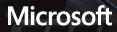
Security of and in the cloud Context, assurance, controls

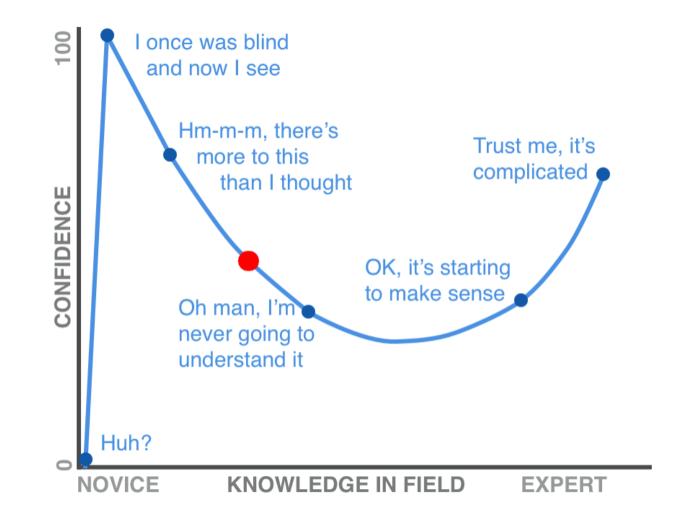


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Questions but beware the Dunning-Kruger effect



Digital Transformation Supported through technology & cloud

ome to the world's creates

Cybersecurity in digital transforming world

million

New pieces of malware created each day³

\$3trillion

Yearly estimated market value destroyed from cybercrime industry²

\$15m

Average annual amount companies paid as a result of cybercrime¹

By 2020, **25 Billion**

devices will be connected to the internet¹ By 2020, **75%** of infrastructure will be under third party control³

140+_{days}

Median # of days between infiltration and detection⁴

82%

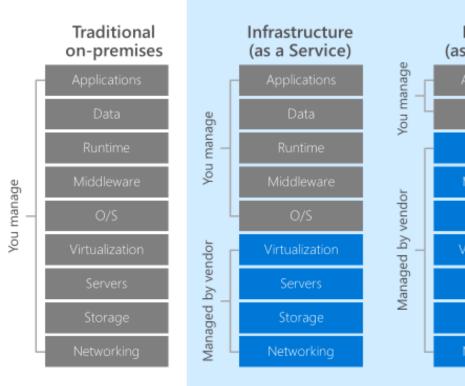
Of all companies expect to face a cyber attack⁵

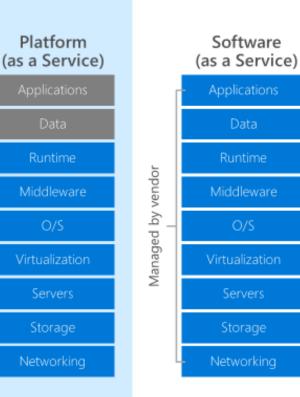






Cloud service models

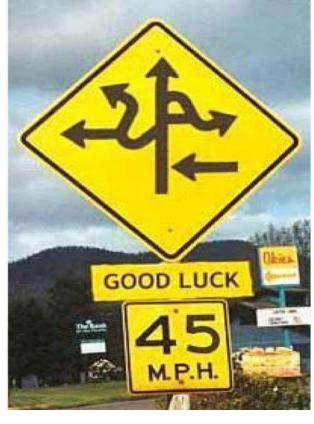






Fear is a poor advisor Dutch expression.







A balancing act

Opportunity and concerns A risk based approach

Agility Cost Transformation Modernization Privacy & control Security Availability Compliance Transparency

Information security & risk management guidelines

- ISO19086 Cloud Due Diligence
- Frameworks & standards & baselines (ISO 27002, NIST 800-53r4, CSA CCM)
- Risk templates (ISO27001, NIST 800-37, NIST CSF/RMF, ENISA)
- GDPR certifications & CoC's, EUCOC & CISPE?
- Data Processing Impact Analysis templates



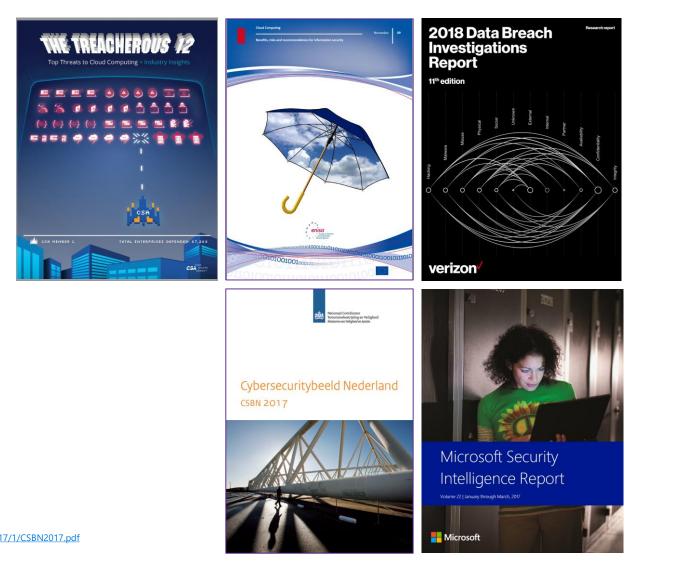
Insights into threats

Cloud Security Alliance, ENISA, threat intelligence (reports), ...

CSA Treacherous 12

- 1. Data Breaches
- 2. Weak Identity, Credential and Access Mgmt
- 3. Insecure APIs
- 4. System and Application Vulnerabilities
- 5. Account Hijacking
- 6. Malicious Insiders
- 7. Advanced Persistent Threats (APTs)
- 8. Data Loss
- 9. Insufficient Due Diligence
- 10. Abuse and Nefarious Use of Cloud Services
- 11. Denial of Service
- 12. Shared Technology Issues

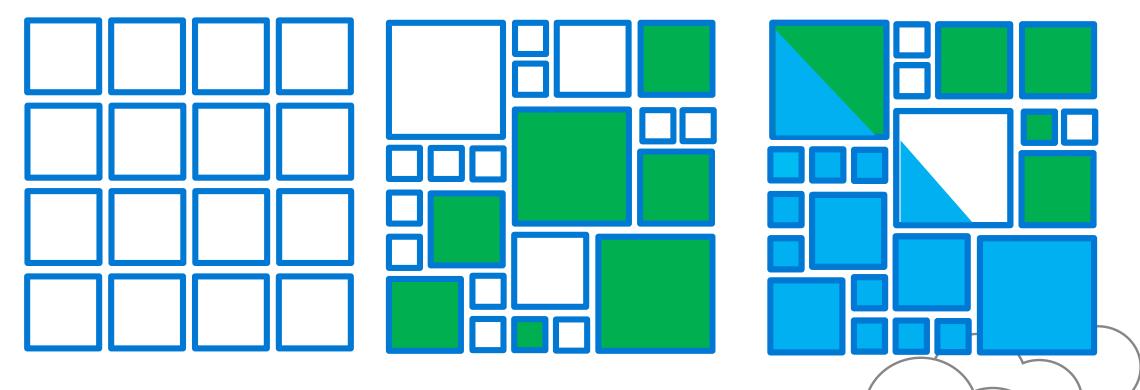
https://cloudsecurityalliance.org/download/top-threats-cloud-computing-plus-industry-insights/ https://www.enisa.europa.eu/publications/cloud-computing-risk-assessment https://www.microsoft.com/en-us/security/Intelligence-report https://www.verizonenterprise.com/resources/reports/rp_DBIR_2018_Report_en_xg.pdf https://www.ncsc.nl/binaries/content/documents/ncsc-nl/actueel/cybersecuritybeeld-nederland/cybersecuritybeeld-nederland-2017/1/CSBN2017.pdf



Changes in addressing risk based on NIST Cybersecurity Framework Different threats and vulnerabilities Identify Increased importance of Asset Management **Business Environment** Governance Risk Assessment Risk Management Strategy classification Replace with Changes in cloud native procedures solutions Protect Partly delegated to Information Protection Access Control Awareness and Training Protective Technology Data Security Maintenance cloud provider Processes and Procedures Partly Partly Changes in delegated delegated education to cloud to cloud Detect provider provider Security Continuous Monitoring Detection Processes Anomalies and Events Include Leverage intelligence from cloud-native outside world solutions Respond Response Planning Analysis Mitigation Communications Improvements Recover Changes to recovery procedures Recovery planning Improvements Communications

Cloud enabled security

Risk management and computing models



On premises

On premises Risk based

Cloud

A partnership... Doveryai, no proveryai

Your responsibility for security is based on the type of cloud service. The chart summarizes the balance of responsibility for both Microsoft and the customer.

Customer

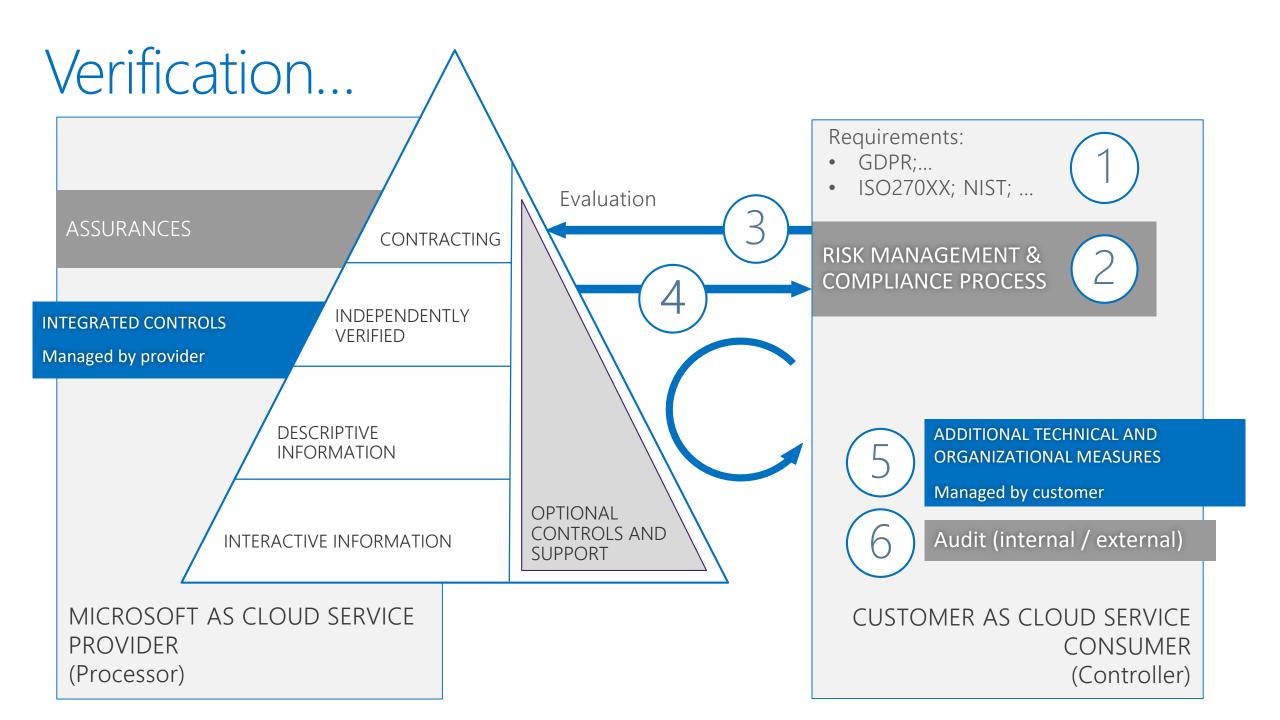
Customer and Microsoft

Microsoft

Cloud service provider, Microsoft operates Customer, Microsoft & Partner helps

Responsibility	SaaS	PaaS	laaS	On- Prem
Data governance and rights management				
Client endpoints				
Account and Access management				
Identity and directory infrastructure				
Application				
Network controls				
Operating system				
Physical hosts				
Physical network				
Physical datacenter				

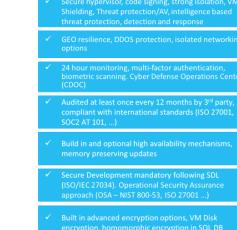
Trust = "hope with assurance" Van Dale (Dutch dictionary)



Cloud service provider assurance Microsoft managed controls



Security



Privacy Key principles from ISO27018

Cloud providers must:

lioud providers must.	
Not use data for advertising or marketing unless express consent is obtained	Be accountable to determine if customer data was impacted by a breach of information security
Be transparent about data location and how data is handled	Communicate to customers and regulators in the event of a breach
Provide customers with control over how their data is used	Have services independently audited for compliance with this standard
Part of Microsofts control framew	vork BSI certified under ISO 27001

Data Subject Data Processor Data Controller

ISO

Microsoft is committed to GDPR compliance across its cloud services and provides GDPR related assurances in its contractual commitments

Compliance Compliance coverage



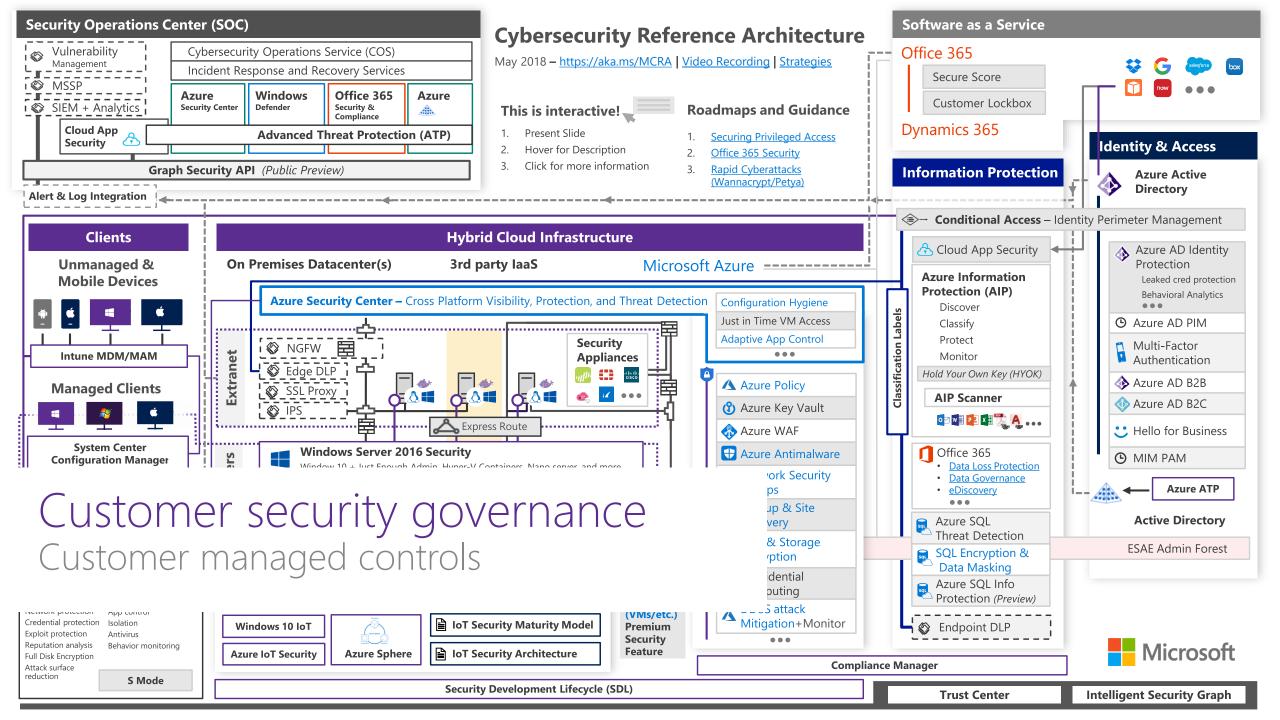
Transparency

You have visibility into our practices

Microsoft believes that you have a right to as much information as possible about how we handle your customer data in the cloud.

We provide you with clear explanations about where your data is stored and how we help secure it, as well as who can access it and under what circumstances. And you don't have to take our word for it. You can review a wide range of evidence, including independent audit reports and certifications for most of our business cloud services, to confirm that we meet the standards we set.

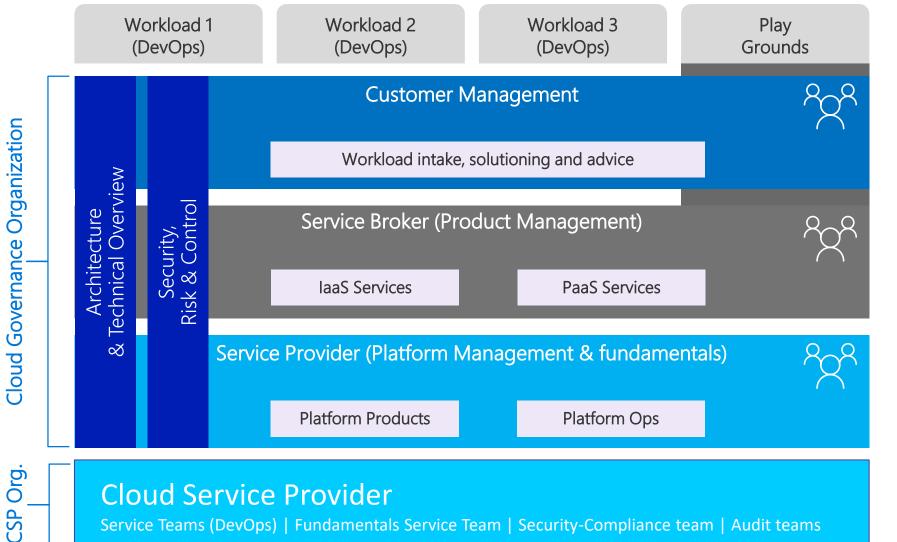




Cloud security operations Customer managed controls

From central control to agile security...

Organization Model managing customer controls facilitate protect, detect, respond conditions



Service Teams (DevOps) | Fundamentals Service Team | Security-Compliance team | Audit teams

- Provide the 1. foundation controls (network, Identity, crypto)
- Provide service 2. buildling blocks with preconfigured controls to DevOps teams. And enforce technical policies.
- Enable detection: 3. Instrument, Monitor and verify
- Regular risk 4. assessment (trust but verify)

Sample Technical Security controls connecting to a service security classification through risk assessment

Control routing path for traffic from Azure private to Azure public and Internet	
Automatically clean/purge playground environments	
Automated & enforced Update Management	
Azure provided Key Management	
Connectivity controls on public end-points	
Control network protocols from Internet to Azure Private	
Monitor outbound traffic from Azure Private to Azure Public and Internet	
Monitor traffic from Azure to on-premises networks	
Monitor traffic from Azure private to Azure public and Internet	
Monitor traffic from Azure private to Azure public and Internet with SSL termination	
Vulnerability Management	
Declarative configuration management	
Encrypt data at rest for services with public endpoints	
Encrypt data at rest for services with public endpoints that lack IAM controls	
Encrypt data in transit over private interconnections	
Encrypt data in transit over public interconnections	
IAM on all accounts	
IAM on all resources	
Identity Threat Protection	
Infrastructure as Code (central repository, code review and approval, SDL, etc.)	
MEA on all user accounts	

Network segmentation on application tier level No direct inbound traffic from Internet to Azure Private No network connectivity between playground and production workloads No outbound network connectivity to on-premises networks Assess and approve cloud services prior to deployment OS hardening OSThreat Protection Owner tagging (resource groups, resources) Monitor and assess updated Azure Service Terms and Audit Reports Platform Audit Logs Platform Security Monitoring Prescribe minimum OS levels Define Primary Application security layers (Data, IAM, Application) Customer provided Key Management Secure web publishing (network virtual appliance, Application Gateway) Platform native security management and threat protection with on-prem SIEM integration Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point protection End-point protection and Response Web Application Firewall (WAF)	Network	k segmentation and containment
No network connectivity between playground and production workloads No outbound network connectivity to on-premises networks Assess and approve cloud services prior to deployment OS hardening OS Threat Protection Owner tagging (resource groups, resources) Monitor and assess updated Azure Service Terms and Audit Reports Platform Audit Logs Platform Audit Logs Platform Security Monitoring Prescribe minimum OS levels Define Primary Application security layers (Data, IAM, Application) Customer provided Key Management Secure web publishing (network virtual appliance, Application Gateway) Platform native security management and threat protection with on-prem SIEM integration Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point protection	Network	k segmentation on application tier level
No outbound network connectivity to on-premises networks Assess and approve cloud services prior to deployment OS hardening OS Threat Protection Owner tagging (resource groups, resources) Monitor and assess updated Azure Service Terms and Audit Reports Platform Audit Logs Platform Audit Logs Platform Security Monitoring Prescribe minimum OS levels Define Primary Application security layers (Data, IAM, Application) Customer provided Key Management Secure web publishing (network virtual appliance, Application Gateway) Platform native security management and threat protection with on-prem SIEM integration Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point protection	No direc	ct inbound traffic from Internet to Azure Private
Assess and approve cloud services prior to deployment OS hardening OS Threat Protection Owner tagging (resource groups, resources) Monitor and assess updated Azure Service Terms and Audit Reports Platform Audit Logs Platform Audit Logs Platform Security Monitoring Prescribe minimum OS levels Define Primary Application security layers (Data, IAM, Application) Customer provided Key Management Secure web publishing (network virtual appliance, Application Gateway) Platform native security management and threat protection with on-prem SIEM integration Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point protection End-point Detection and Response	No netw	vork connectivity between playground and production workloads
OS hardening OS hardening OS Threat Protection Owner tagging (resource groups, resources) Monitor and assess updated Azure Service Terms and Audit Reports Platform Audit Logs Platform Audit Logs Platform Security Monitoring Prescribe minimum OS levels Define Primary Application security layers (Data, IAM, Application) Customer provided Key Management Secure web publishing (network virtual appliance, Application Gateway) Platform native security management and threat protection with on-prem SIEM integration Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point protection End-point Detection and Response	No outb	ound network connectivity to on-premises networks
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Monitor and assess updated Azure Service Terms and Audit Reports Platform Audit Logs Platform Security Monitoring Prescribe minimum OS levels Define Primary Application security layers (Data, IAM, Application) Customer provided Key Management Secure web publishing (network virtual appliance, Application Gateway) Platform native security management and threat protection with on-prem SIEM integration Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point protection End-point Detection and Response	OS Thre	at Protection
Platform Audit Logs Platform Security Monitoring Prescribe minimum OS levels Define Primary Application security layers (Data, IAM, Application) Customer provided Key Management Secure web publishing (network virtual appliance, Application Gateway) Platform native security management and threat protection with on-prem SIEM integration Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point Detection and Response	Owner ta	agging (resource groups, resources)
Platform Security Monitoring Prescribe minimum OS levels Define Primary Application security layers (Data, IAM, Application) Customer provided Key Management Secure web publishing (network virtual appliance, Application Gateway) Platform native security management and threat protection with on-prem SIEM integration Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point protection End-point Detection and Response	Monitor	and assess updated Azure Service Terms and Audit Reports
Prescribe minimum OS levels Define Primary Application security layers (Data, IAM, Application) Customer provided Key Management Secure web publishing (network virtual appliance, Application Gateway) Platform native security management and threat protection with on-prem SIEM integration Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point protection End-point Detection and Response	Platform	h Audit Logs
Define Primary Application security layers (Data, IAM, Application) Customer provided Key Management Secure web publishing (network virtual appliance, Application Gateway) Platform native security management and threat protection with on-prem SIEM integration Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point protection End-point Detection and Response	Platform	n Security Monitoring
Customer provided Key Management Secure web publishing (network virtual appliance, Application Gateway) Platform native security management and threat protection with on-prem SIEM integration Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point protection End-point Detection and Response	Prescrib	e minimum OS levels
Secure web publishing (network virtual appliance, Application Gateway) Platform native security management and threat protection with on-prem SIEM integration Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point protection End-point Detection and Response	Define P	rimary Application security layers (Data, IAM, Application)
Platform native security management and threat protection with on-prem SIEM integration Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point protection End-point Detection and Response	Custome	er provided Key Management
Terms of use for isolated Playground environments (e.g. development and test purposes are prohibited) End-point protection End-point Detection and Response	Securew	veb publishing (network virtual appliance, Application Gateway)
prohibited) End-point protection End-point Detection and Response	Platform	n native security management and threat protection with on-prem SIEM integration
End-point Detection and Response		
	End-poi	nt protection
Web Application Firewall (WAF)		
	Web Ap	plication Firewall (WAF)
Data Leakage Prevention	Data Lea	kage Drevention

Security Control Framework: connect risk analysis to controls framework

MINIMAL BUSINESS IMPACT	LOW – MEDIUM BUSINESS IMPACT		S IMPACT	HIGH BUSINESS IMPACT	
PLAYGROUND CONTROLS	СОМР	COMPLEMENTARY CONTROLS		COMPLEMENTARY CONTROLS	
 	 ••• ••• ••• ••• ••• ••• ••• 			 	
	STANDARD CONTROLS				
	.	■	■	■	
	.	■	-	■	
	.	■	■	■	
FOUNDATION CONTROLS					

Cloud Service Provider Controls –

NIST 800-53r4 | Trusted platform | Control plane: Monitoring - Just in Time Access - Auditing - Reporting

Security Control Framework – Some Example Controls

MINIMAL BUSINESS IMPACT	LOW – MEDIUM BUSINESS	ΙΜΡΑCΤ	HIGH BUSINESS IMPACT		
PLAYGROUND CONTROLS	COMPLEMENTARY CONT	ROLS	COMPLEMENTARY CONTROLS		
 Automatically purge environments Explicitly accepts terms of use 	 Cloud Service provider managed Encrypt data at rest with custom managed keys for services with public endpoints and no AAD in 	tegation	 Customer managed keys Encrypt data at rest 		
		ROLS			
	Vulnerability Management	OS Hardening	Endpoint Detection & Response		
	Web Application Firewall	.	■		
	■ ■		■		
FOUNDATION CONTROLS					
■ MFA on all user accounts ■ Platform Audit Logs ■ Owner tagging (resource groups, resources) ■ ■ ■ ■ ■ ■ ■					

Microsoft Azure Managed Controls – Azure Service Teams & Sec-Compliance team NIST 800-53r4 | Trusted platform | Control plane: Monitoring - Just in Time Access - Auditing - Reporting

Getting started... Cloud requires knowledge and understanding

Hicrosoft			🔎 Sign in
DOCS Windows Microso	ft Azure Visual Studio Offic	e More ~	
	tation for admins		
	es and server products for your business figuring and managing Office products a		ale. This page provides guidance for admins and IT
Find guidance for <u>Developers</u> , <u>End us</u>	ers, and Educators.		
Office 365 Office 365 admin Office 365 security and com Enterprise cloud solutions Manage Office 365 with Off PowerShell More >	Cloud void	d om Skype for Business to Teams	Deploy Office Get started Deploy Office 365 ProPlus Office 2016 for Mac Office 2016 More >
SharePoint Server SharePoint Server SharePoint Online Hybrid PowerShell reference for Sh More >	Exchange Exchange Exchange Hybrid arePoint PowerShe More >	Server	Skype for Business Skype for Business Server Skype for Business Online Hybrid PowerShell reference for Skype for Business More >
Project Project Server Project Conline	Office On Get starter	line Server	OneDrive Admin help on support office.com
Microsoft			,으 Sign in
DOCS Get Dynamics 365 F	toadmap Support ~ Region	nal availability Trust Centre	AppSource More ~
Dynamics 365 D	ocumentation		
Get started with Dynamics 365 Applications Add-in solutions and apps Integrate, customise, develop	DYNAMICS 365 FOR Sales Overview Set up and administer Customise User Guide	DYNAMICS 365 FOR Marketing Overview Set up and administer Customise Develop User Guide	OVYNAMICS 365 FOR Customer Service Overview Set up and administer Customise User Guide
	DYNAMICS 365 FOR Field Service Overview Set up and administer Customise User Guide	DYNAMICS 365 FOR Project Servin Automation Overview Set up and administer Customise User Guide	Ce DYNAMICS 365 FOR Customer Insights Overview Set up and administer Develop
	DYNAMICS 365 Business Centra Overview	al Dynamics 365 For Finance and Operations	DYNAMICS 365 FOR Retail User's Guide

Maximum Maximum TRUST CONTROL laaS PaaS SaaS Trusted Execution SQL Database Transparent Data Customer Encryption, VNet Private Access Lockbox Environment Isolated VMs Azure Active Directory, Azure Key Vault Azure control plane, just in time access, monitoring, auditing, and reporting Underlying trusted platform **Microsoft Azure** Contact Sales: 1-800-867-1389 📞 Search Q Portal Why Azure arphi Solutions Products arphi Documentation Pricing Training Marketplace Partners arphi Support arphi Blog More arphiFree account > Azure / Security Azure Security Documentation Filter by title Security is integrated into every aspect of the Azure. Azure offers you unique security advantages derived from global security Azure Security Documentation intelligence, sophisticated customer-facing controls, and a secure hardened infrastructure. This powerful combination helps protect your applications and data, support your compliance efforts, and provide cost-effective security for organizations of all sizes. > Architecture and design > Data security and encryption Learn about Azure security > Platform and infrastructure > Application > Monitoring, auditing, and operations I'm considering Azure for my How does Microsoft share security How does Azure isolate my > Governance and compliance company. What security does responsibilities with my resources from other Azure White papers Azure have to offer? organization? customers? Azure security services Technical overviews Best practices Network security overview Storage security overview Data encryption overview > Resources What monitoring and logging How does Azure secure my data How do I encrypt Azure virtual options are available in Azure? at rest? machines Is this page helpful? ↓ Download PDF

Assurance & tooling https://aka.ms/stp (GDPR example)

DD

The fastest way to streamline your organization's compliance process

Microsoft publishes the information and resources you need to perform self-service risk assessments of our cloud services and tools to help you track regulatory compliance activities within our cloud.



Track Compliance Manage your organization's regulatory compliance activities in the Microsoft Cloud LAUNCH COMPLIANCE MANAGER

Audit Reports See how the Microsoft Cloud complies with standards that matter to your organization AUDIT REPORTS AND RESOURCES



Data Protection Get details on how the Microsoft Cloud is designed to protect customer data

DATA PROTECTION RESOURCES

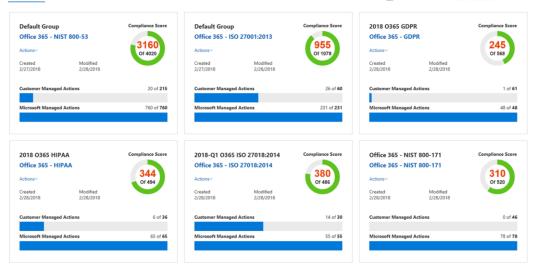
Privacy Learn about Microsoft capabilities that support your privacy and GDPR compliance obligation GET STARTED

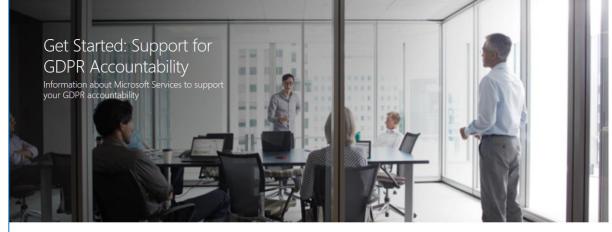
□ Show Archived +Add Assessment Filter~

Help

Assessments Action Items

Compliance Manager





Our commitment to support your GDPR compliance starts right here

What is the GDPR?

On May 25, 2018, a European privacy law, the General Data Protection Regulation (GDPR), will take effect. The GDPR imposes new rules on companies, government agencies, non-profits, and other organizations that offer goods and services to people in the European Union (EU), or that collect and analyze data tied to EU residents.

This site is designed to provide you information about the capabilities in Microsoft services that you can use to address specific requirements of the GDPR. Access the documentation heipful to your GDPR accountability, and to your understanding of the technical and organizational measures Microsoft has taken to support the GDPR. Documentation for Data Protection Impact Assessments, Data Subject Requests (DSRs), and Data Breach Notification is provided to ncorporate into your own accountability program in support of the GDPR

Select a topic below to get started:



Assessments How Microsoft Helps Controllers Address Data Subject Requests How Microsoft helps organizations meet their own DPIA obligations

Data Subject Requests

Under the GDPR

LEARN MORE



Data Breach Notification

How Microsoft detects and responds to a breach of personal data and notifies controllers under the GDPF LEARN MORE >

Additional Supporting Information

LEARN MORE

A key part of Microsoft support for your compliance to the GDPR are the commitments we make in our agreements that we make with you as a customer. Not only do we stand behind you with those commitments, the GDPR requires specific issues be addressed in our agreement with you. How Microsoft supports those commitments with specific controls is detailed in the Compliance Manager

Customer Agreements

Online Services Terms

You can find Microsoft's contractual commitments with regard to the GDPR in the Online Services Terms. The GDPR Terms commit Microsoft to the requirements on processors in GDPR Article 28 and other Articles of GDPR. (The GDPR Terms are in Attachment 4 to the Online Services Terms, at the end of the documen

Microsoft Product Terms

Microsoft extends the GDPR Terms commitments to all Volume Licensing customers regardless of the applicable version of customer's Online Services Terms, and under the Microsoft Product Terms

Microsoft Professional Services Data Protection Addendum (MPSDPA)

Microsoft Services extends the commitments to Microsoft Consulting Services customers and to Premier/Unified Support customers in the Microsoft Professional Services Data Protection Addendum (MPSDPA).

Compliance Manager

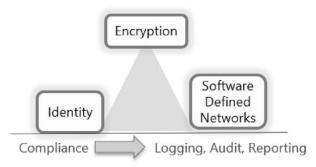
Transparent access to Microsoft Service controls in support of **GDPR** obligations

Review the controls Microsoft uses to support obligations in the GDPR and incorporate those controls into your own compliance frameworks. Key controls implemented by Microsoft Services in support of GDPR can be managed directly in the Compliance Manager.

Download GDPR Mapping to Microsoft Controls

To give you the option of choosing the controls important to your compliance program, a comprehensive mapping of Microsoft controls to GDPR obligations is available for download. These downloadable Excel files provide a detailed mapping of the internal controls used by Microsoft services to address specific obligations in GDPR Articles. They provide comprehensive transparency about the controls Microsoft services use to support GDPR, and to support your governance cycle and tools.

Key activities and essential controls to address risk



Governance & Risk management & Policies

- Develop policies for how to evaluate, adopt, and use cloud services to minimize creation of inconsistencies and vulnerabilities that attackers can exploit.
- Identity policies
- Data policies
- Compliance policies and documentation

Administrative Privilege Management

• IT administrators are a dependency for cloud security. The privileged accounts, credentials, and workstations where the accounts are used must be protected and monitored.

Identity Systems and Identity Management

 Secure identity systems at or above the level of cloud services.

Data Protection

• You own your data. Classify your sensitive data and ensure it is protected and monitored wherever it is stored.

Monitoring, Threat awareness and Incident Response

- Evaluate the threats that apply to your organization and put them into context by leveraging resources like threat intelligence and Information Sharing and Analysis Centers (ISACs).
- Implementing continuous monitoring & detection capabilities

Security in and of the cloud agility & change is the new normal...





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References

Microsoft assurance information

1. Descriptive:

Microsoft trustcenter: https://www.microsoft.com/en-us/TrustCenter/default.aspx

2. Independently verified:

Microsoft Service Trust portal: https://servicetrust.microsoft.com

3. Contractual:

Microsoft online service terms & SLA: <u>https://www.microsoft.com/en-us/Licensing/product-licensing/products.aspx</u>

- · Microsoft On the Issues: https://blogs.microsoft.com/on-the-issues/
- Microsoft Data & Law: <u>https://blogs.microsoft.com/datalaw/</u>
- Microsoft Transparency reports: <u>https://www.microsoft.com/en-us/about/corporate-responsibility/reports-hub</u>
- Microsoft Cloud IT Architecture resources: https://docs.microsoft.com/en-us/office365/enterprise/microsoft-cloud-it-architecture-resources
- Cloud Services Due Diligence Checklist (ISO 19086 based): <u>https://www.microsoft.com/en-us/trustcenter/Compliance/Due-Diligence-Checklist</u>
- · SAFE Handbook: http://aka.ms/safehandbook
- Microsoft Cyber Trust Blog: <u>https://blogs.microsoft.com/cybertrust</u>
- Microsoft Secure: <u>https://www.microsoft.com/en-us/security/default.aspx</u>
- A Data driven security defense: https://gallery.technet.microsoft.com/Fixing-the-1-Problem-in-2e58ac4a
- Enterprise Cloud strategy e-book: https://info.microsoft.com/enterprise-cloud-strategy-ebook.html
- Microsoft Security Intelligence Report: <u>https://www.microsoft.com/security/sir/default.aspx</u>