |
| Skip multi-factor authentication for requests from following range of IP address subnets |
| 143.52.0.0/24 |
| |
| |
| |
| |
| |
| |
| |
| verification options (learn more) |
| Methods available to users: |
| ☐ Call to phone ☐ Text message to phone |
| ✓ Notification through mobile app |
| ✓ Verification code from mobile app or hardware token |
| remember multi-factor authentication on trusted device (learn more) |
| Allow users to remember multi-factor authentication on devices they trust (between one to 365 days) |
| Number of days users can trust devices for 14 NOTE: For the optimal user experience, we recommend using Conditional Access sign-in frequency to extend session lifetimes on trusted devices, locations, or low-risk sessions as an alternative to 'Remember MFA on a trusted device' settings. If using 'Remember MFA on a trusted device,' be sure to extend the duration to 90 or more days. Learn more about reauthentication prompts. |
| save |
| |

Network Security

1. Configure Azure Bastion to allow secure connectivity from the Azure Portal to the Azure Virtual machines.

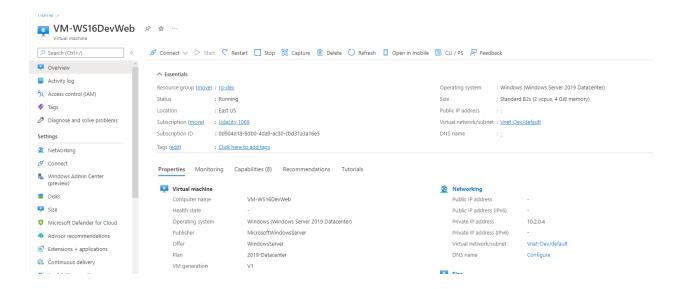
Screenshot of the Bastion Overview page should indicate the virtual network/subnet. Placed correctly, only one Bastion will be needed.





2. Reduce attack footprint by removing public IP addresses.

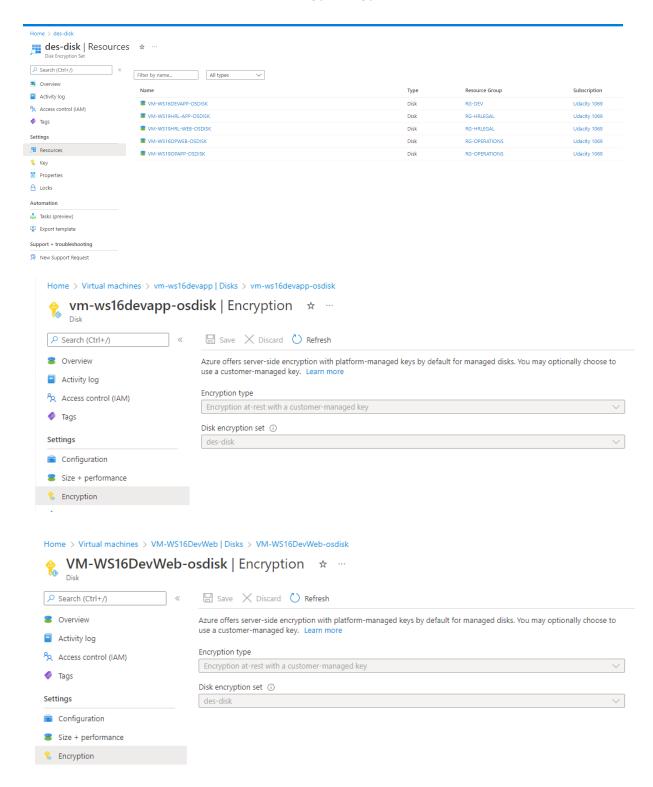
The screenshot clearly shows public IP address is blank for each VM

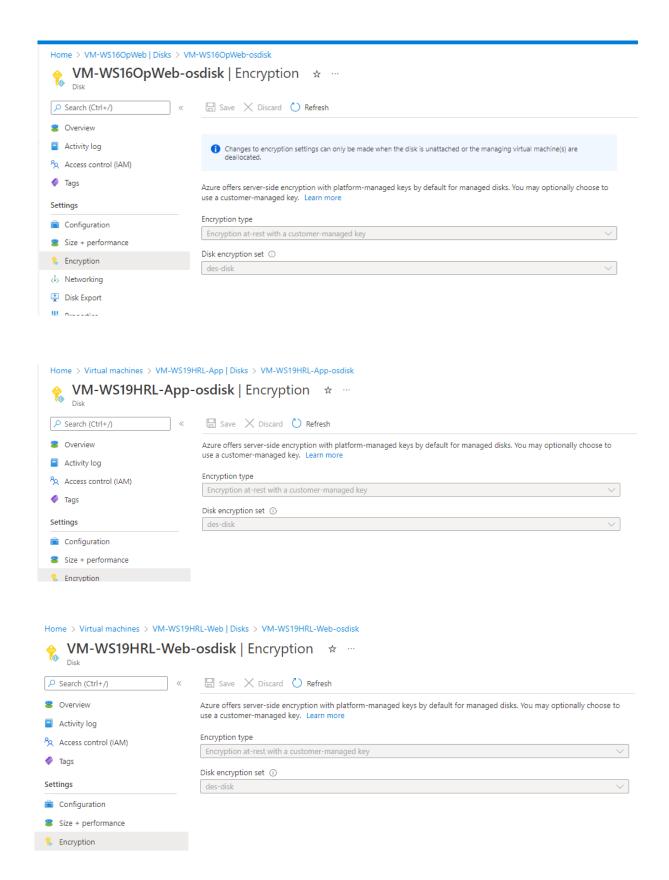


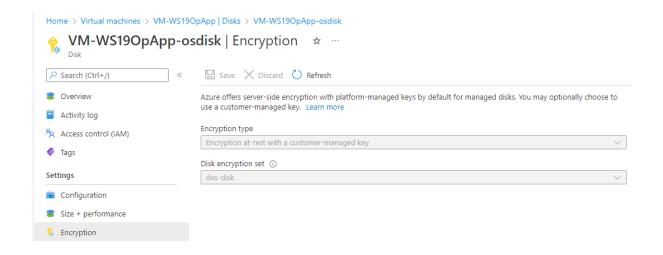
Data and Encryption

1. Protect data at rest by encrypting data disks using a customer-managed key

Screenshots should show the disk encryption type for each VM.

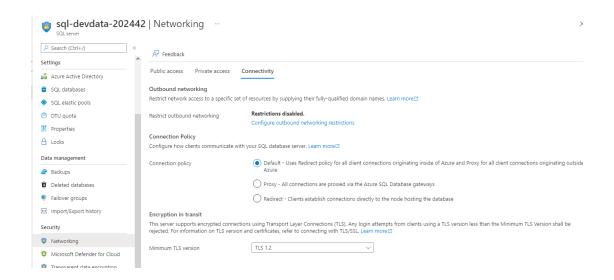


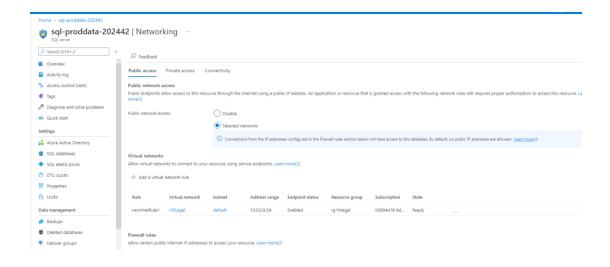


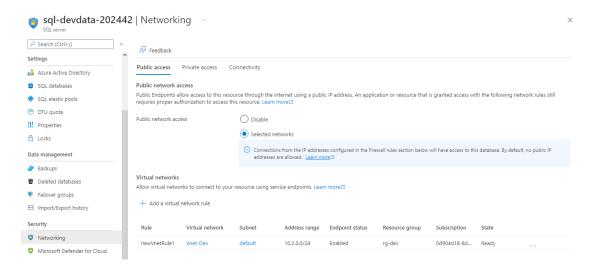


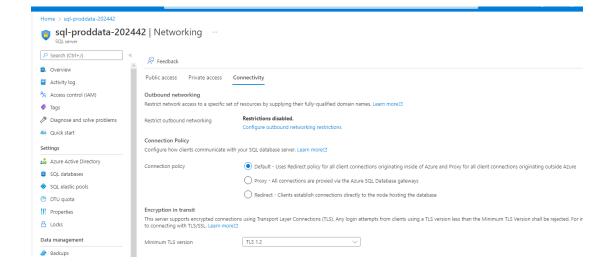
Secure traffic to SQL servers and databases by limiting public network access, enforcing TLS minimum requirements, and setting allowed IPs or network requirements

A screenshot of the Firewalls and Virtual networks page for SQL servers that clearly shows the required configuration for no public access and TLS



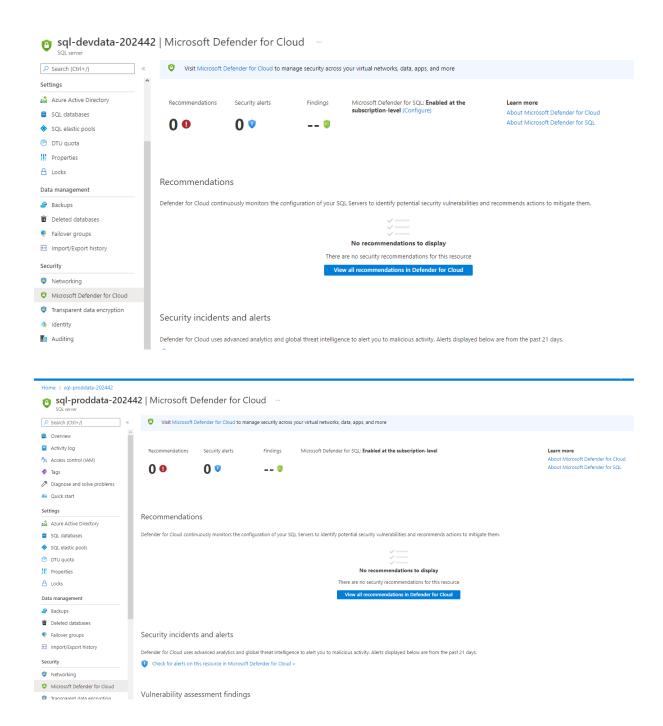






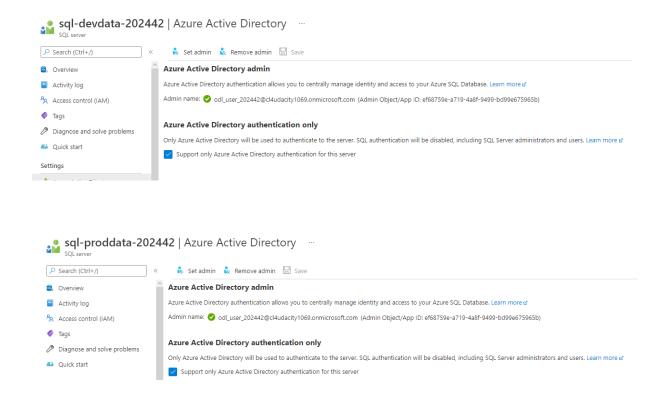
3. Protect SQL data by enabling Azure Defender for SQL.

Screenshot that shows Azure Defender for SQL is enabled.



4. Secure Azure SQL by enforcing Azure AD authentication over the weaker SQL authentication methods.

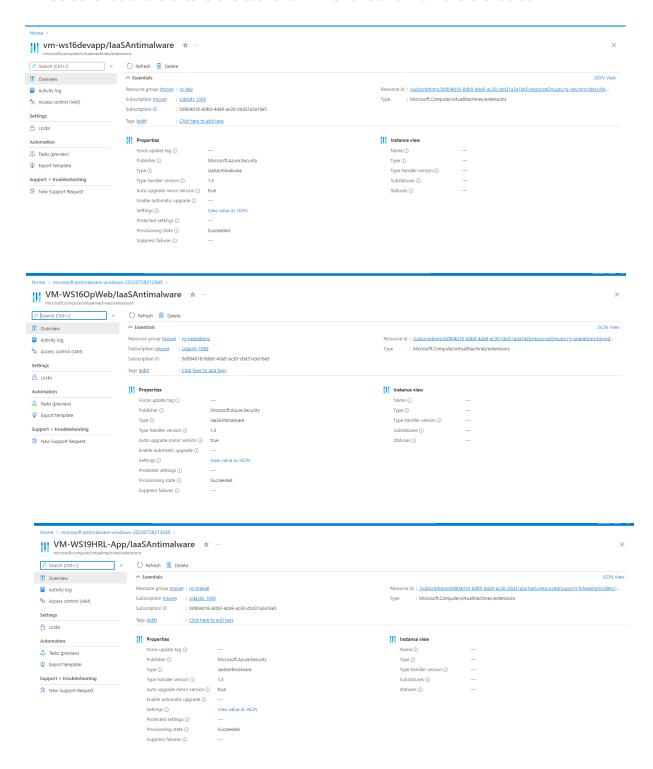
Show screenshot of Azure AD authentication for SQL enabled

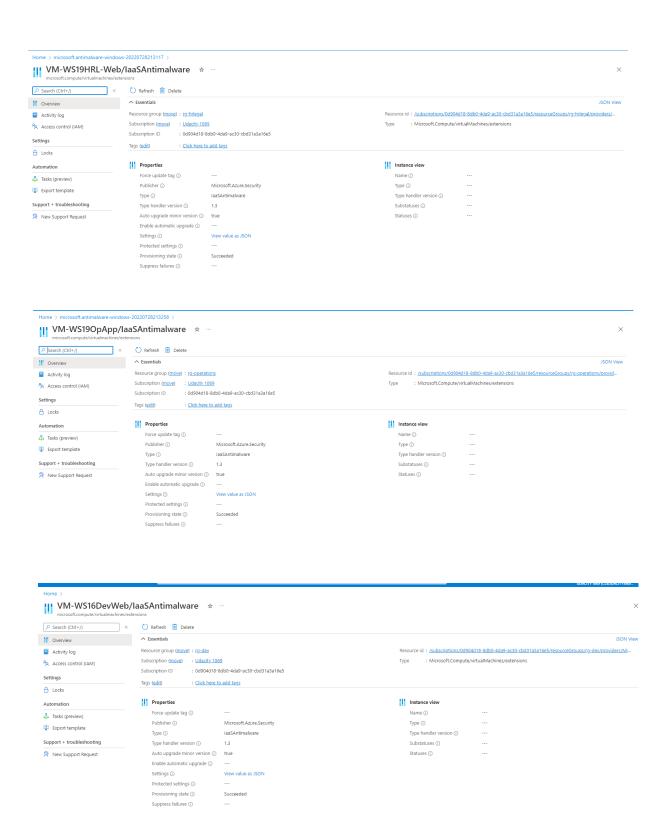


Protection

1. Protect virtual machines from malware by using available extensions.

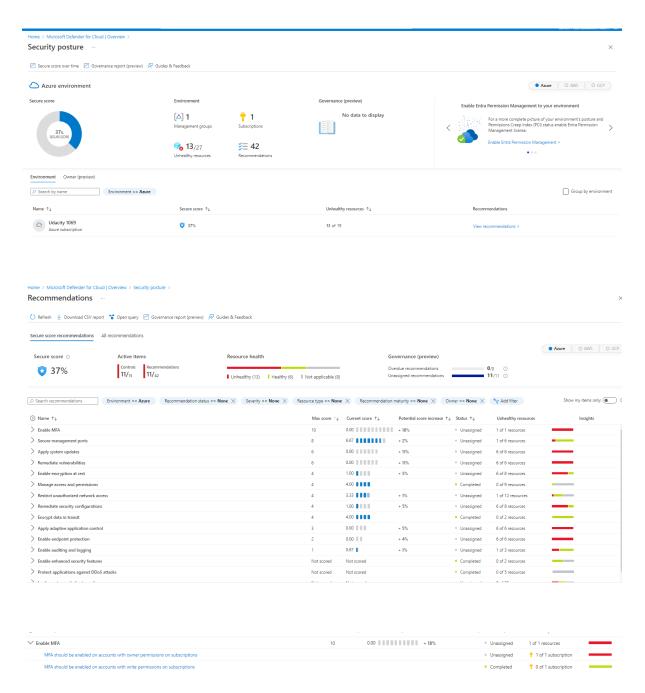
Screenshot of the extensions tab for all VM shows anti-malware is enabled





2. Track and remediate vulnerabilities against Azure Security Center (ASC) Default policy

A list of at least 3 recommendations with the justification to remediate vulnerabilities (text file)



User accounts requiring MFA

Enable MFA for the following user accounts:

Ramesh Bamidipati



Recommendation in Text with the justification to remediate vulnerabilities

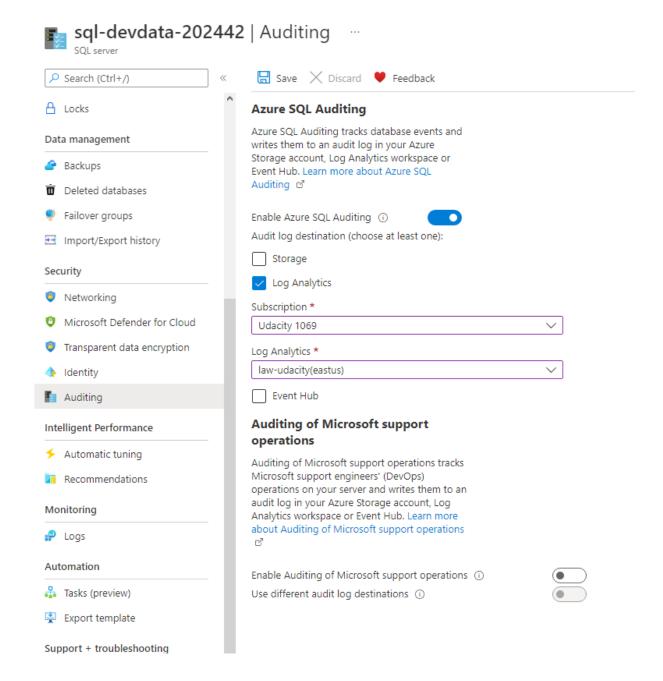
- 1. "Enable MFA" currently has a score of 0/10. So, it has the biggest impact on security if we fix it. MFA is not set up for user account Ramesh Bamidipati, so we should setup for him
- 2. The other 2 top remediations are "Apply system updates" and "Remediate vulnerabilities". Both of them have a score of 0/6. So, that can be done also.
- 3. We should install the log analytics agent on all of our VMs.
- 4. And we should install vulnerability assessment tools on our VMs.

Resubmitted -

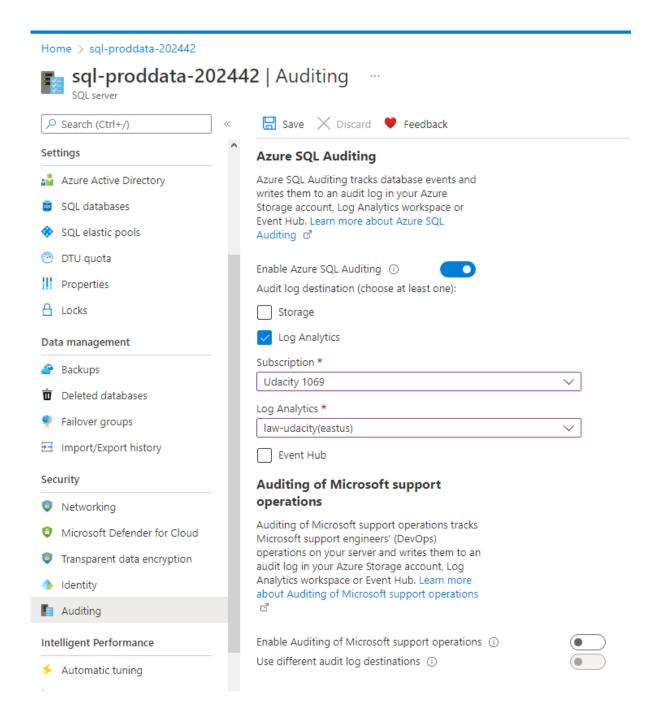
Monitoring

1. Configure Azure Sentinel Connectors.

Provide screenshot of Azure Sentinel Data Connectors Page.

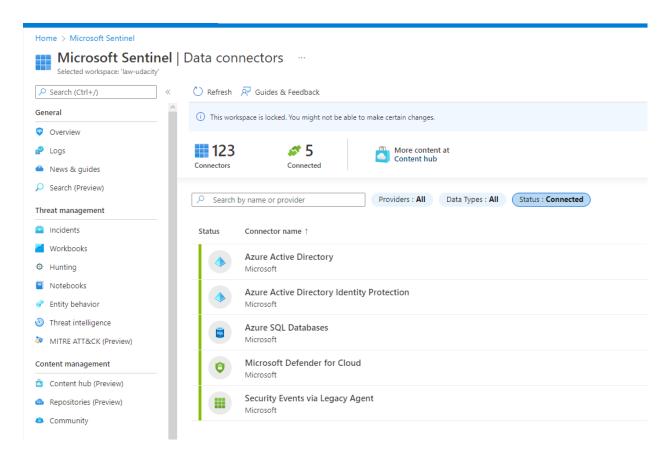


At least Azure Active Directory and Azure Active Directory Identity Protection connectors should be selected



2. Monitor and Protect SQL databases by configuring auditing.

Provide screenshot showing SQL Auditing is enabled with Log Analytics Workspace



Compliance

1. Enable monitoring of established industry and regulatory standards

Screenshot proof of added NIST SP 800-53 rev4 policy

