



PREPARED FOR

Contoso

March 31, 2025

Contoso

ΞZ insights on the configuration and status of resources.

REPORT INTRODUCTION

This report is prepared for Contoso and shows the current configuration of the subscription detailed below. Besides the resource configuration this document also provides information on the ΞZ insights configuration values and historical settings.

Company	Contoso
Service	MDC 1.0 Dynamics
Product	ΞZ insights reporting
Subscription	CON-AWE-SPC-PRD-1
Report date	2025-03-31 20:00:09
Intwo region	Europe

Subscription information

Subscription information and statistics.

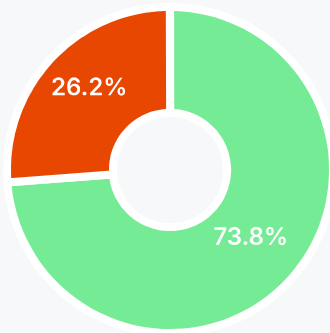
SUMMARY

Subscription	CON-AWE-SPC-PRD-1
Subscription type	CSP
Subscription state	Enabled
Number of resources	528
Retiring services	32

Compliance

Overview of compliance state since March 2, 2025.

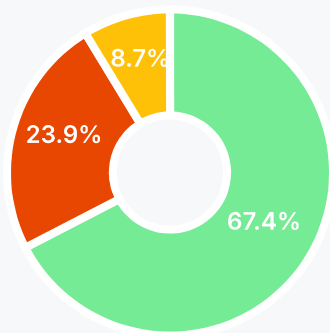
COMPLIANCE OVERVIEW



Based on the total of passed and failed checks the compliance is calculated and expressed in a percentage. Typically this percentage should be kept at 100%.

	PERCENTAGE
Compliant	74%
Non-compliant	26%

STATUS OVERVIEW



Daily checks are performed on resources in the subscription, these checks can pass or fail based on the expected state. Typically checks are skipped when resources are excluded from a check or when a resource is in a state it cannot be checked.

	NUMBER	PERCENTAGE
Total checks	1370	100%
Passed checks	923	67%
Failed checks	328	24%
Skipped checks	119	9%

COMPLIANCE SUMMARY

An overview of all verifications in failed state.

RESOURCE	STANDARD	FAILED
Advisor	VM Reserved Instance	12
Application Gateway	Certificate expiry	3
Availability Set	VM count	9
Azuresqlserver	Database Count	2

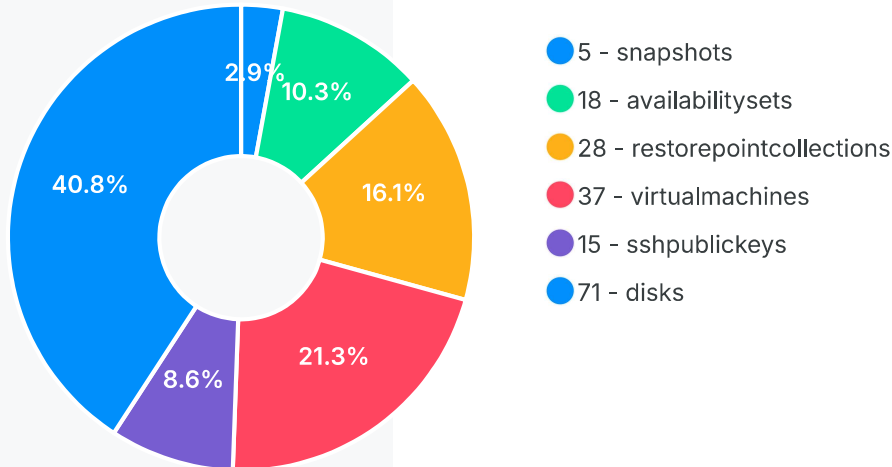
	Entra Group login	2
	Outbound Network Access	2
	Private Endpoint Connection	2
	Recurring Scan of Vulnerabilities	2
	TLS Version	2
Consumption	Budget	1
Info	Retiring services	32
Keyvaults	KeyVault PurgeProtection	1
Managed Disks	Attached	10
Network Interfaces	Attached	3
Network Security Group	Deny By Default Inbound	1
	Deny By Default Outbound	3
Public Ip	External attack management	23
	IP address set	1
	IP associated	8
	SKU	14
Recovery Services Vault	Backup age	3
	Immutable vault	2
	Storage redundancy	1
Servicehealth	HealthAdvisory	4
Snapshots	Snapshot age	2

	Snapshot network access	2
Storage Accounts	BLOB public access configuration	27
	Blob Soft Delete	27
	HTTP (plain) traffic	20
	Minimal TLS configuration	24
	Share Soft Delete	23
Update Manager	Excessive Patches	3
	Periodic Assessment	26
	Update assessment status	4
Virtual Machine	BootDiagnostics	6
	Powerstate	1
Vm Backup	VM backup redundancy	2
Vpn Connection	Connected	13
Windows Updates	Workspace with Update Solution Linked exists	37

Azure Compute

Information and insights on Azure Compute related resources.

COMPUTE RESOURCES



COMPUTE CHECKS

Antimalware

Definition date	12	1	0
 Best practice: virtual machines should be scanned for malware with up to date definitions. Failed resources: CONAWEPRDSQL01			

Availability Set

Best practice / Standard	Passed	Failed	Skipped
VM count	9	9	0
 Best practice: availability set should at least have 1 virtual machine associated. Failed resources: AS-CON-GIT-AWE-001, AS-CON-YPO-AWE-001, AS-AWE-NAV-AWE-22, AS-AWE-NAV-AWE-23, AS-AWE-NSQ-AWE-005, AS-AWE-RDG-AWE-01, AS-CON-NST-AWE-030, AS-CON-NST-AWE-031, AS-CON-NST-AWE-032			

Managed Disks

Best practice / Standard	Passed	Failed	Skipped
Attached	61	7	0
	<i>Best practice: managed disks should be attached to a resource, consider clean up (could also save some additional cost).</i> Failed resources: awensiprd02-osdisk-20240130-151047, awensiprd02-osdisk-20240131-102159, AWENSIPRD02_OsDisk_1_bdbb49faa5f64aca900a8a5cdbb02b0a, awensmprd01-osdisk-20231002-092929, awensmprd01-osdisk-20231002-101552, AWENSMPRD01_OsDisk_1_4f44e586e4084d97922382dcda7132cd, consqlprd12-datadisk-02		

Snapshots

Best practice / Standard	Passed	Failed	Skipped
Snapshot age	3	2	0
	<i>Best practice: clean up snapshots if no longer needed, after 3 months consider clean up (could also save some additional cost).</i> Failed resources: AWEFTPPRD01_OS_Disk-SS, AWEFTPPRD01_DATA_E-SS		
Snapshot network access	3	2	0
	<i>Best practice: snapshots should typically notbe exposed, restrict local access only as they may contain sensitive data.</i> Failed resources: AWEFTPPRD01_OS_Disk-SS, AWEFTPPRD01_DATA_E-SS		

Update Manager

Best practice / Standard	Passed	Failed	Skipped
Excessive Patches	4	3	0
	Best practice: updates should be applied regularly. Failed resources: AWENSEPRD01, AWENSEPRD02, AWESQDPRD02		
Missing updates	7	0	0
	Best practice: updates should be applied regularly.		
Periodic Assessment	11	10	0
	Best practice: virtual machines should have regular update assessments scheduled. Failed resources: AWECDPPRD30, AWEEOBPRD11, AWEECAPRD01, ANEADSPRD02, AWEADSPRD06, AWEADSPRD07, AWEWCAPRD01, CCODFSPRD01, CCODFSPRD02, CCOKMSPRD01		
Reboot pending	2	0	0
	Operational state: virtual machines should not have pending reboots.		
Update assessment date	7	0	0
	Operational state: virtual machines update status should not be outdated.		
Update assessment status	7	4	0
	Operational state: virtual machines update status should be ok. Failed resources: AWENSMPRD01, AWEADSPRD10, AWEADSPRD09, ANEADSPRD01		
Update readiness	7	0	0
	Operational state: virtual machines should be ready to apply updates.		

Virtual Machine

Best practice / Standard	Passed	Failed	Skipped
BootDiagnostics	31	6	0
	<i>Best practice: enable virtual machine boot diagnostics to be able to debug issues at start up.</i> Failed resources: AWESQLPRD04, AWERDGPRD06, AWEFSWPRD01, AWERDGPRD05, SAASCCPRDAWE01, AWEECAPRD01		
encryptionAtHost	6	0	7
	<i>Best practice: encrypt virtual machines (on virtual machine layer) for better data protection, required in many data protection laws such as GDPR.</i> Skipped resources: AWENSEPRD02, AWENSEPRD01, AWENSIPRD01, AWENSMPRD01, AWENSIPRD02, AWECDPPRD30, AWEANSPRD01		
Powerstate	36	1	0
	<i>Best practice: deallocated machines should be taken out of service if no longer used.</i> Failed resources: CCORCAPRD01		
Resource	37	0	0
	<i>Counter: no best practice just counting resources.</i>		

Vm Backup

Best practice / Standard	Passed	Failed	Skipped
VM backup	37	0	0
	Best practice: virtual machines should be in backup to be able to recover from errors.		
VM backup redundancy	35	2	0
	Failed resources: ANEADSPRD02, ANEADSPRD01		
VM backup retention	37	0	0
	Standard: a standard retention time of 30 or 31 days is expected, exceptions may be configured.		
VM backup schedule	37	0	0
	Standard: a daily backup is expected minimize data loss in case of disaster (RPO).		
VM backup snapshot retention	37	0	0
	Standard: snapshots should be available for 2 days for speedy recovery, specifically in situations where large numbers of virtual machines need to be restored (i.e. ransomware attacks).		
VM backupjob	37	0	0
	Operational state: shows if a backup is available within the configured retention time.		

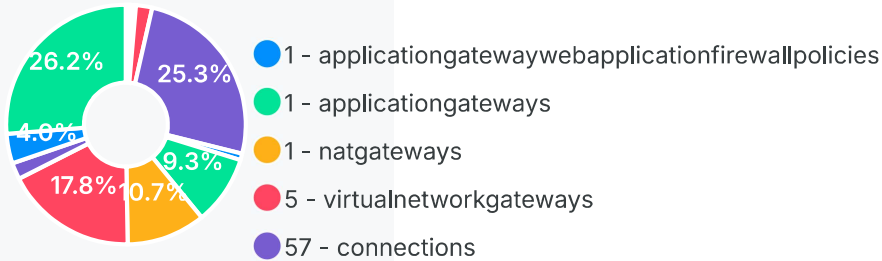
Vmstatusscan

Best practice / Standard	Passed	Failed	Skipped
VM Agent Status	36	0	1
	<i>Operational state: verification the Azure guest agent is responsive.</i> Skipped resources: CCORCAPRD01		

Azure Network

Information and insights on Azure Network related resources.

NETWORK RESOURCES



NETWORK CHECKS

Virtual Network

Best practice / Standard	Passed	Failed	Skipped
Peering state	1	0	0
Best practice: virtual network peering should be connected and not be left in disconnected state.			
Resources	5	0	0
Counter: number of resources present.			
Subnet NSG	21	0	5
Best practice: each subnet in a virtual network should have a network security group attached. Skipped resources: VNET-CON-SCC-PRD-ANE-001, VNET-CON-SCC-PRD-AWE-001, VNET-CON-SGW-PRD-AWE-001, VNET-CON-SPC-PRD-AWE-001, VNET-CON-SCC-PRD-AWE-200			

Network Interfaces

Best practice / Standard	Passed	Failed	Skipped
Attached	37	3	0
Best practice: network interfaces should be attached to a resource, if they are not consider to clean them up. Failed resources: NIC-AWENSTPRD26-1, NIC-AWESQLPRD05-1, NIC-SAA NSTPRD22-1			
IP forwarding	37	0	0
Best practice: network interfaces by default should not forward (route) traffic.			
Protected with NsgAsg	37	0	0
Best practice: network interfaces should be protected with a NSG or ASG on network interface and/or subnet level.			
Resources	37	0	0
Counter: number of resources present.			

Network Security Group

Best practice / Standard	Passed	Failed	Skipped
Allow All Inbound	21	0	0
Best practice: network security groups should not allow traffic by default.			
Allow All Outbound	21	0	0
Best practice: network security groups should not allow traffic by default.			
Deny By Default Inbound	20	1	0
Best practice: network security groups should deny traffic by default. Failed resources: NSG-CON-AWE-SQDNET-PRD-001			
Deny By Default Outbound	18	3	0
Best practice: network security groups should deny traffic by default. Failed resources: NSG-CON-AWE-CDTNET-PRD-001, NSG-CON-AWE-AAGNET-PRD-001, NSG-CON-AWE-SQDNET-PRD-001			
NSG associated	21	0	0
Best practice: network security groups should be associated to a resource.			

Public Ip

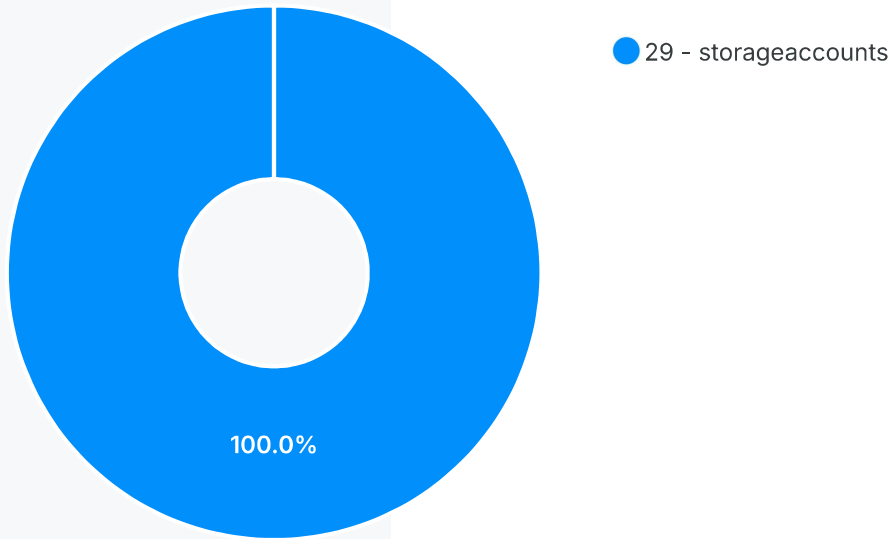
Best practice / Standard	Passed	Failed	Skipped
External attack management	0	23	0
Failed resources: PIP-VNG-VNET-CON-SCC-PRD-ANE-001, PIP-AWENSEPRD02, PIP-AWENSEPRD01, PIP-AWEHDWPRD01-01, PIP-CONAAGPRDAWE01-1, PIP-NGW-CON-SCC-PRD-AWE-001, pip-nic-concofprd11-tst, PIP-SAASCCPRDAWE01, PIP-VNG-VNET-CON-SCC-PRD-AWE-001, AWEFTPPRD01-ip, AWEFTPPRD01ip428, PIP-XLB-AWENSEPRD1, PIP-VNG-VNET-CON-SGW-PRD-AWE-001, PIP-XLB-AWENSEPRD2, PIP-VNG-VNET-CON-SCC-PRD-AWE-200, PIP-NIC-AWENSTPRD26-1, PIP-NIC-SAANSTPRDAWE30, PIP-VNG-VNET-CON-SPC-PRD-AWE-001, PIP-XLB-AWENAVPRD22, PIP-XLB-AWENAVPRD23, PIP-XLB-AWENSTPRD01, PIP-XLB-AWERDGPRD01, PIP-XLB-SAANAVPRD22			
			
IP address set	23	1	0
Best practice: a public IP address resource should have an IP address associated with it, if not consider clean up. Failed resources: NIC-AWEFSWPRD01-1			
			
IP associated	16	8	0
Best practice: a public IP address resource should be associated with a resource. Failed resources: PIP-AWEHDWPRD01-01, PIP-NGW-CON-SCC-PRD-AWE-001, pip-nic-concofprd11-tst, NIC-AWEFSWPRD01-1, AWEFTPPRD01ip428, PIP-XLB-AWENSEPRD1, PIP-XLB-AWENSEPRD2, PIP-NIC-SAANSTPRDAWE30			
			
Resources	24	0	0
Counter: number of resources present.			
			
SKU	10	14	0
Best practice: a public IP address should not use "basic" SKU as this is scheduled for retirement(obsolete check). Failed resources: PIP-XLB-AWENAVPRD22, PIP-XLB-AWENSTPRD01, PIP-XLB-SAANAVPRD22, PIP-XLB-AWERDGPRD01, PIP-XLB-AWENAVPRD23, PIP-SAASCCPRDAWE01, PIP-VNG-VNET-CON-SCC-PRD-AWE-001, PIP-VNG-VNET-CON-SGW-PRD-AWE-001, PIP-VNG-VNET-CON-SCC-PRD-AWE-200, NIC-AWEFSWPRD01-1, PIP-NIC-AWENSTPRD26-1, PIP-NIC-SAANSTPRDAWE30, PIP-VNG-VNET-CON-SPC-PRD-AWE-001, PIP-AWEHDWPRD01-01			

			
Static IP assignment	23	0	0
Best practice: IP addresses should be set statically to survive reboot.			
			
Vpn Connection			
Best practice / Standard	Passed	Failed	Skipped
Connected	44	13	0
Best practice: connections should be connected, if they are not consider clean up. Failed resources: CON-VNG-VNET-ABC-CSP-PRD-AWE-001, CON-VNG-VNET-AMA-CSP-SCC-AWE-001, CON-VNG-VNET-IEP-CSP-SCC-AWE-001, CON-VNG-VNET-TNM-CSP-PRD-AWE-001, CON-LNG-VNET-AUK-CSP-SCC-AWE-001, CON-VNET-IMP-CSP-POC-AWE-002, CON-VNET-MAX-CSP-PRD-AWE-001, CON-VNET-RCO-SEA-PRD-AWE-002, CON-VNG-VNET-EDG-CSP-PRD-AWE-001, CON-VNG-VNET-EYF-CSP-SCC-AWE-003, CON-VNG-VNET-HOR-CSP-PRD-AWE-001, CON-VNG-VNET-IMP-AWE-REA-DTA-004, CON-VNG-VNET-NMB-CSP-PRD-AWE-001			
			
Resource	57	0	0
Counter: no best practice just counting resources.			
			

Azure Storage

Information and insights on Azure Storage related resources.

STORAGE RESOURCES



STORAGE CHECKS

Storage Accounts

Best practice / Standard	Passed	Failed	Skipped
BLOB public access configuration	2	27	0
<i>Best practice: public access to BLOB's should be disabled.</i> Failed resources: migratec7aa5Isa49471, stoconspctmpaweprd01, storibreadiaaweprddgl001, stoconcspsmonaweprddtl001, stoconcspsdpaweprddgl001, stoconcspsqlaweprdosl002, stoconcspsqlaweprdosl003, stoconcsypoweprddtl001, stoconscgitaweprdosg001, stoconspcftaweprdfil001, stoconspcidtaweprddtl001, stoconspcidtaweprdosl001, stoconspcnawewediagl001, stoconspcnawaweprdosl001, stoconspcnawaweprdosl002, stoconspcopsaweprddtl001, stoconspcopsaweprdosl001, stoconspcopsawewediagl001, stoconspcrdsaweprdosl002, stoconspcribaweprddtl001, stoconspcrdgaweprdosl001, stoconspcrdsaweprdosl001, stoconspcsqlaweprddtl001, stoconspcsqlaweprddtl002, stoconspcsqlaweprdosl004, stoconspcvltaweprddtl001, tempnavdebugging			
			
Blob Soft Delete	2	27	0
<i>Best practice: BLOB's should be protected from accidental deletion.</i> Failed resources: tempnavdebugging, stotempvpntroubleshoot01, stoconspcvltaweprddtl001, stoconspcsqlaweprdosl004, stoconspcsqlaweprddtl002, stoconspcsqlaweprddtl001, stoconspcrdsaweprdosl001, stoconspcribaweprddtl001, stoconspcrdsaweprdosl002, stoconspcopsaweprddtl001, stoconspcrdgaweprdosl001, stoconspcopsaweprdosl001, stoconspcopsawewediagl001, stoconspcnawaweprdosl002, stoconspcnawaweprdosl001, stoconspcnawewediagl001, stoconspcidtaweprdosl001, stoconspcidtaweprddtl001, stoconscgitaweprdosg001, stoconcsypoweprddtl001, stoconcspsqlaweprdosl003, stoconcspsqlaweprdosl002, stoconcspsdpaweprddgl001, stoconcspsmonaweprddtl001, storibreadiaaweprddgl001, stoconspctmpaweprd01, migratec7aa5Isa49471			
			
HTTP (plain) traffic	9	20	0
<i>Best practice: non encrypted traffic to storage accounts should not be allowed.</i> Failed resources: storibreadiaaweprddgl001, stoconcspsdpaweprddgl001, stoconcspsqlaweprdosl002, stoconcspsqlaweprdosl003, stoconcsypoweprddtl001, stoconscgitaweprdosg001, stoconspcidtaweprddtl001, stoconspcidtaweprdosl001, stoconspcnawewediagl001, stoconspcnawaweprdosl001, stoconspcnawaweprdosl002, stoconspcopsawewediagl001, stoconspcopsaweprdosl001, stoconspcrdgaweprdosl001, stoconspcopsaweprddtl001, stoconspcrdsaweprdosl001, stoconspcsqlaweprddtl001, stoconspcsqlaweprddtl002, stoconspcvltaweprddtl001, tempnavdebugging			
			
Minimal TLS configuration	5	24	0

Best practice: only the latest TLS version should be supported.

Failed resources: tempnavdebugging, stoconspcvltaweprddtl001, stoconspcsqlaweprdosl004, stoconspcsqlaweprddtl002, stoconspcsqlaweprddtl001, stoconspcrdsaweprdosl001, stoconspcribaweprddtl001, stoconspcrdsaweprdosl002, stoconspcopsaweprddtl001, stoconspcrdgaweprdosl001, stoconspcopsaweprdosl001, stoconspcopsawediagl001, stoconspcnaweprdosl002, stoconspcnaweprdosl001, stoconspcnawediagl001, stoconspcidtaweprdosl001, stoconspcidtaweprddtl001, stoconscgitaweprdosg001, stoconspypoweprddtl001, stoconspsqlaweprdosl003, stoconspsqlaweprdosl002, stoconspsdaweprddgl001, stoconspmonaweprddtl001, storibreadiaaweprddgl001

			
Resources	29	0	0

Counter: number of resources present.

			
Share Soft Delete	6	23	0

Best practice: file shares should be protected from accidental deletion.

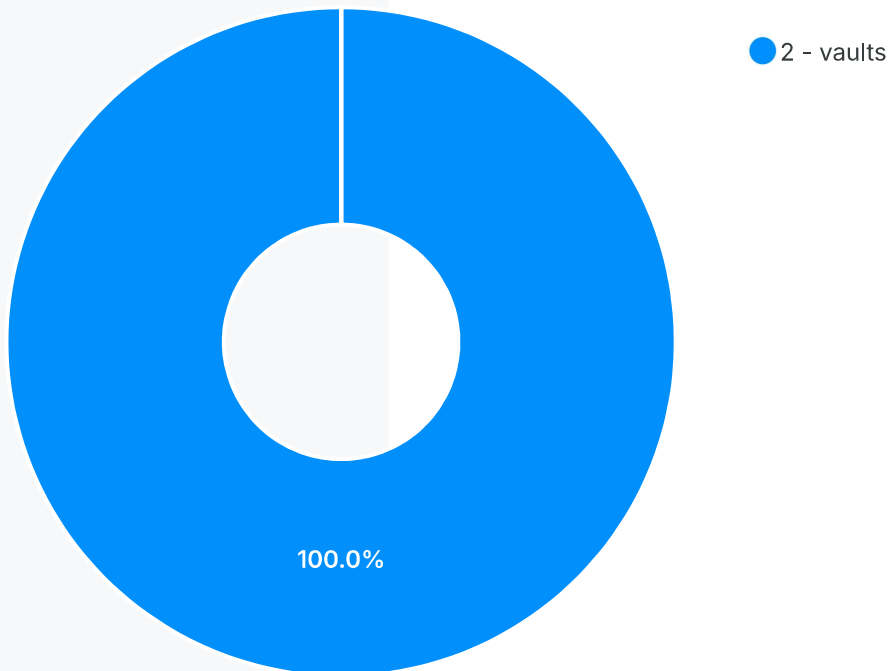
Failed resources: tempnavdebugging, stoconspcvltaweprddtl001, stoconspcsqlaweprdosl004, stoconspcsqlaweprddtl002, stoconspcrdsaweprdosl001, stoconspcrdsaweprdosl002, stoconspcsqlaweprddtl001, stoconspcopsaweprddtl001, stoconspcribaweprddtl001, stoconspcrdgaweprdosl001, stoconspcopsaweprdosl001, stoconspcopsawediagl001, stoconspcnaweprdosl002, stoconspcnaweprdosl001, stoconspcnawediagl001, stoconspcidtaweprdosl001, stoconspcidtaweprddtl001, stoconscgitaweprdosg001, stoconspypoweprddtl001, stoconspsqlaweprdosl003, stoconspsqlaweprdosl002, stoconspsdaweprddgl001, stoconspmonaweprddtl001

			
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Azure Recovery Services

Information and insights on Azure Recovery Services related resources.

RECOVERY SERVICES RESOURCES



RECOVERY SERVICES CHECKS

Recovery Services Vault

Best practice / Standard	Passed	Failed	Skipped
Backup age	62	3	0
Operational state: backups which have aged could be considered for clean up. Failed resources: BV-CON-SCC-AWE-PRD-VML-001, BV-CON-SCC-AWE-PRD-VML-001, BV-CON-SCC-AWE-PRD-VML-001			
			
Immutable vault	0	2	0
Failed resources: BV-CON-SCC-AWE-PRD-VML-001, RV-CON-CSP-ANE-PRD-VML-001			
			
Storage redundancy	1	1	0
Best practice: storage in recovery vaults should be GEO redundant. Failed resources: RV-CON-CSP-ANE-PRD-VML-001			
			
Vault usage	2	0	0
Best practice: unused recovery vaults should be considered for clean up.			
			

Siterecovery

Best practice / Standard	Passed	Failed	Skipped
1. Is VM in ASR replication	0	0	37
Best practice: virtual machines should be able to be recovered on disaster and replicated to a secondary site. Skipped resources: AWEADSPRD09, AWEADSPRD10, AWEANSPRD01, AWECDPPRD30, ANEADSPRD01, ANEADSPRD02, AWEADSPRD07, AWERDGPRD06, AWEADSPRD06, AWENSEPRD01, AWENSEPRD02, CCODFSPRD02, CCOKMSPRD01, CCORCAPRD01, CCORDLPRD01, MSHNASPRD01, concobprd11, concofprd11, AWESQLPRD04, AWERDSPRD06, AWERDSPRD07, AWECOBPRD11, AWEECAPRD01, SAANASPRD-EMEA2, SAASCCPRDAWE01, consqlprd12, AWEDFSPRD03, AWEFSWPRD01, AWEFTPPRD01, AWERDGPRD05, AWENSIPRD01, AWENSIPRD02, AWENSMPRD01, AWESQDPRD01, AWESQDPRD02, AWEWCAPRD01, CCODFSPRD01			
			