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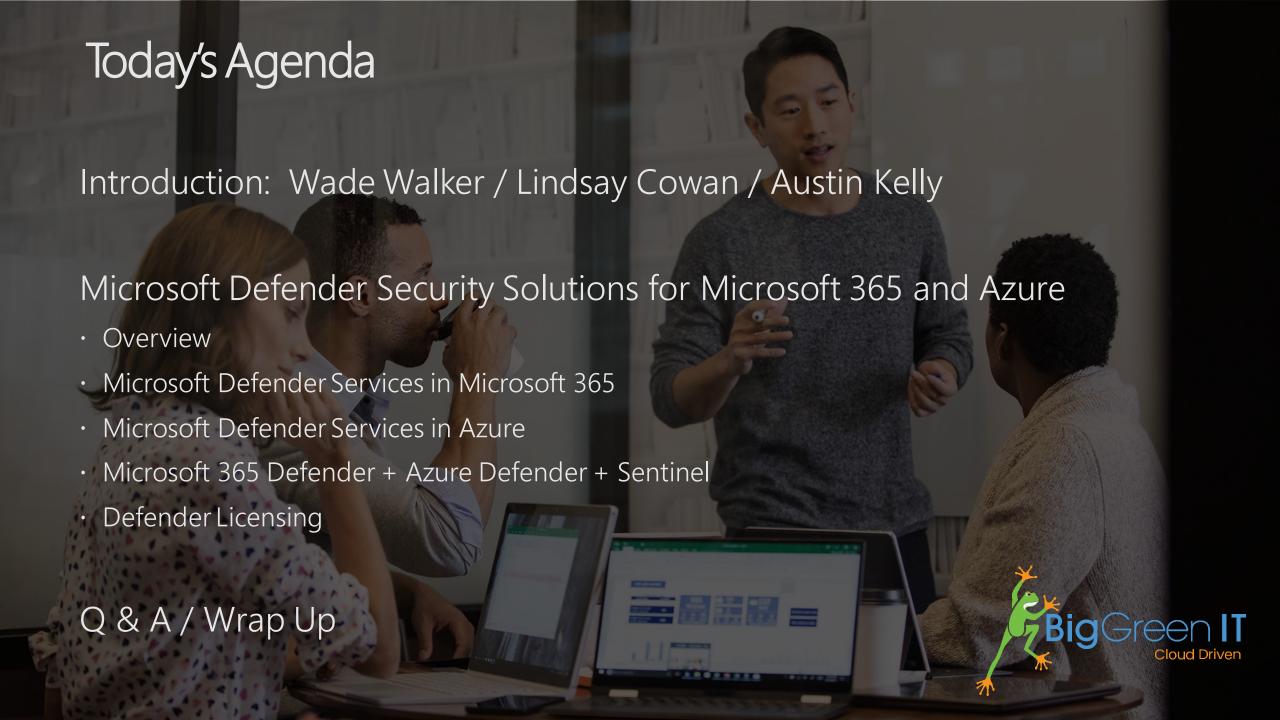
Austin Kelly Account Manager <u>austink@biggreenit.com</u>



Microsoft Partner



Gold Data Analytics
Gold Data Platform
Gold Cloud Platform
Gold Cloud Productivity
Gold Windows and Devices



Connecting Enterprise Businesses to the Microsoft Cloud Ecosystem

- Business is moving to the Cloud at a rapid pace
- We help companies develop a comprehensive Cloud strategy that delivers the right technology at the right time
- Build upon the Microsoft Cloud platform
- Leverage our expertise for Microsoft Cloud consulting, licensing, implementation and support
- Together we can help you develop a modern infrastructure with an ecosystem of products and services that are:
 - Secure
 - Built to work together
 - Supported
 - Able to grow and pivot as business needs change







Azure regions

Azure is "The World's Computer"

Azure has more global regions than any other cloud provider—offering the scale needed to bring applications closer to users around the world, preserving data residency, and offering comprehensive compliance and resiliency options for customers.

55 regions worldwide

140 available in 140 countries



https://azure.microsoft.com/en-us/global-infrastructure/regions/

Azure / Microsoft 365: Trusted

















Self-Assessment





CSASTAR Attestation

Regional

































Certification





Argentina PDPA





China DJCP



China **TRUCS**

Singapore Australia MTCS

IRAP/CCSL

New Zealand GCIO

Ja pan My Number Act

ENISA IAF

Ja pan CS Mark Gold

Spain ENS

Spain DPA

India MeitY

Canada Privacy Laws

Privacy Shield

Germany IT Grundschutz workbook

Industry







CDSA



























PCI DSS Level 1



MPAA

FACTUK

Shared Assessments

FISC Japan

HIPAA/ **HITECH Act** **HITRUST**

GxP 21 CFR Part 11 MARS-E

IG Toolkit UK

GLBA

FFIEC

Us Gov



JABP-ATO



High





















M oderate

JABP-ATO

DoD DISA SRG Level 2

SRG Level 4

DoD DISA SRG Level 5

SP 800-171

FIPS 140-2

Section 508 VPAT

CJIS

IRS 1075





Five Best Practices for Cloud Security



Cloud security is a fundamentally new landscape for many companies.

While many of the security principles remain the same as on-premises, the implementation is often very different. This overview provides a snapshot of five best practices for cloud security: identity and access control, security posture management, apps and data security, threat protection, and network security.







Institute multifactor authentication

Provide another layer of security by requiring two or more of the following authentication methods:

- Something you know (a password)
- Something you have (a trusted device that is not easily duplicated, like a phone)
- Something you are (biometrics)

Take advantage of conditional access

Master the balance between security and productivity by factoring how a resource is accessed into an access control decision. Implement automated access control decisions for accessing your cloud apps that are based on conditions.

Strengthen access control

Traditional security practices are not enough to defend against modern security attacks. Therefore, the modern security practice is to "assume breach": protect as though the attacker has breached the network perimeter. Today, users work from many locations with multiple devices and apps. The only constant is user identity, which is why it is the new



Operate in a zero-trust model

Verify the identity of everything and anything trying to authenticate or connect before granting access.



Improve your current posture

Use a tool like <u>Secure Score</u> in <u>Azure</u> <u>Security Center</u> to understand and improve your security posture by implementing best practices.



Educate stakeholders

Share progress on your secure score with stakeholders to demonstrate the value that you are providing to the organization as you improve organizational security.



Collaborate with your DevOps team on policies

To get out of reactive mode, you must work with your DevOps teams up front to apply key security policies at the beginning of the engineering cycle as secure DevOps.



Improve security posture

With more and more recommendations and security vulnerabilities identified, it is harder to triage and prioritize response. Make sure you have the tools you need to assess your current environments and assets and identify potential security issues.







Secure apps and data

Protect data, apps, and infrastructure through a layered, defense-in-depth strategy across identity, data, hosts, and networks.



Encryption

Encrypt data at rest and in transit. Consider encrypting data at use with confidential computing technologies.

Follow security best practices

Ensure your open source dependencies do not have vulnerabilities. Additionally, train your developers in security best practices such as Security Development Lifecycle (SDL).

Share the responsibility

When a company operates primarily on premises, it owns the whole stack and is responsible for its own security. Depending on how you use the cloud, your responsibilities change, with some responsibilities moving to your cloud provider.

- laaS: for applications running in virtual machines, more of the burden is on the customer to ensure that both the application and OS are secure.
- PaaS: as you move to cloud-native PaaS, cloud providers like Microsoft will take more of the security responsibility at the OS level itself.
- SaaS: at the SaaS level, more responsibility shifts away from the customer. See the <u>shared responsibility model</u>.



Enable detection for all resource types

Ensure threat detection is enabled for virtual machines, databases, storage, and IoT. Azure Security Center has built-in threat detection that supports all Azure resource types.



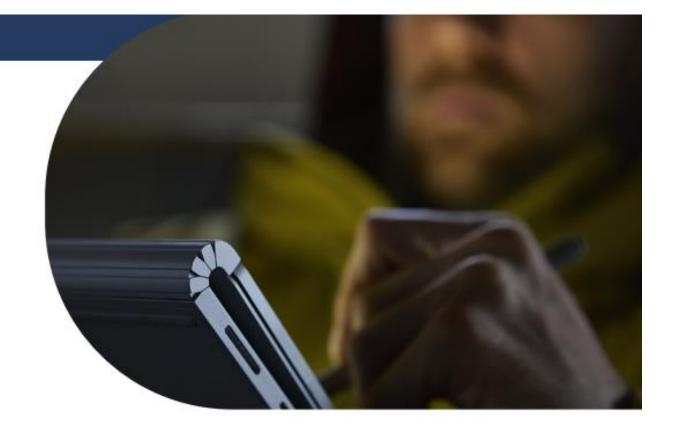
Integrate threat intelligence

Use a cloud provider that integrates threat intelligence, providing the necessary context, relevance, and prioritization for you to make faster, better, and more proactive decisions.



Modernize your security information and event management (SIEM)

Consider a <u>cloud-native SIEM</u> that scales with your needs, uses AI to reduce noise and requires no infrastructure.



Mitigate threats

Operational security posture—protect, detect, and respond—should be informed by unparalleled security intelligence to identify rapidly evolving threats early so you can respond quickly.





We're in a time of transformation for network security. As the landscape changes, your security solutions must meet the challenges of the evolving threat landscape and make it more difficult for attackers to exploit networks.



Keep strong firewall protection

Setting up your firewall is still important, even with identity and access management. Controls need to be in place to protect the perimeter, detect hostile activity, and build your response. A web application firewall (WAF) protects web apps from common exploits like SQL injection and cross-site scripting.



Enable Distributed Denial of Service (DDoS) Protection

Protect web assets and networks from malicious traffic targeting application and network layers, to maintain availability and performance, while containing operating costs.



Create a microsegmented network

A flat network makes it easier for attackers to move laterally. Familiarize yourself with concepts like virtual networking, subnet provisioning, and IP addressing. Use micro-segmentation, and embrace a whole new concept of micro perimeters to support zero trust networking.

Microsoft Defender Services in Microsoft 365

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Microsoft 365 Defender

Prevent and detect attacks across your identities, endpoints, apps, email, data, and cloud apps with XDR capabilities. Investigate and respond to attacks with out-of-the-box, best-in-class protection. Hunt for threats and easily coordinate your response from a single dashboard.



Stop attacks before they happen Reduce your attack surface and eliminate persistent threats.

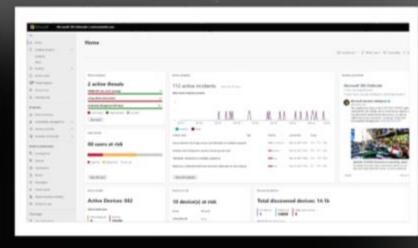


Detect and automate across domains Integrate threat detection data for rapid and complete response.



Hunt across all your data Leverage time saved to apply your unique expertise.

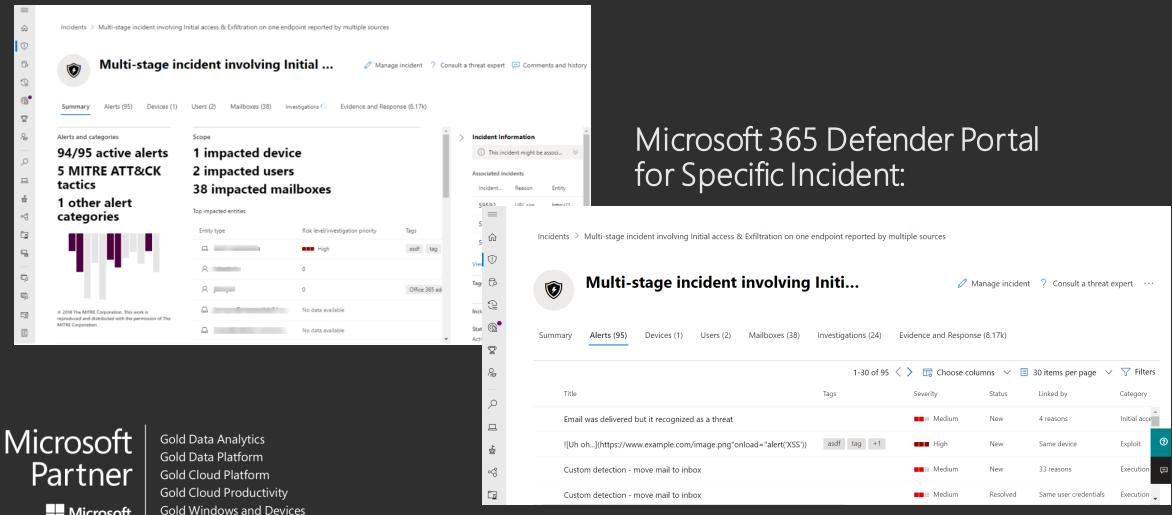




Microsoft 365 Defender Portal for All Products:

-- Microsoft





Microsoft 365 Defender Services/Licensing

- Microsoft Defender for Business
- Microsoft Defender for Endpoint Plan 1 / Plan 2
 *Defender Vulnerability Management (add on to Plan 2)
- Microsoft Defender for Endpoint Servers
- Microsoft Defender for Office 365 Plan 1 / Plan 2
- Microsoft Defender for Identity
- Microsoft Defender for Cloud Apps

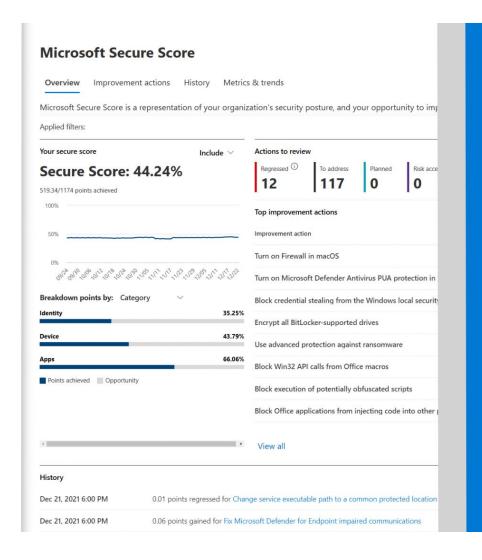






Microsoft 365 Defender

Microsoft Secure Score



Secure Score helps organizations:

- Report on the current state of the organization's security posture.
- Improve their security posture by providing discoverability, visibility, guidance, and control.
- Compare with benchmarks and establish key performance indicators (KPIs).

Microsoft Defender Services in Azure

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Microsoft Defender for Cloud / Azure Defender

Microsoft Defender for Cloud

Protect your multi-cloud and hybrid cloud workloads with built-in XDR capabilities. Secure your servers, storage, databases, containers, and more. Focus on what matters most with prioritized alerts.



Assess and strengthen the security configuration of your cloud resources.



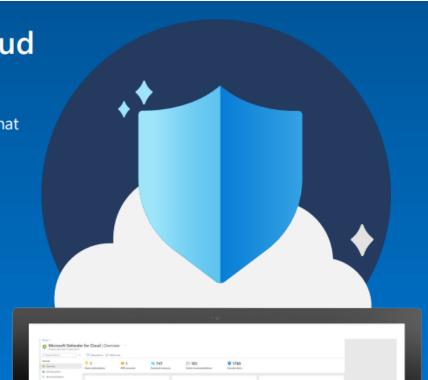
Manage compliance against critical industry and regulatory standards.

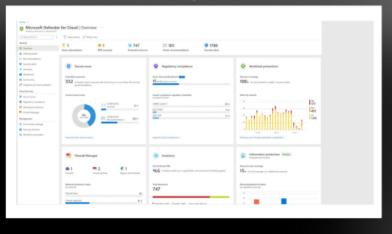


Enable threat protection for workloads running in Azure, AWS, Google Cloud Platform, & on premises.



Detect vulnerabilities to protect your multicloud and hybrid workloads against malicious attacks.





Azure Defender Services

Microsoft Defender for Cloud / Azure Defender

- Microsoft Defender for App Service
- Microsoft Defender for Azure Cosmos DB
- Microsoft Defender for Containers / Container Registries
- Microsoft Defender for DNS
- Microsoft Defender for IoT (Monitored Devices, Agentless OT)
- Microsoft Defender for Key Vault
- Microsoft Defender for Kubernetes
- Microsoft Defender for MariaDB

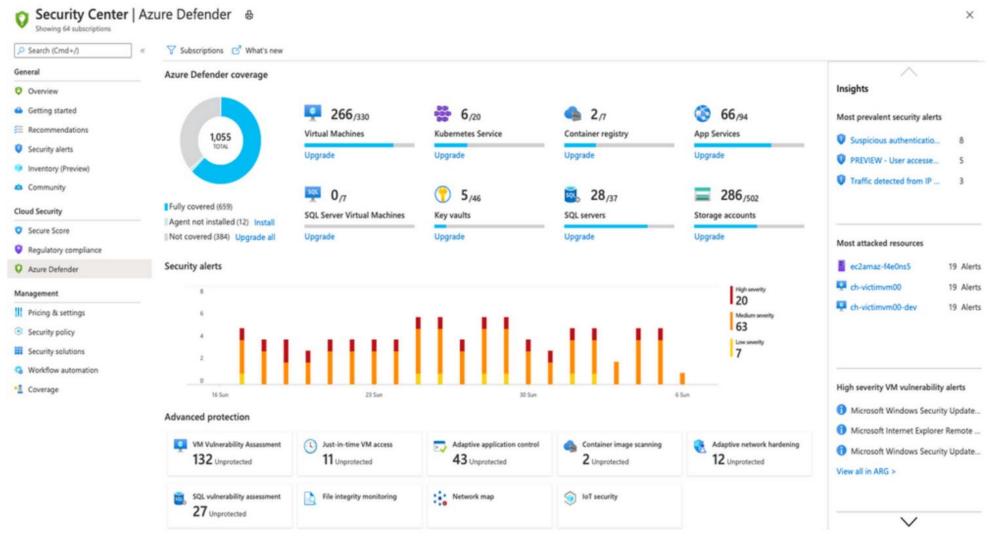
Microsoft Defender for Cloud / Azure Defender

- Microsoft Defender for MySQL
- Microsoft Defender for PostgreSQL
- Microsoft Defender for Azure Resource Manager (ARM)
- Microsoft Defender for Servers Plan 1 / Plan 2
- Microsoft Defender for SQL (On Azure / Outside Azure)
- Microsoft Defender for Storage
- Microsoft Defender Percentage Model
- Microsoft Defender External Attack Surface Management (EASM)

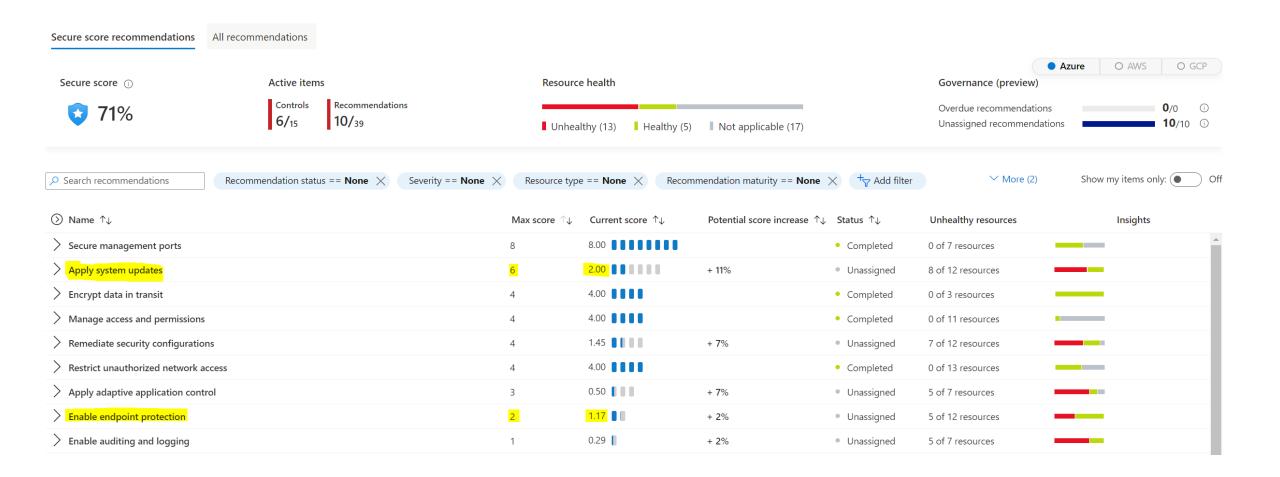




Azure Security Center



Azure Secure Score

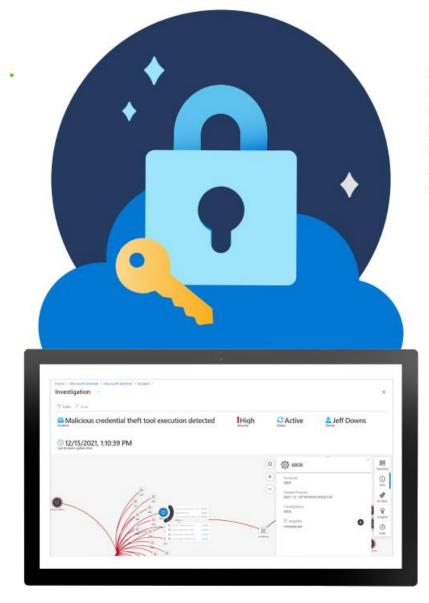


Microsoft Defender + Azure Defender + Sentinel





Azure Sentinel



Microsoft Sentinel

Get a bird's-eye view across the enterprise with the cloud-native security information and event management (SIEM) tool from Microsoft. Aggregate security data from virtually any source and apply AI to separate noise from legitimate events, correlate alerts across complex attack chains, and speed up threat response with built-in orchestration and automation.



Collect Data at cloud scale across all users, devices, application, and inftrastructure, both on-premises and in multiple clouds.



Detect previously uncovered threats and minimize false positives using analytics and unparalleled threat intelligence from Microsoft.



Investigate threats with AI and hunt suspicious activities at scale, tapping into decades of cybersecurity work at Microsoft.



Respond to incidents rapidly with built-in orchestration and automation of common tasks.



SIEM



Multi-cloud

Azure Sentinel



Cloud native, any data, any entity

Partnerships



Cloud native



Any data

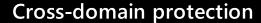


ΑI



Automation













Identities

Endpoints











Cloud Apps Docs

Azure Defender



Network







Server

Containers

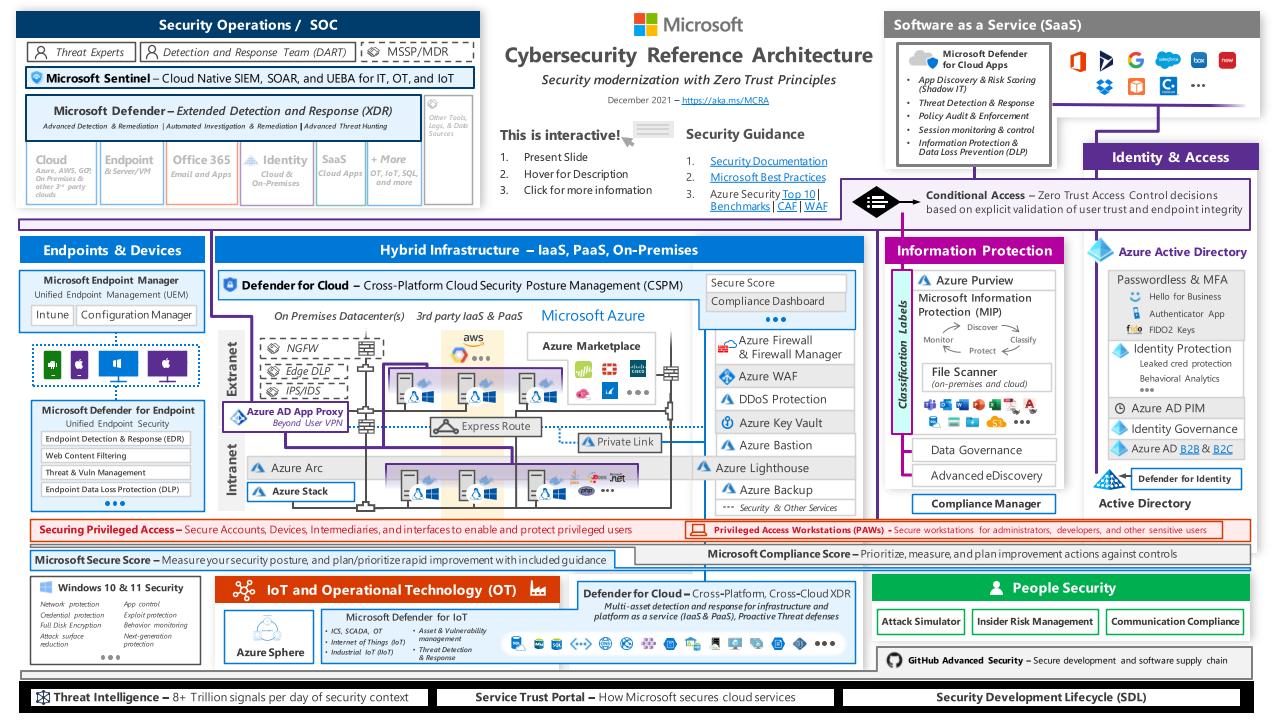




Azure App Services

Microsoft 365 Defender & **Azure Defender**





Next Steps

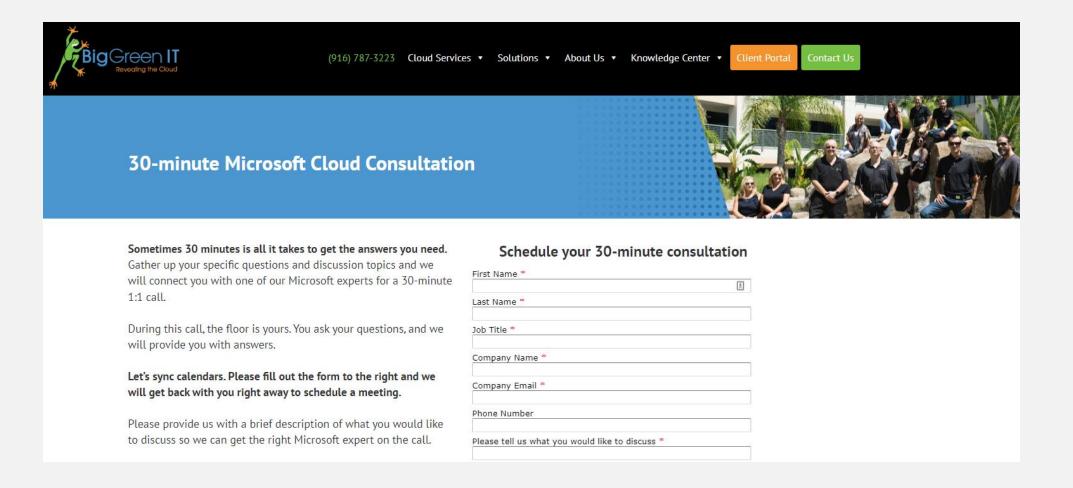




Cloud Consultation



Contact us for a free consultation



Secure Score / BGIT Support



Big Green IT M365 Support

Sometimes even the most experienced IT teams need help. Microsoft is continually making changes and improvements to Microsoft 365 products and services. This constant change makes it challenging for IT teams to keep up and can sometimes overwhelm your help desk.

Big Green IT is a Tier 1, direct Microsoft Gold partner. We offer a range of Microsoft 365 support service plans to meet the varying needs of our customers.



Big Green IT- Azure Support Plans

Sometimes even the most experienced IT teams need help. Microsoft is continually making changes and improvements to Azure products and services. This constant change makes it challenging for IT teams to keep up and can sometimes overwhelm your help desk.

Big Green IT is a Tier 1, direct Microsoft Gold partner. We offer a range of Azure support service plans to meet the varying needs of our customers.

Features	Standard	Most Popular Premium	Enterprise
Incident Support	Basic	Unlimited	Unlimited
Service Request	Basic	Unlimited	Unlimited
Response Times	4 Hours	2 Hours	1 Hour
Big Green IT Service Management Portal	•	•	•
Big Green Knowledge Base	•	•	•
Big Green License Management Portal	•	•	•
Support Service Hours 1,2		2 Hours	4 Hours
Dedicated Account Manger ³		•	•
Microsoft 365 Critical Response Team		•	•
24 x 7 Support Access			•
Big Green M365 Training Portal			•

	Standard	Most Popular Standard+	Premium	Enterprise	Enterprise+
Features	Less than \$5,000 monthly Azure Spend	Less than \$10,000 monthly Azure Spend	\$10,001-\$50,000 monthly Azure Spend	\$50,001-\$100,000 monthly Azure Spend	More than \$100,000 monthly Azure Spend
Incident Support	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Service Request	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Response Time with SLA	2 Hours	2 Hours	2 Hours	1 Hour	1 Hour
Big Green IT Support Portal	•	•	•	•	•
Big Green IT Knowledge Base	•	•	•	•	•
Big Green IT License Management Portal	•	•	•	•	•
Support Service Hours ¹	1 Hour	2 Hours	2 Hours	4 Hours	8 Hours
Dedicated Account Manger ³		•	•	•	•
Microsoft Azure Problem Resolution Support	•	•	•	•	•
Microsoft Azure Critical Response Team		•	•	•	•
24 x 7 Support Access		•	•	•	•
Microsoft Advisory Services Access ²		•		•	•
Big Green IT Azure Cost Optimization		•	•	•	•
Microsoft Training Service Access ²		•	•	•	•

Relevant Links

Microsoft's Five Best Practices for Cloud Security: <u>Five Best Practices for Cloud Security | Microsoft</u> Microsoft Digital Defense Report (October 2021): <u>Microsoft Digital Defense Report OCTOBER 2021</u> Microsoft Security Best Practices: <u>Microsoft Security Best Practices | Microsoft Learn</u>

Microsoft Defender Product Family: <u>Microsoft Defender Product Family | Microsoft Security</u> Microsoft 365 Secure Score: <u>Microsoft Secure Score | Microsoft Learn</u> Microsoft 365 Defender Portal: <u>Microsoft 365 Defender portal | Microsoft Learn</u>

Microsoft Defender for Cloud: Microsoft Defender for Cloud - CSPM & CWPP | Microsoft Azure Microsoft Defender for Cloud Secure Score: Security posture for Microsoft Defender for Cloud | Microsoft Learn

Microsoft Cloud for Servers: <u>Integration with Microsoft Defender for Cloud | Microsoft Learn</u> Azure Sentinel: <u>Azure Sentinel – Cloud-native SIEM Solution | Microsoft Defender for Cloud | Microsoft Learn</u>





Questions?



- https://www.linkedin.com/in/waderwalker/
- https://www.linkedin.com/in/lindsaybcowan/
- https://www.linkedin.com/in/a1k/
- Big Green IT: Free Microsoft Security Consultation
- Microsoft Data Center Optimization (DCO)
- Microsoft Premier Support
- Microsoft Partner Advisory Council
- Microsoft Co-Partner / Partner-to-Partner
- International Association of Microsoft Channel Partners (IAMCP)



Microsoft Partner



Gold Data Analytics
Gold Data Platform
Gold Cloud Platform
Gold Cloud Productivity
Gold Windows and Devices