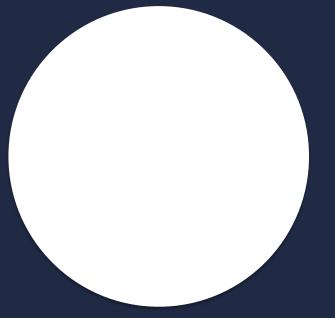
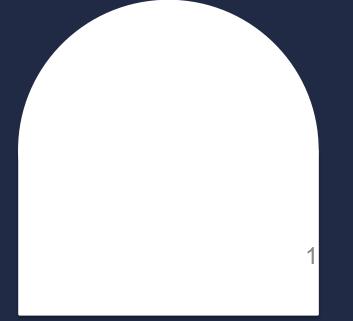
SIO

An Indra company

SIA Cloud Security Posture Assessement



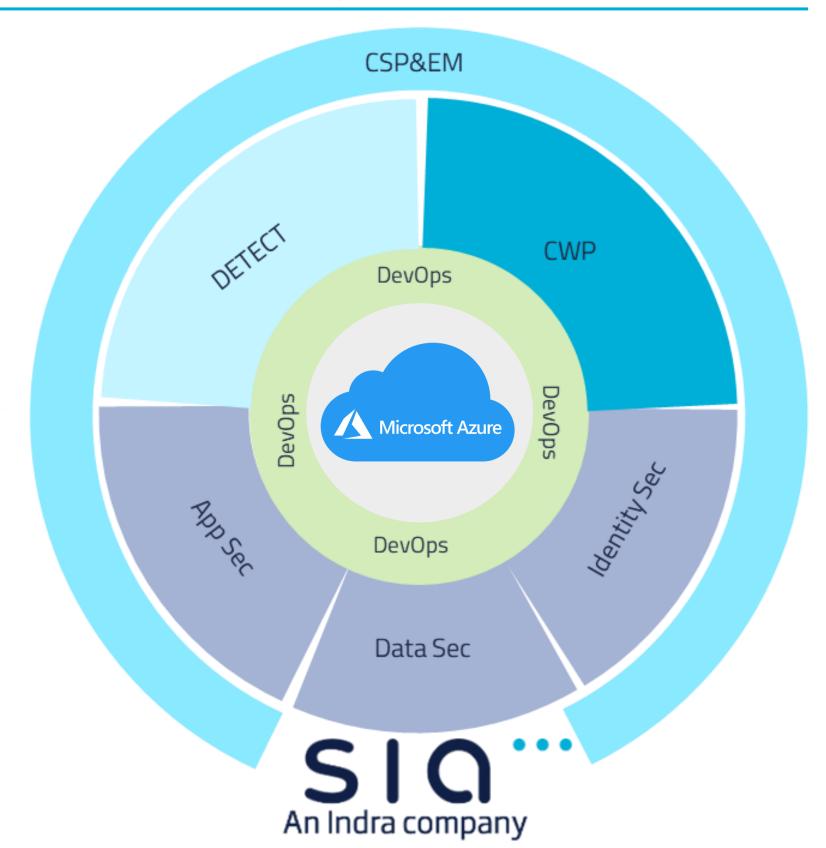




From a technological point of view, the Cloud Security Reference Architecture must implement CSP native Security controls integrated with specific solutions and services

SIA Cloud Security Reference Architecture

... to implement Security over the "building"...



...and over the "content"...
in an agile way

SIA Cloud Security Posture Assessment (CSPA) – Microsoft Azure

SIA helps you to identify the Security Posture of your Azure environments and to design a full customized Security Action Plan, both technical and strategic, which will assure a high Security Posture Level against threats. Whether your organization is still in the Cloud migration process or there are already services in production, SIA CSPA will establish a Security program that allows you to start implementing robust Security mechanisms and maintain that high Security Posture Level.

During this assessment, SIA Cloud Security Architects will analyze your Cloud Adoption Strategy in order to align and prioritize all the recommendations that the Security Action Plan will incluide. We will take interviews with key stakeholders (Business, IT and Security) with the main aim of deeply understand the objectives, expectatives and concerns of your journey to the Cloud. This Strategic Stage of the assessment will follow, as framework baseline, the Well-Architected Framework (WAF) of Microsoft Azure, adapted to you and from the SIA expertise perspective. Some of the key points that we address here are:

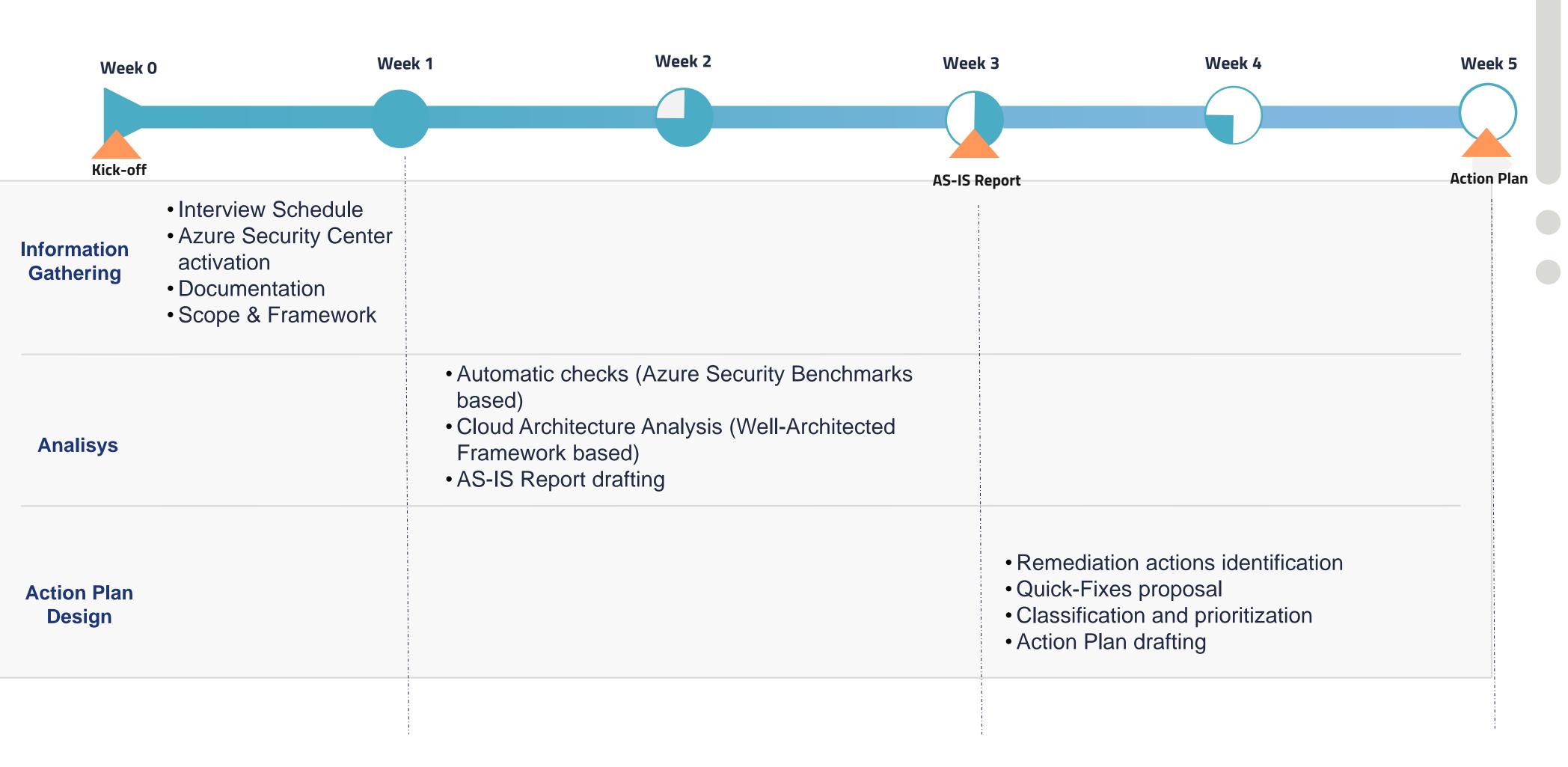
- Workloads & App/API protection
- DevSecOps
- Identity Sec
- Data Sec

Apart from that, SIA Cloud Security Specialists will work with your Cloud Admins on identifying technical misconfigurations present on the environments, which lead to security weaknesses that could be leveraged by attackers to compromise data and services hosted on your Azure environments. This analysis will be executed by activating and configuring CSPM module of Azure Security Center for you, that will allow us to identify any configuration that is not aligned with the Azure Security Benchmarks. The key point here is to be able to interpret and prioritize all techincal remediations detected, in order to propose a customized mitigation plan that can be executed in an agile and automated way.

SIA CSPA includes:

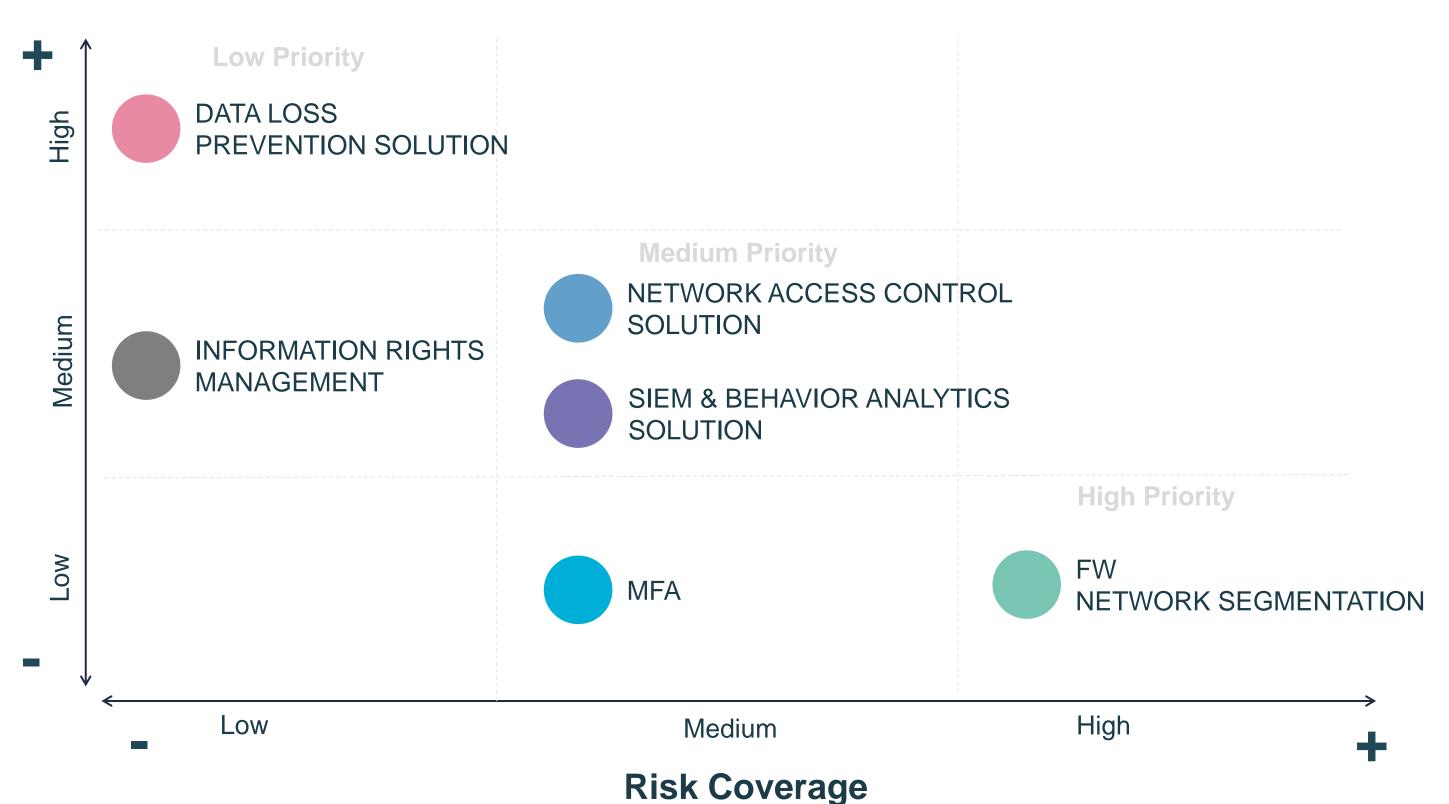
- Azure Security Center Activation
- Information Gathering (interviews, automated checks)
- Information Analysis
- AS-IS Report
- Action Plan report + Quick Fixes

SIA CSPA Plan



Strategic Solution Matrix - Example

Implementation effort



Risk coverage: measures the level of threat covered given three possible levels:

- Low
- Medium
- High

Effort required: measures the effort required to implement the solution regarding difficulty of deployment and cost. Three possible values are given:

- Low
- Medium
- High

Strategic Solution Detail - Example

External Deployment Product Name Usability impact Maturity Cost Scoring difficulty Reference Microsoft Azure MFA 18 / 25 Kind of solution High deployment High external Advanced product Medium impact difficulty references Strong 2FA/MFA

Product Description

Azure MFA is the Multi-factor authentication tool included in Azure Active Directory Premium suite.

Azure MFA conditional access is based on context of users, locations, devices, data and applications.

Technical Features

- Adaptive access policies can assess a number of risk signals (user, group, device, network and location information) and apply a risk-mitigating action.
- Azure MFA Server, a software-delivered authentication solution, supports hardware OTP tokens and provides an LDAP interface allowing applications that already use LDAP to easily enable MFA

Covered Attack Vectors

Covers 2 attack vectors from 1 categories (mobile hardening):

- Impersonation of the 2FA tool.
- Interception of the second authentication factor.

Conclusions



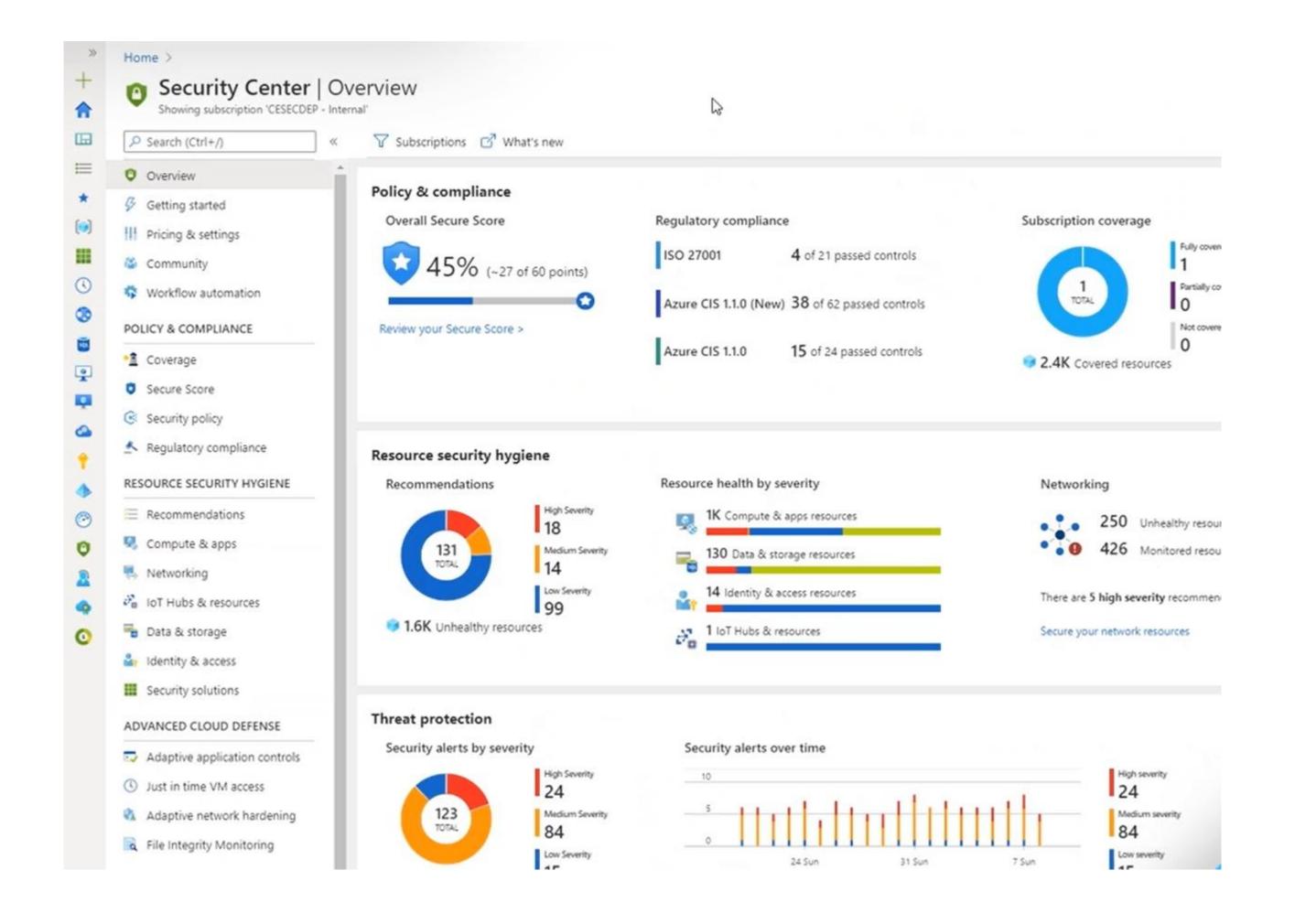
It is very user friendly

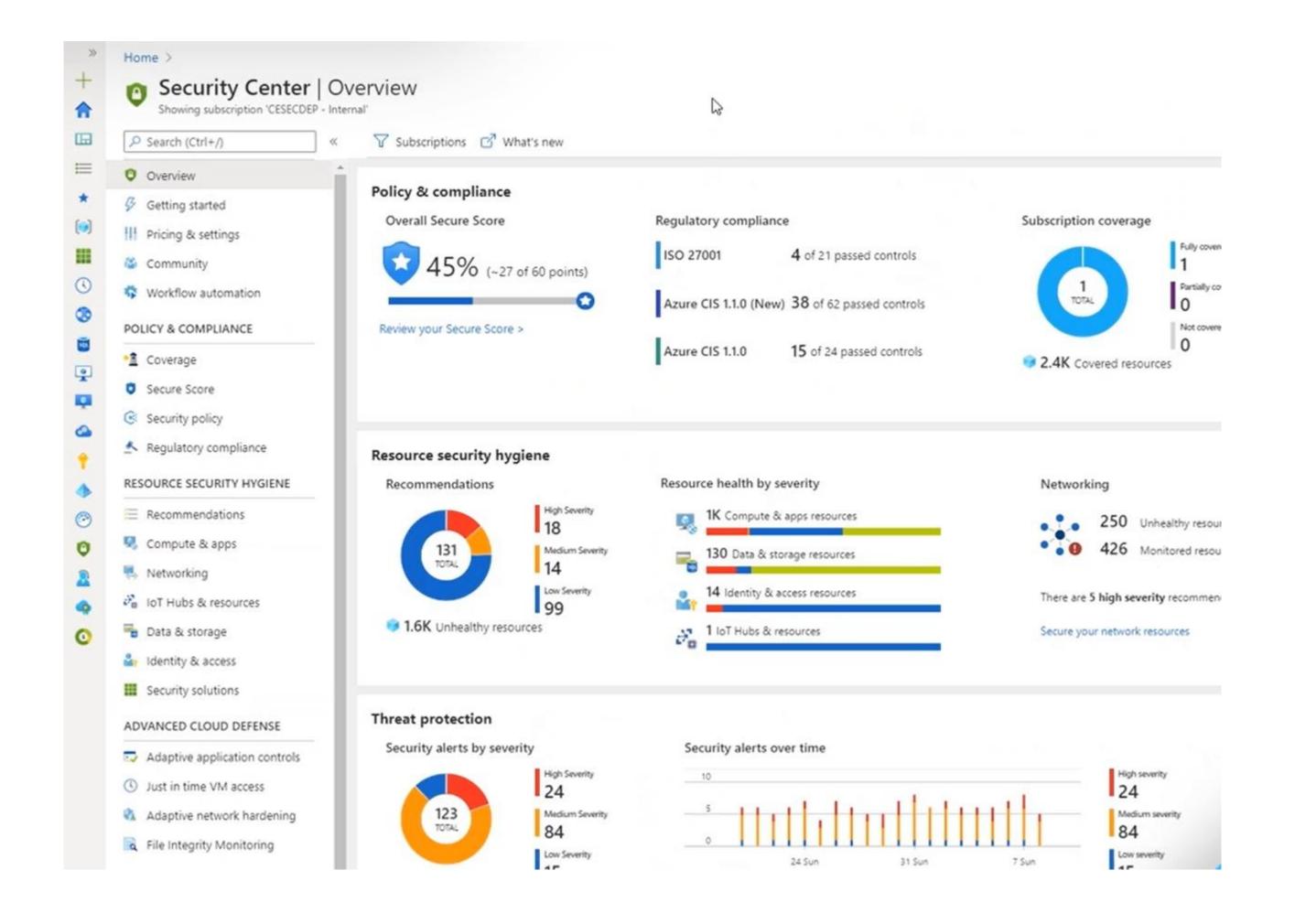


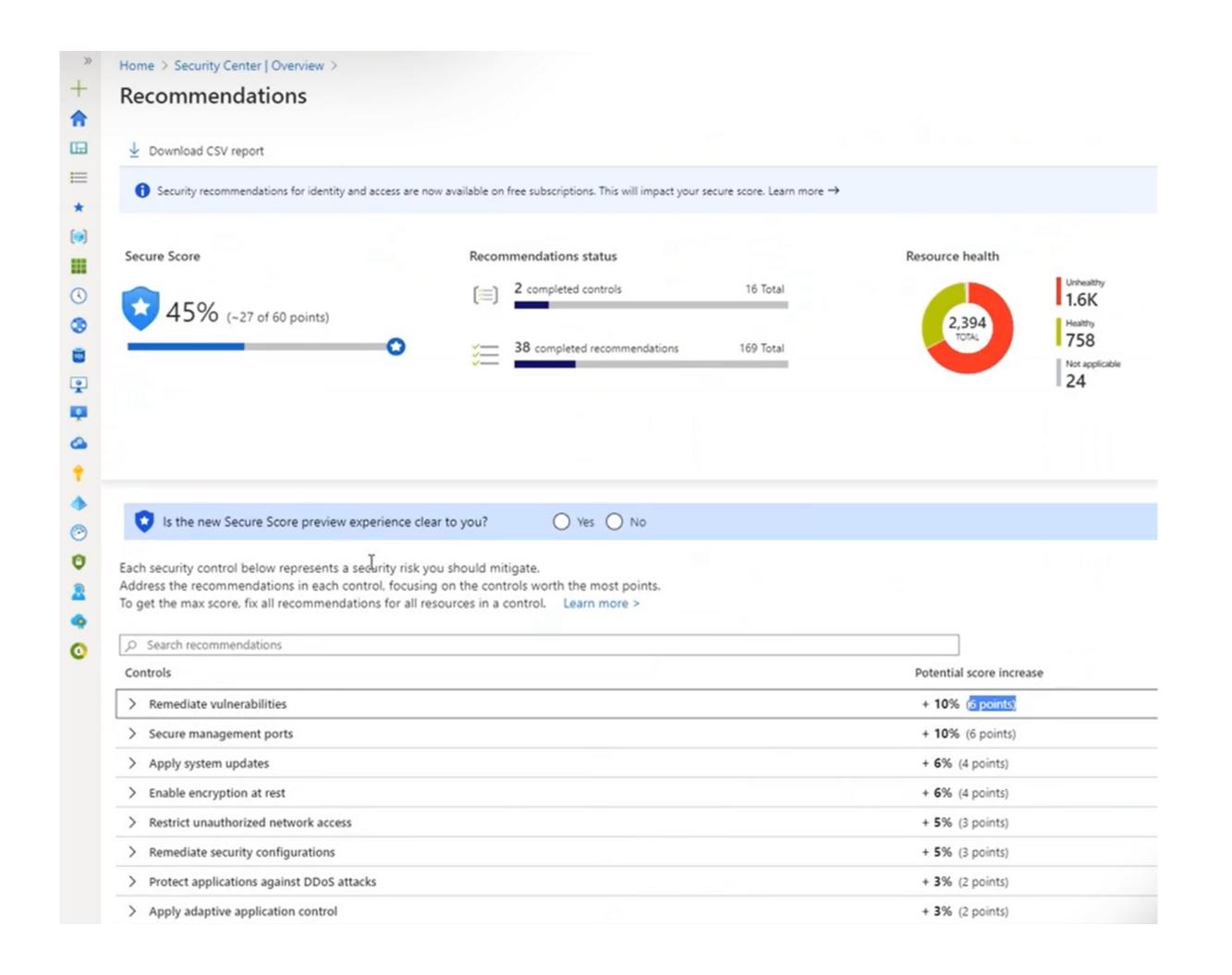
Azure conditional access does not provide sufficient granularity to enforce specific authentication methods used to mitigate risk.

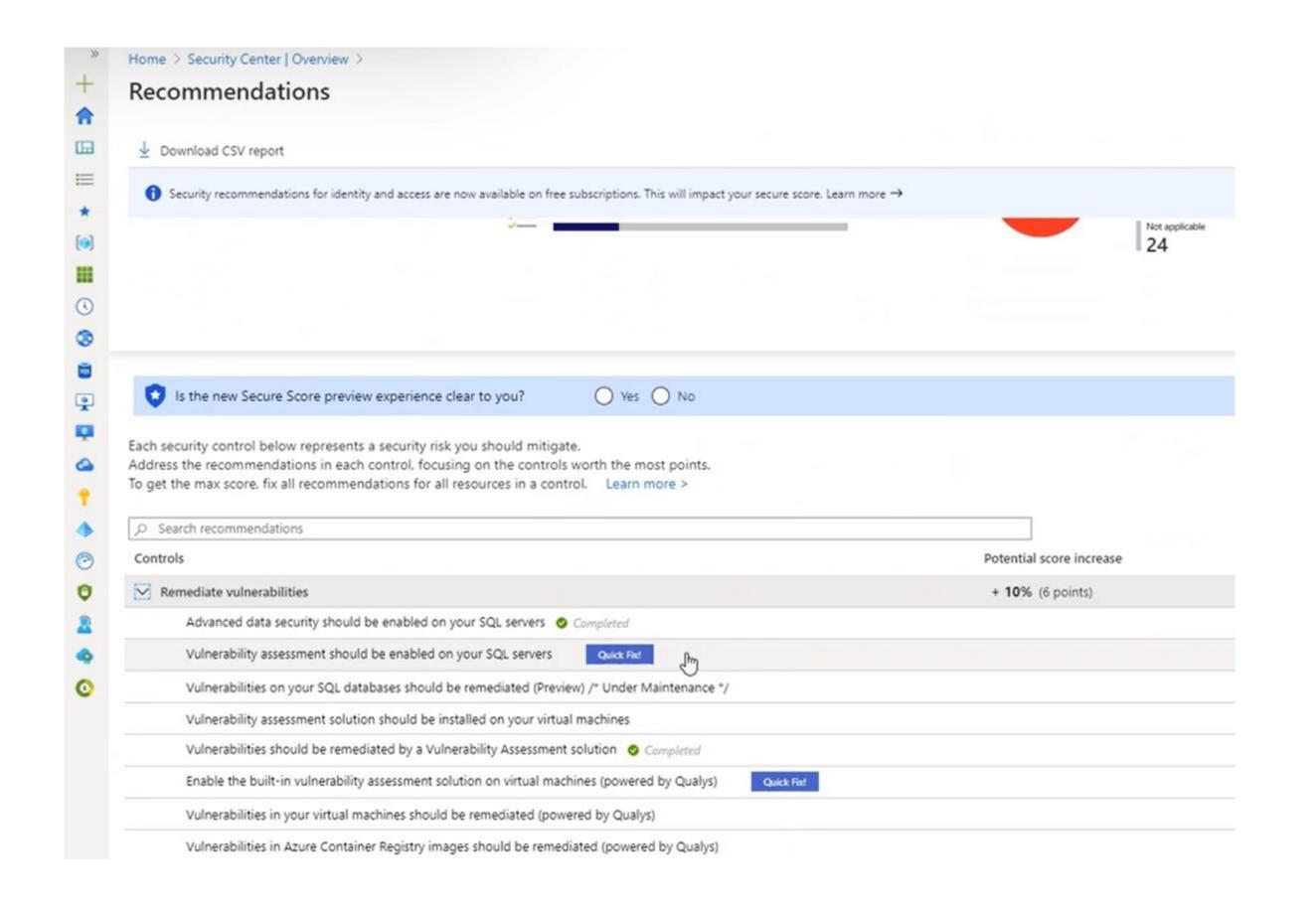
Initial deployment is complicated.

Azure MFA is a good product for organizations that have or want Azure AD and not require granularity on authentication methods









BEYOND CYBERSECURITY

Thank you

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