

AZURE FRAUD PROTECTION OVERVIEW

Azure CoC



AGENDA



- Azure customers' security risks
- Azure Fraud protection measures in ACMP
- Azure Fraud monitoring and response
- Azure Fraud Protection Summary
- Azure Value-Add services campaign launch







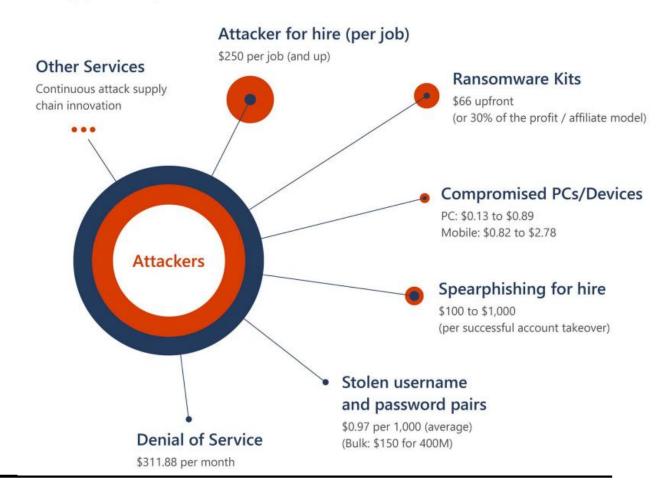
CUSTOMERS' RISKS

CYBERTHREAT: NOT IF, BUT WHEN?



- ▶ Identity and password/phishing attacks are cheap, and on the rise. Why would an attacker break in when they can log in?
- Distributed denial of service (DDoS) attacks are cheap for unprotected sites about \$300 USD/month.
- Cobaltstrike and ransomware kits are one of the many types of attack kits designed to enable low-skill attackers to perform more sophisticated attacks.

Average prices of cybercrime services for sale







CYBERSECURITY HYGIENE



The cybersecurity bell curve:





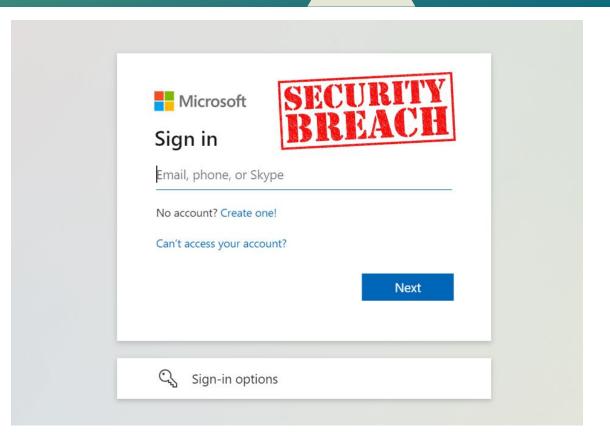


ATTACK EXAMPLE



- SMB customer
- Owner user account compromised (single) authentication, no MFA/CA)
- External users invited
- Provisioning NV-series VMs -> Crypto mining
- ► Azure Consumed revenue









RISKS



- Small customer = Big customer
- ► Azure consumption increase 1000X in days
- ▶ No credit from the Microsoft side
- End customer insolvency
- Risk to You (Partner) -> Risk to Provider
- ▶ 4 out of 5 customers have privileged accounts without MFA/CA enabled.







FRAUD PROTECTION MEASURES



Prevent

- Security defaults
- Azure Policies
- MFA validation to assign access rights during the Azure plan provisioning
- Microsoft Security report

Detect

- Consumption forecast, thresholds, and notifications
- Fraud monitoring

Respond

- Fraud response
- Automation to block or revert unauthorized services







MICROSOFT SECURITY DEFAULTS

MICROSOFT SECURITY DEFAULTS

- ▶ The goal is to ensure that all organizations have at least a basic
- Security defaults make it easier to help protect your organization preconfigured security settings:
 - Requiring all users to register for Azure AD Multi-Factor Authentication
 - Requiring administrators to do multi-factor authentication.
 - Requiring users to do multi-factor authentication when necessary.
 - Blocking legacy authentication protocols.
 - Protecting privileged activities like access to the Azure portal.







MICROSOFT SECURITY DEFAULTS



Who's it for?

- Organizations who want to increase their security posture, but don't know how or where to start.
- Organizations using the free tier of Azure Active Directory licensing.

Who should use Conditional Access?

- ▶ If you're an organization currently using Conditional Access policies, security defaults are probably not right for you.
- ▶ If your organization has complex security requirements, you should consider Azure Active Directory Premium licenses and Conditional Access.

Enabling security defaults

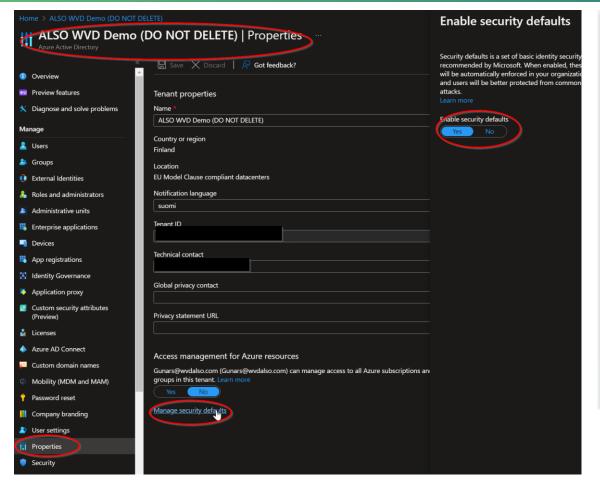
▶ If your tenant was created on or after October 22, 2019, security defaults may be enabled in your tenant. To protect all of our users, security defaults are being rolled out to all new tenants at creation.



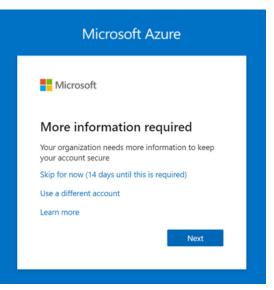


AZURE SECURITY DEFAULTS















AZURE POLICIES

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- Preventive measures for deploying high-cost Virtual Machines:
 - Prevent deployment of Standard_N GPU family of virtual machines
 - Prevent deployment of Standard_H family of virtual machines
 - Prevent deployment of Spot virtual machines
 - Prevent deployment of Azure batch accounts
 - Prevent deployment of new Virtual machine scale sets
- Deployed in a way to prevent exceptions from compromised global admin accounts
- Deployed for all (existing and new) Azure Plan subscriptions
- Will not stop or interfere with existing virtual machines in the subscription
- Timed exceptions for the deployment of new virtual machines
- ▶ Timed exceptions will be initiated from ACMP (UI or API) with full logging





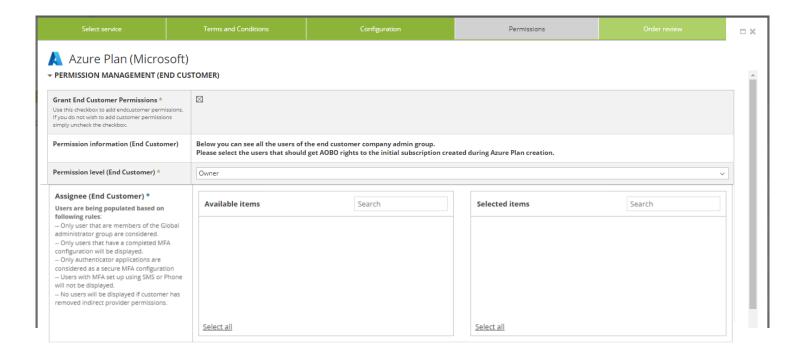




MFA VALIDATION

MFA VALIDATION

- Prevent granting access rights to users without MFA enabled
- We prevent Azure provisioning if we can't check MFA statuses.









MICROSOFT SECURITY REPORT

MICROSOFT SECURITY REPORT



- Partner-level report in ACMP
- Overview of MFA and security score on partner level
- MFA and security score details on the customer level
- Updated on a scheduled basis (3 times per week)





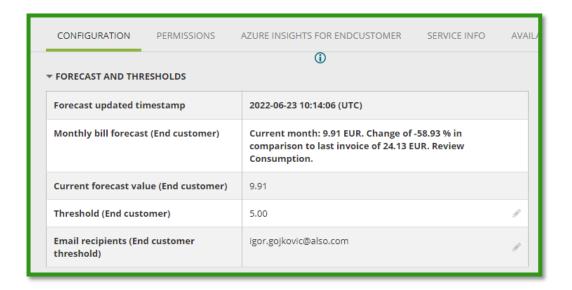




AZURE CONSUMPTION FORECAST AND THRESHOLD

THRESHOLDS, FORECAST, AND NOTIFICATIONS

- View a monthly forecast indicating the consumption trend for your Azure Plan subscription
- Create a threshold limit that triggers an email notification, if predicted to be exceeded
- Updated four times a day





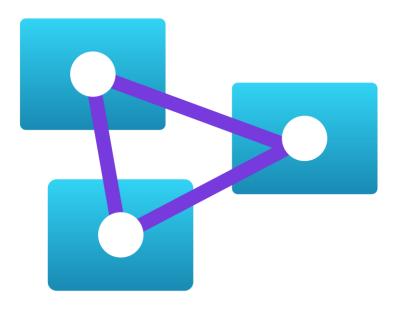




FRAUD MONITORING AND RESPONSE

FRAUD MONITORING AND RESPONSE

- Detect events inside Azure subscriptions
- Analyse events and resources
- Display fraud monitoring results in a dashboard
- ► Flagged fraud events are mitigated by Also Azure support team involving Microsoft, the partner, and the customer







FRAUD MONITORING AND RESPONSE









ALSO CLOUD MARKETPLACE FORECAST ALERT

YOUR SET AZURE PLAN THRESHOLD HAS BEEN EXCEEDED. THIS IS NOT AN INVOICE. BELOW IS A SUMMARY OF CURRENT CONSUMPTION. EXPECTED TOTAL BY END OF MONTH IS ON THE BOTTOM OF PAGE.

Azure subscription	Azure subscription id	Service Name	Resource Type	End Customer Total
Azure_		Visual Studio Subscription	marketplace/account	37878.08
Azure_		SQL Database	microsoft.sql/servers	310.09
Azure_		Log Analytics	microsoft.insights/components	0
Azure_		Advanced Data Security	microsoft.sql/servers	0
Azure_		Bandwidth	microsoft.storage/storageaccounts	0
Azure_		Storage	microsoft.storage/storageaccounts	0
Azure_		Azure App Service	microsoft.web/sites	0
Azure_		Bandwidth	microsoft.web/sites	0
Azure		Functions	microsoft.web/sites	0

Current endcustomer charges: 38188.17 NOK Forecasted endcustomer total: 38206.45 NOK







QUESTIONS & ANSWERS

LINKS



Strengthen cybersecurity with a free subscription to Azure AD Premium Plan 2 https://docs.microsoft.com/en-us/partner-center/announcements/2021-october#12

Introduction to granular delegated admin privileges (GDAP) https://docs.microsoft.com/en-us/partner-center/gdap-introduction

Security defaults in Azure AD

https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/concept-fundamentals-security-defaults

Thresholds on azure plan subscriptions in ACMP https://support.ccpaas.net/display/ACA/Create+usage+threshold+for+Azure+Plan

How to manage Azure policies in ACMP: https://support.ccpaas.net/display/ACA/Manage+Azure+fraud+policy

Microsoft Security Report in ACMP:

https://support.comage.not/display/ACA/Micro

https://support.ccpaas.net/display/ACA/Microsoft+Security+Report

Application and service principal objects in Azure Active Directory https://learn.microsoft.com/en-us/azure/active-directory/develop/app-objects-and-service-principals





