Attention students:

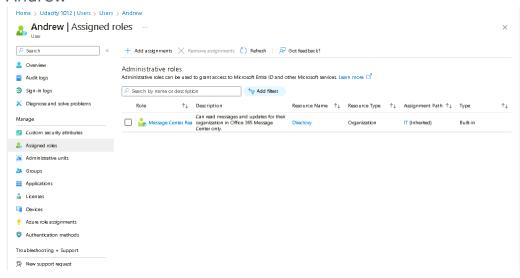
In order to demonstrate successful completion of all components in the project, please use screenshot(s) to show each completed action step as specified on the instructions page.

Identity and Access Management

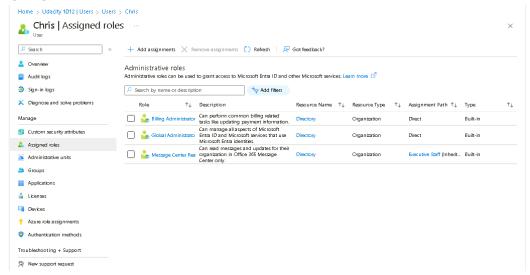
Users	Role	Department	City	Password
Tom	IT engineer	IT	Detroit	Pass123!
Andrew	IT engineer	IT	Charlotte	Pass123!
Srinadh	DBA	IT	Detroit	Pass123!
Neelima	Dev Team Lead	IT	Detroit	Pass123!
Rajiv	Developer	IT	Phoenix	Pass123!
Debora	HR Operations Lead	IT	Phoenix	Pass123!
Neha	Dev DBA	IT	Phoenix	Pass123!
Sean	Web Designer	IT	Detroit	Pass123!
Doug	QA Tester	IT	Remote	Pass123!
Igor	Financial Analyst	Finance	Tampa	Pass123!
Chris	CIO	Executive Staff	Charlotte	Pass123!
Karl	coo	Executive Staff	Charlotte	Pass123!
Garrett	Driver	Service Management	Remote	Pass123!
Sherrie	Salesperson	Sales	Remote	Pass123!
Allison	Legal Researcher	Legal	Phoenix	Pass123!
Kaitlyn	HR Admin	Human Resources	Tampa	Pass123!
Seth	Azure Architect	IT	Charlotte	Pass123!
Lora	HR Manager	Human Resources	Charlotte	Pass123!
Winifred	Support Desk Manager	IT	Charlotte	Pass123!
Michael	Support Desk Admin	IT	Detroit	Pass123!

Proof of Assigned roles and AD assignments

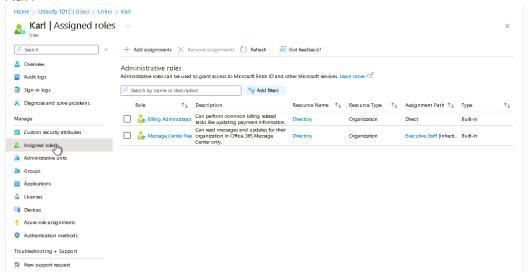
a. Andrew



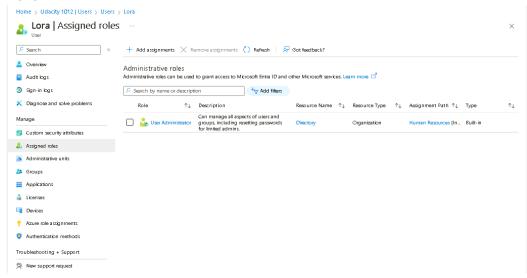
b. Chris



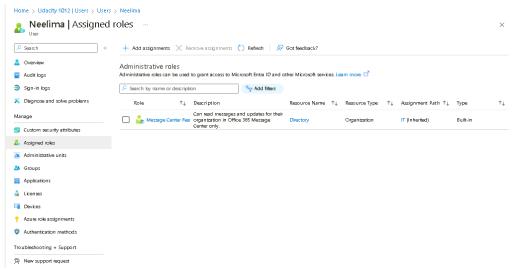
c. Karl



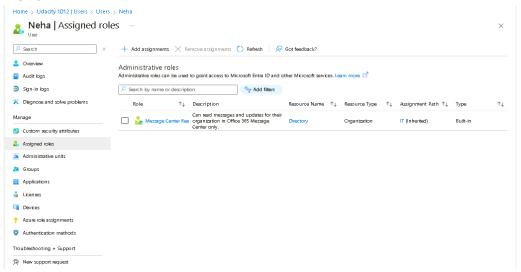
d. Lora



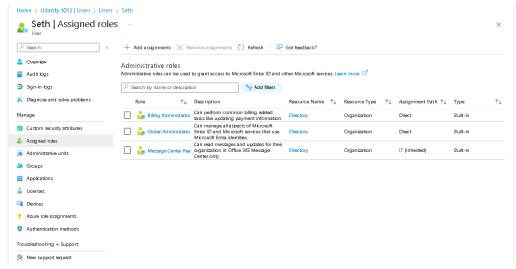
e. Neelima



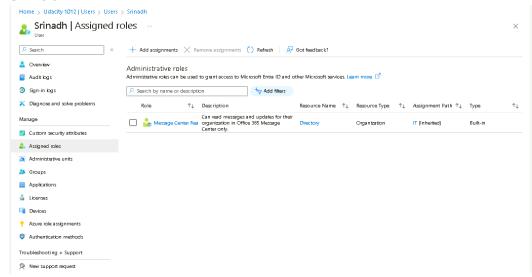
f. Neha



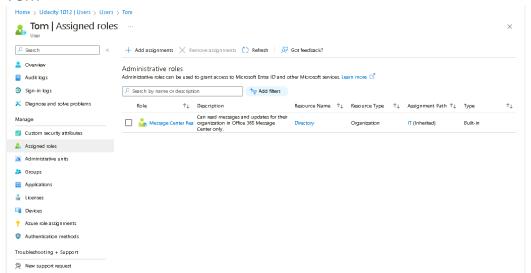
g. Seth



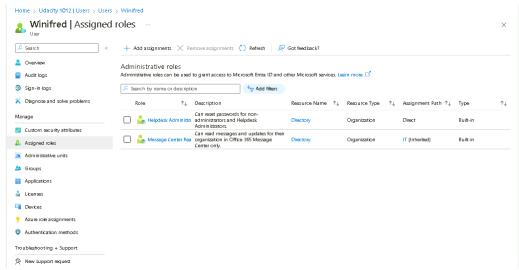
h. Srinadh

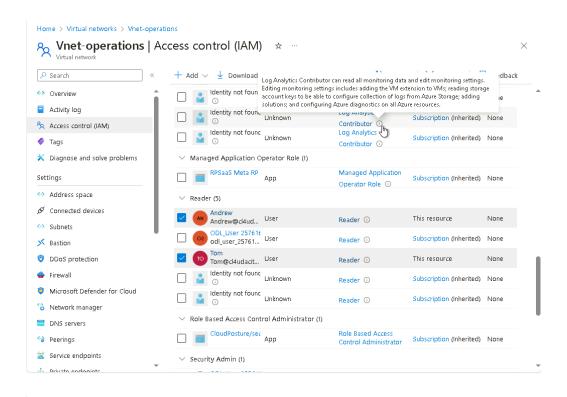


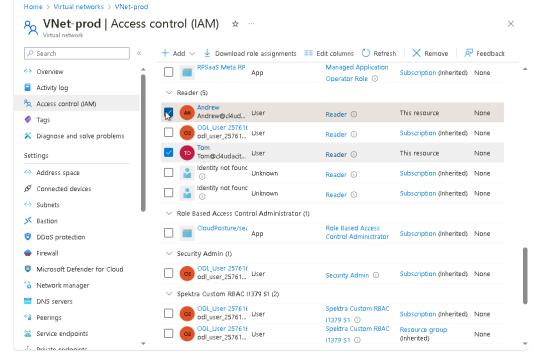
i. Tom

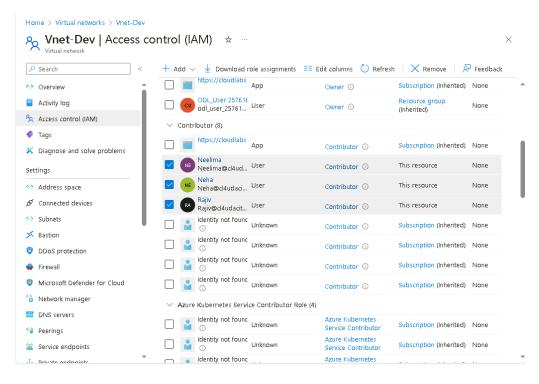


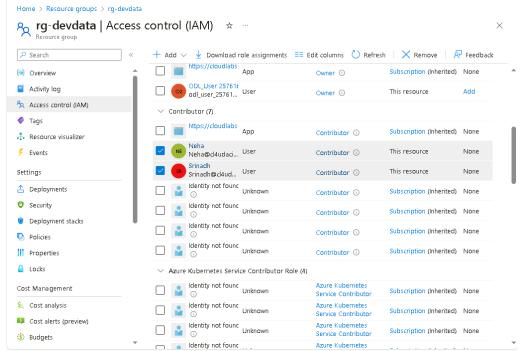
i. Winifred

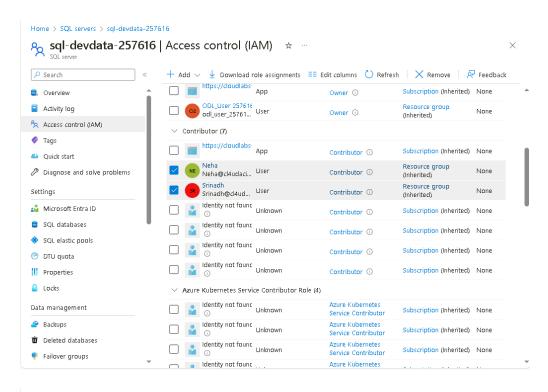


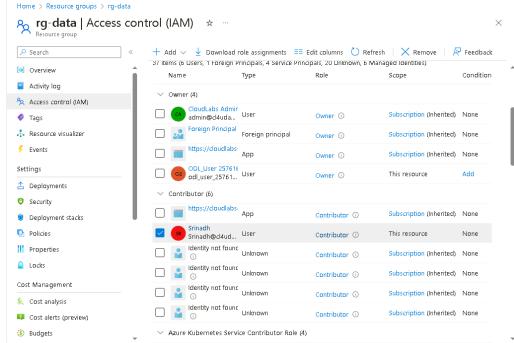


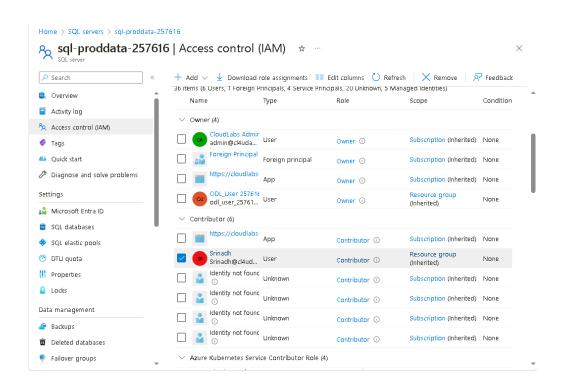




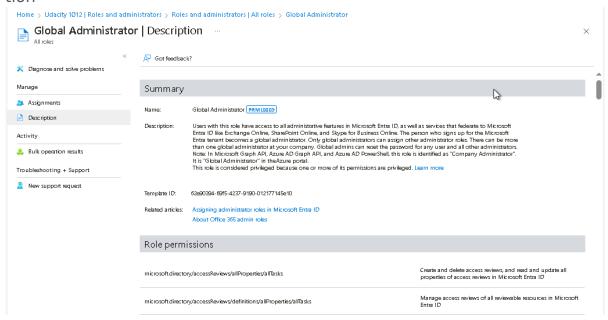




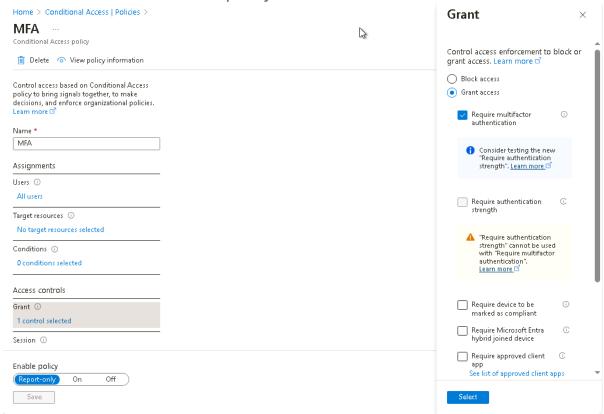




2. Proof of Global Administrator setting with duration, eligibility, expiration



3. Proof of Conditional Access policy all users

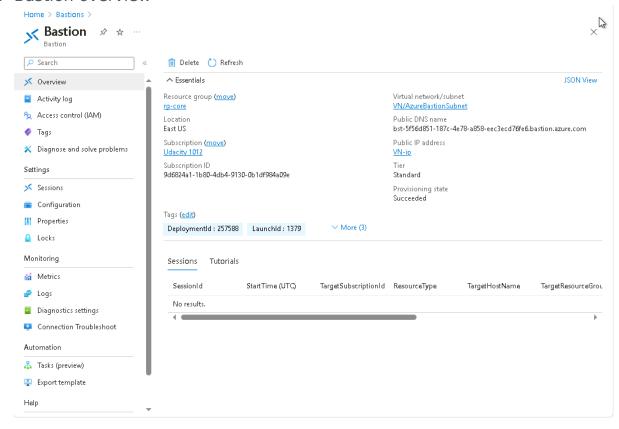


4. Proof of Multi-factor authentication(14 days, Charlotte office info)

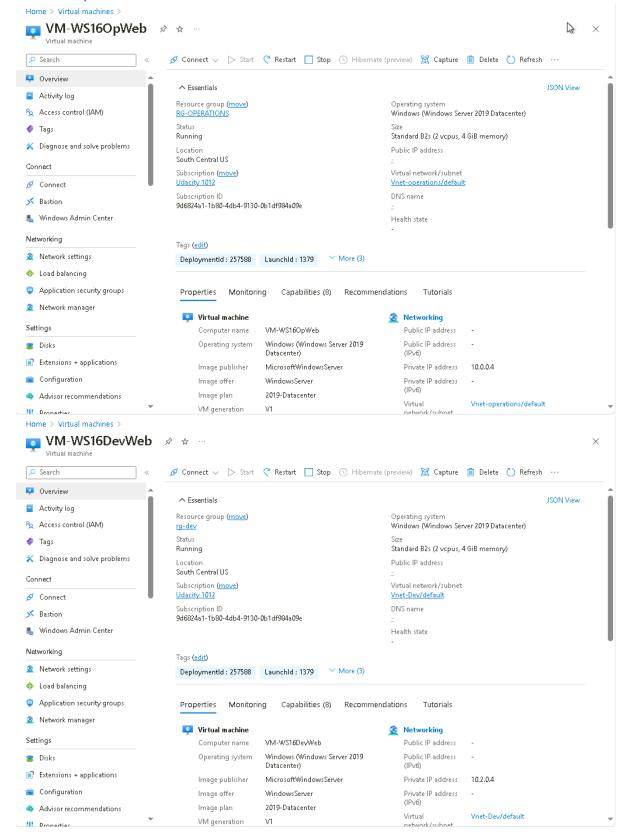
m use	ulti-factor authentication ers service settings					
арі	o passwords (leave more)					
○ ●	Allow users to icreate applipasswords to sign in to non-browser applis Do not allow users to create applipasswords to sign in to non-brows					
tru	sted ips (learn more)					
V	Stip multi-factor authentication for requests from federated users o	n my intranet				
Sŧi	ip multi-factor authentication for requests from following range of I	Pladdress subnets				
143.	52.0.0/24					
	:E4:4:					
ver	ification options (learn more)					
	hads available to users					
_	Call to phone Text message to phone					
	Notification through mobile app					
_	Verification code from mobile app or hardware token					
ren	nember multi-factor authentication on trusted devic	CE (learn mare)	3			
✓	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					
	(OTE For the optimal user experience, we recommend using Conditional Accessing in infrequency to extend session lifetimes on trusted devices, locations, or ow-risk sessions as an alternative to "Remember WFA on a trusted device," be sure to extend the duration to					
	90 or more days. Learn more about reauthentication prompts.					

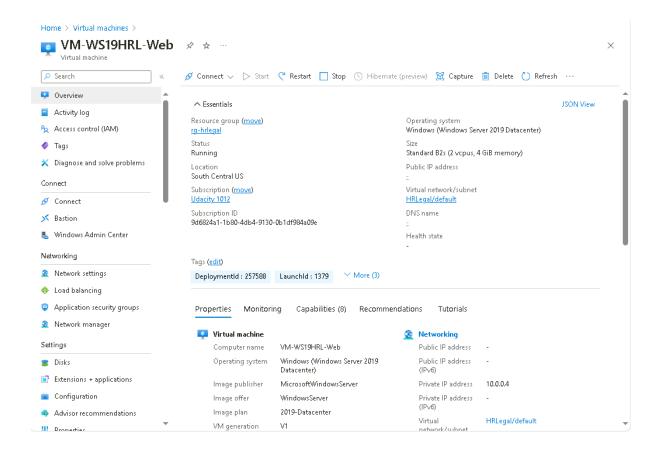
Network Security

1. Bastion overview



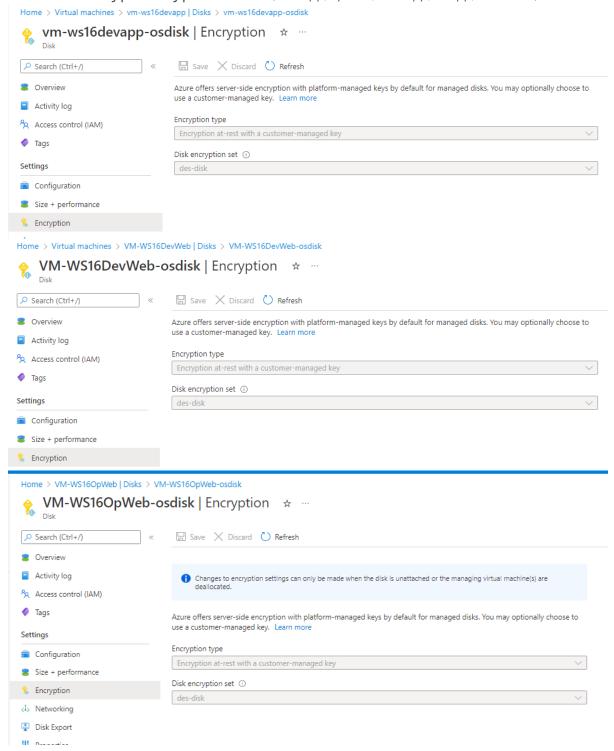
2. Proof of public IP addresses removed

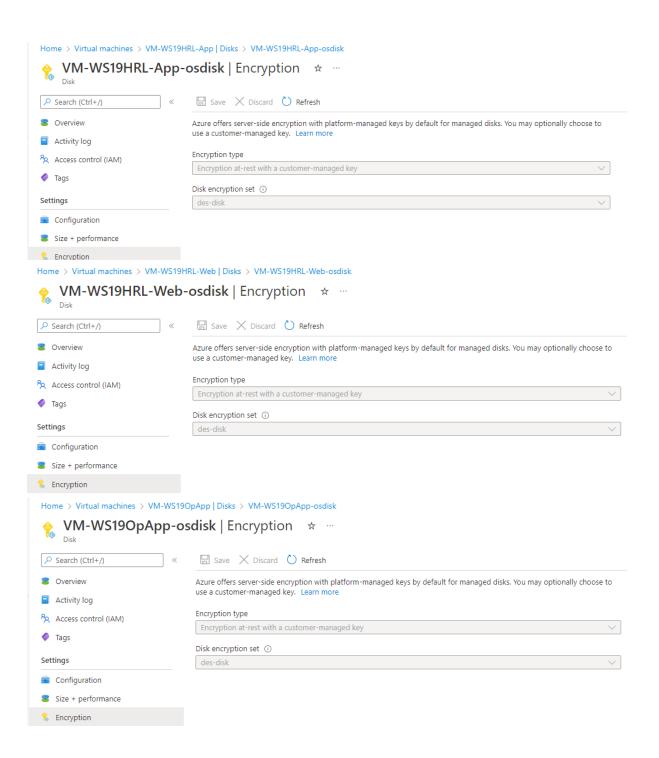




Data and Encryption

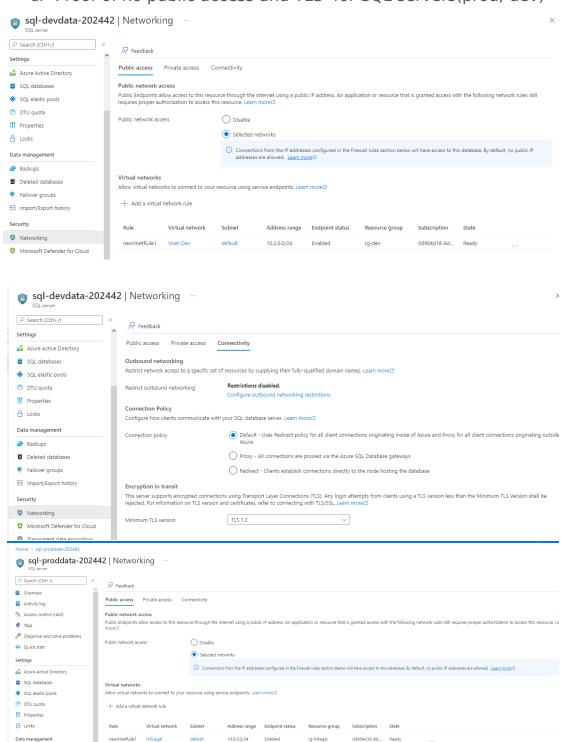
1. Proof of Encryption types for VM (devapp,OpWeb,HRL-App,OPApp, HRL-Web)

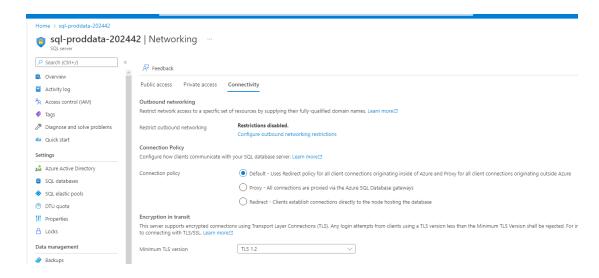




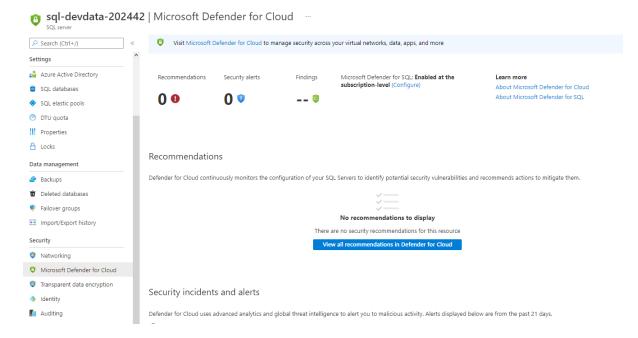
2. Firewalls and virtual networks page

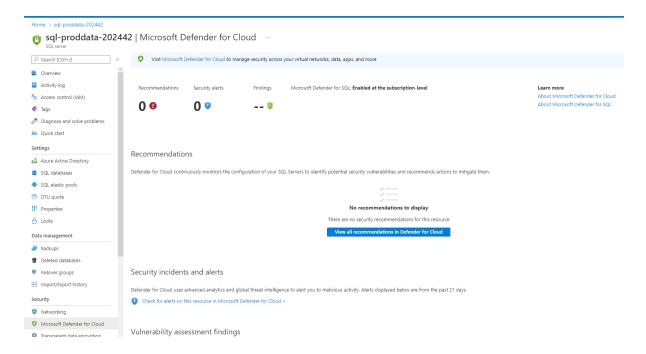
a. Proof of no public access and TLS for SQL servers(prod, dev)



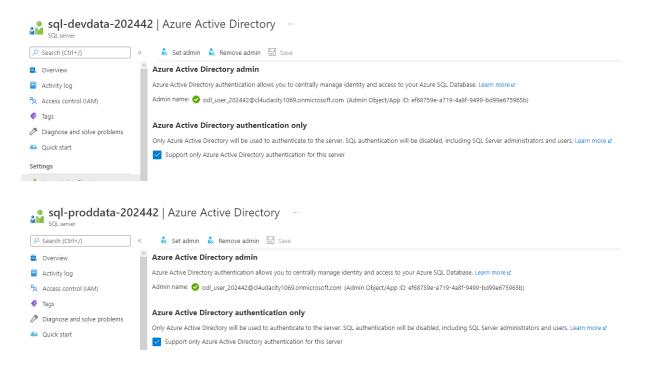


3. Proof of Azure Defender SQL server enabled(prod, dev)



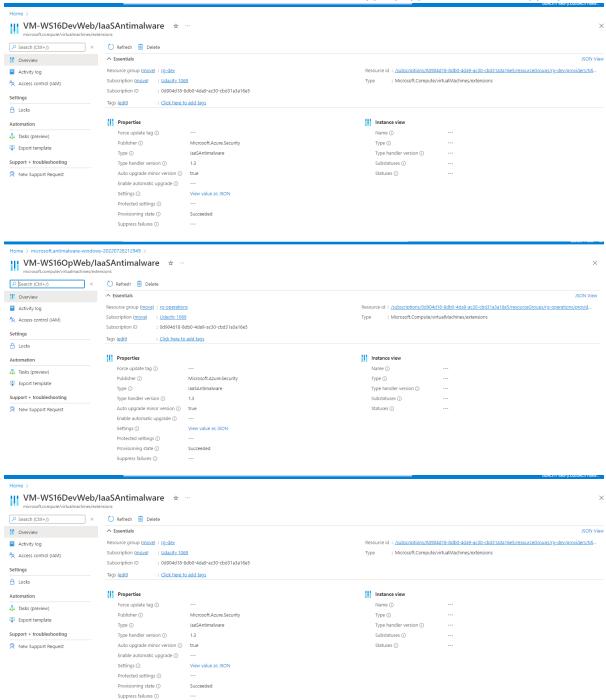


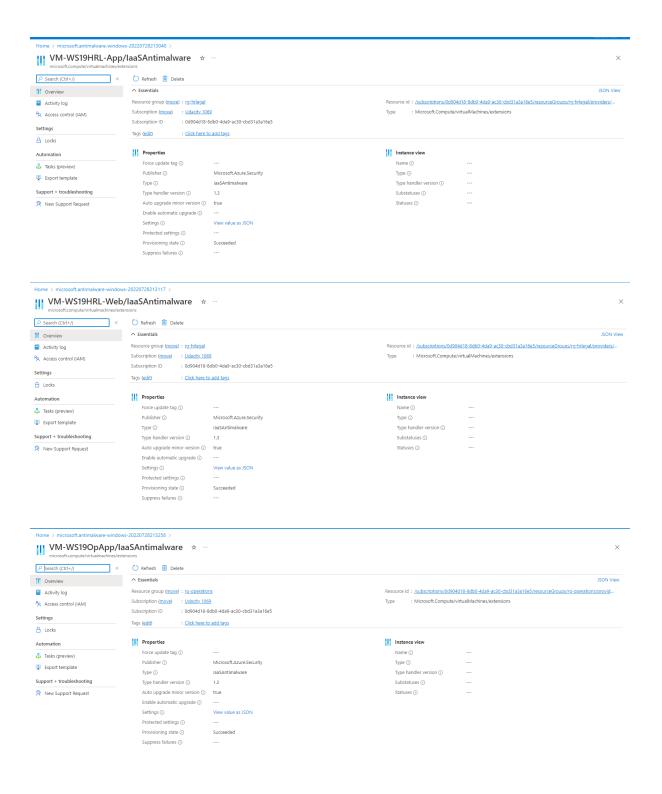
4. Proof of Azure AD authentication for SQL enabled(prod, dev)



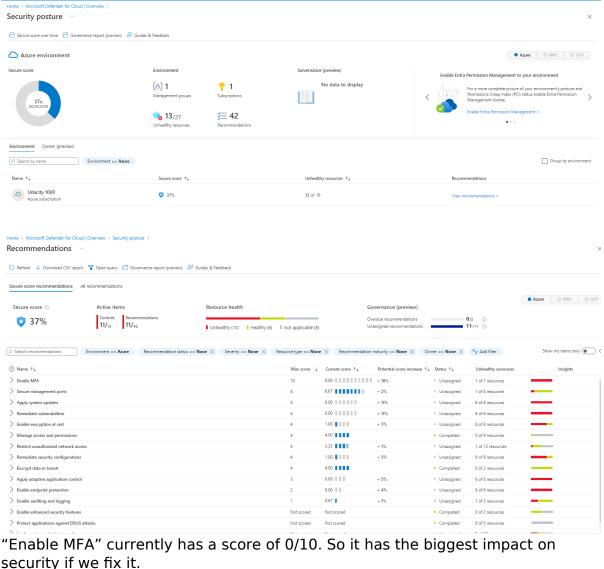
Cloud Protection

1. Proof of laaSAntimalware enabled (devapp,OpApp,HRL-Web, HRL-App,OpWeb)





Recommendations



security if we fix it.

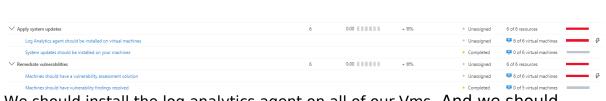


MFA is not set up for user account Ramesh Bamidipati.

User accounts requiring MFA Enable MFA for the following user accounts:

Ramesh Bamidipati

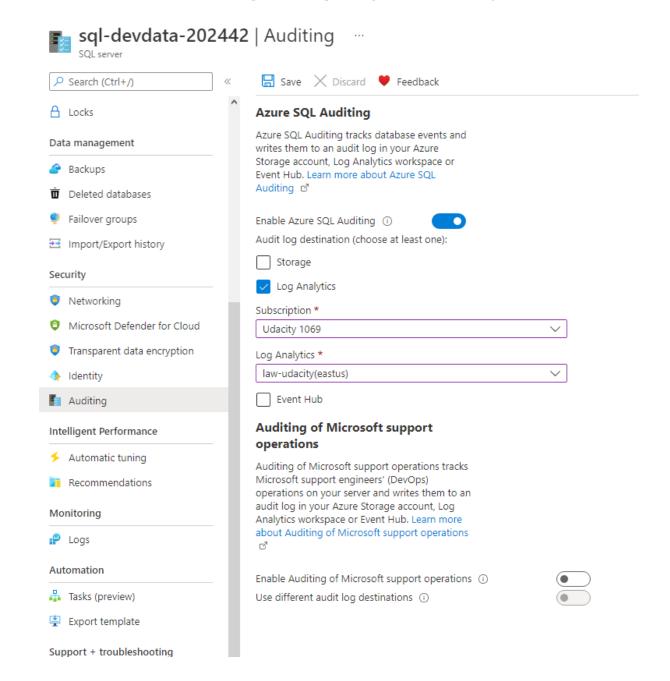
The other 2 top remidations are "Apply system updates" and "Remidate vulnerabilities". Both of them have a score of 0/6.



We should install the log analytics agent on all of our Vms. And we should install vulnerability assessment tools on our VMs.

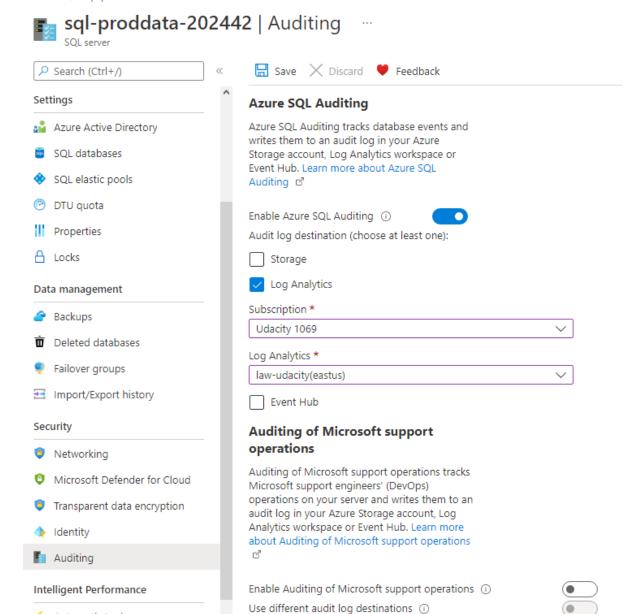
Monitoring

1. Proof of Azure SQL auditing with Log analytics (devdata, proddata)

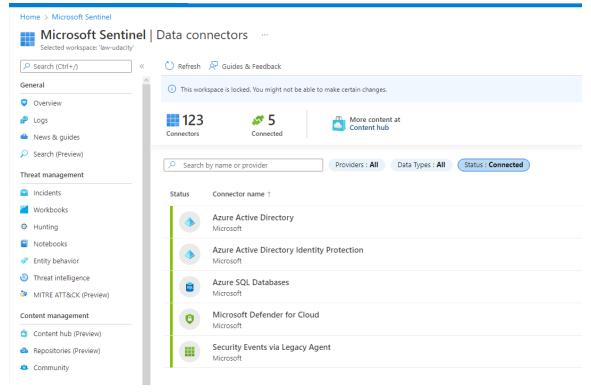


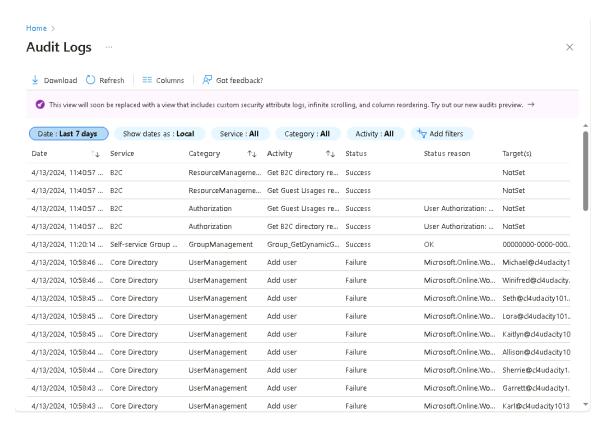
Home > sql-proddata-202442

Automatic tuning



2. Proof of Sentinel connectors (2+)





- 1. Login Log: The login log records information when a user logs into a system or application. It includes details such as the username, login timestamp, IP address, and whether the login attempt was successful or not. The login log helps in detecting unauthorized access attempts and troubleshooting authentication issues.
- 2. Access Log: The access log records information when a user accesses files, directories, or resources. It includes details like the username, access timestamp, and the location of the accessed file or resource. The access log helps in identifying unauthorized access attempts and permission-related issues.
- 3. Change Log: The change log records information about changes made to the system or application settings and configurations. It includes details such as the modified settings, the username of the user who made the change, and the timestamp of the change. The change log helps in identifying potential security issues and troubleshooting system-related issues.

Compliance

1. Proof of NIST SP 800-53 rev4 policy added

