Opsvane.

CLOUD COST AUDIT

Azure Cost Audit Technical Findings Pack

Every finding, the resources behind it and the recommended change. Written for the engineers who will implement the plan.

PREPARED FOR
Contoso Ltd

ASSESSMENT WINDOW
25 Mar 2025 to 24 Mar 2026

ISSUED
27 March 2026

Confidential. Prepared for the named recipient only.

Illustrative sample. Names and figures are fictional.

OVERVIEW

Technical findings

This pack supports the executive report. It lists every check we ran, the resources affected and the change we recommend, so your engineers can plan and implement the work without repeating the analysis.

YEARLY SPEND

€143,424/yr

€11,952 per month

Monthly average over 12 months

SPEND REVIEWED

€32,196/yr

€2,683 per month

22.5% of total flagged by at least one check

SAVINGS IDENTIFIED

€23,268/yr

€1,939 per month

16.2% of total

FINDINGS

315

Across 13 checks

Summary by category

	CATEGORY	FINDINGS	COST IN SCOPE	EST. SAVING / MONTH
W	**Immediate waste**	17	€109	€109
O	**Optimisation**	54	€1,185	€955
P	**Pricing**	15	€1,899	€1,139
D	**Data and storage**	47	€556	€306
N	**Network and architecture**	12	€0	€0
G	**Governance and visibility**	97	€0	€0
B	**Behavioural patterns**	73	€2,001	€862
Total across categories		**315**	**€5,749**	**€3,371**
Unique total, each resource counted once			€2,683	€1,939

A resource can appear in more than one category, for example a VM that is both oversized and a Spot candidate. The category total counts it every time. The unique total counts each resource once, under its highest impact action, and matches the executive report.

How to use this pack

Each finding has an ID, such as **W-01**, that you can use in tickets and change requests. Findings are grouped by category and include why it matters, the recommended action and the affected resources. Where a table shows only part of the list, the full list is provided as a spreadsheet alongside this pack.

INDEX

All findings

ID	FINDING	RESOURCES	EFFORT	RISK	CONFIDENCE	SAVING / MONTH
Immediate waste						
W-01	Disconnected private endpoints	5	Low	Low	High	€26
W-02	Route tables with no subnet	6	Low	Low	High	No direct saving
W-03	Unattached managed disks	6	Low	Low	High	€83
Optimisation						
O-01	Underutilised virtual machines	6	Medium	Medium	High	€612
O-02	Storage accounts on the Hot tier	48	Medium	Low	Medium	€344
Pricing						
P-01	Spot pricing candidates	15	Medium	Medium	To validate	€1,139 overlaps other findings
Data and storage						
D-01	Storage accounts without lifecycle rules	47	Medium	Low	Medium	€306 overlaps other findings
Network and architecture						
N-01	Resource groups spanning regions	12	High	Medium	To validate	No direct saving
Governance and visibility						
G-01	Empty network security groups	4	Low	Low	High	No direct saving
G-02	Resource groups missing required tags	55	Medium	Low	To validate	No direct saving
G-03	Untagged resources by resource group	38	Medium	Low	To validate	No direct saving
Behavioural patterns						
B-01	Deallocated VMs still paying for disks	58	Low	Low	High	€102
B-02	Development VMs without a shutdown schedule	15	Low	Low	High	€759 overlaps other findings

FINDINGS · W

Immediate waste

Resources that no longer serve any purpose. These are the lowest risk and fastest savings in the audit.

W-01 Disconnected private endpoints

RESOURCES	MONTHLY COST	EST. SAVING	EFFORT	RISK	CONFIDENCE
5	€26	€26	Low	Low	High

WHY IT MATTERS

These endpoints are disconnected from their target service but are still billed hourly.

RECOMMENDED ACTION

Confirm none are awaiting approval, then delete them along with any matching private DNS records.

RESOURCE GROUP	ENDPOINT NAME	SERVICE NAME	SERVICE TYPE	MONTHLY COST
rg-webportal-dev-euw	pep-Webportal-web-app-dev-euw	Webportal-web-app	microsoft.web/staticsites	€5.15
rg-contoso-it-dataapp-dev-euw	priv-sql-dataapp-dev-euw	sql-dataapp-dev-euw	microsoft.sql/servers	€5.15
rg-contoso-it-dataapp-dev-euw	pep-sql-dataapp-dev-euw	sql-dataapp-dev-euw	microsoft.sql/servers	€5.14
rg-contoso-payments-dev-euw	pl-contoso-payments2-app-stationdata-we-dev-we	app-contoso-payments2-stationdata-dev-we	microsoft.web/sites	€5.14
rg-contoso-it-dataapp-dev-euw	pep-vm-contoso-euw1-dev	sql-dataapp-dev-euw	microsoft.sql/servers	€5.14

W-02 Route tables with no subnet

RESOURCES	MONTHLY COST	EST. SAVING	EFFORT	RISK	CONFIDENCE
6	None	No direct saving	Low	Low	High

WHY IT MATTERS

No direct cost, but unused route tables add noise to audits and can be reattached by mistake.

RECOMMENDED ACTION

Check that no deployment template references them, then delete.

ROUTE TABLE NAME
RT-SNET-core-Dev-euw
RT-SNET-monitoring-d04191969
RT-test
RT-SNET-partner2-cmx-dev
RT-SNET-DnsResolver-SS-euw
RT-SNET-innovation-poc-func-out-Dev-euw

W-03 Unattached managed disks

RESOURCES	MONTHLY COST	EST. SAVING	EFFORT	RISK	CONFIDENCE
6	€83	€83	Low	Low	High

WHY IT MATTERS

Disks not attached to any VM are billed at the full provisioned rate.

RECOMMENDED ACTION

Snapshot disks with unclear ownership, then delete. A Standard snapshot costs a fraction of a Premium disk.

RESOURCE GROUP	DISK NAME	SIZE (GB)	CREATED	MONTHLY COST
rg-analytics-partner1-dev-euw	partner1aef1vm2-osdisk-20221219-081904-bck	127	2025-05-30	€15.12
rg-analytics-ots-dev-euw	managedsnapshot	127	2025-06-06	€15.12
rg-engineering-dev-euw	testanalytics01_OsDisk_1_ec0b8de966c34289a6e76f36d773cc92	127	2025-06-12	€15.12
rg-engineering-dev-euw	demotisla001_1be679ac665241d6a20cb062c2f9ec69	127	2025-06-12	€15.12
rg-engineering-dev-euw	devopsapc002_497b71d67d084083b3b4d4f14c92b065	127	2025-06-12	€15.12
rg-monitoring-sm-contoso-test	smtest-dev-datadisk00	64	2024-01-31	€7.83

FINDINGS · O

Optimisation

Resources in active use that are larger or more expensive than the workload needs.

O-01 Underutilised virtual machines

RESOURCES	MONTHLY COST	EST. SAVING	EFFORT	RISK	CONFIDENCE
6	€612	€612	Medium	Medium	High

WHY IT MATTERS

Azure Advisor reports consistently low CPU and memory use on these VMs.

RECOMMENDED ACTION

Resize to the recommended SKU or shut down. Confirm peak usage with the owning team and resize in a maintenance window.

RESOURCE GROUP	VIRTUAL MACHINE	MONTHLY COST
rg-analytics-procopt-apc-dev-euw	contoso-procopt-apc-3-vm	€140.55
rg-analytics-procopt-apc-dev-euw	contoso-procopt-apc-2-vm	€137.31
rg-analytics-procopt-apc-dev-euw	contoso-procopt-apc-1-vm	€126.56
rg-contoso-it-scs-dev-euw	cntdzscs01	€110.60
rg-monitoring-sm-contoso-test	smtest-dev	€61.68
rg-ondemand-assessment-dev	cntdzondem01	€34.81

O-02 Storage accounts on the Hot tier

RESOURCES	MONTHLY COST	EST. SAVING	EFFORT	RISK	CONFIDENCE
48	€573	€344	Medium	Low	Medium

WHY IT MATTERS

Hot is the most expensive tier for stored data. Accounts with infrequent reads pay more than they need to.

RECOMMENDED ACTION

Set the default access tier to Cool where reads are infrequent. Check read and early deletion charges before moving busy accounts.

RESOURCE GROUP	ACCOUNT NAME	LOCATION	SKU	CREATED	MONTHLY COST	EST. SAVING
rg-contoso-payments-dev-euw	sttempdatabase	westeurope	Standard_GRS	2021-05-20	€42.12	€25.27
rg-tap-dev-euw	rgtapdeveuw919f	westeurope	Standard_LRS	2023-05-30	€18.41	€11.05
rg-contoso-it-network-dev-euw	nsgflowlogsdeveuw	westeurope	Standard_LRS	2023-01-19	€17.32	€10.39

RESOURCE GROUP	ACCOUNT NAME	LOCATION	SKU	CREATED	MONTHLY COST	EST. SAVING
rg-analytics-dev-euw	analyticsglobalaibck	westeurope	Standard_LRS	2025-07-11	€14.12	€8.47
rg-contoso-cloud-housekeeping-dev-euw	satest02cntohkdev	westeurope	Standard_LRS	2024-07-18	€12.04	€7.22
rg-contoso-payments-dev-euw	sananotificationdwe	westeurope	Standard_LRS	2023-11-15	€11.49	€6.89
rg-contoso-payments-dev-euw	sanastationdwe	westeurope	Standard_LRS	2023-11-15	€11.42	€6.85
rg-contoso-payments-dev-euw	sanaevchargocpidwe	westeurope	Standard_LRS	2023-11-15	€11.42	€6.85
rg-contoso-payments-dev-euw	sanaevreportingdwe	westeurope	Standard_LRS	2023-11-15	€11.42	€6.85
rg-contoso-payments-dev-euw	sanaevchargingdwe	westeurope	Standard_LRS	2023-11-14	€11.42	€6.85
rg-contoso-payments-dev-euw	sanaevchargprovdwe	westeurope	Standard_LRS	2023-11-15	€11.42	€6.85
rg-contoso-payments-dev-euw	sanatransactiondwe	westeurope	Standard_LRS	2023-11-15	€11.41	€6.85
rg-contoso-payments-dev-euw	sanacustomerdwe	westeurope	Standard_LRS	2023-11-15	€11.41	€6.85
rg-contoso-payments-dev-euw	sanalogdwe	westeurope	Standard_LRS	2023-11-15	€11.41	€6.85
rg-contoso-payments-dev-euw	sanapsddwe	westeurope	Standard_LRS	2023-11-14	€11.41	€6.85
rg-contoso-payments-dev-euw	sanamarketingdwe	westeurope	Standard_LRS	2023-11-15	€11.40	€6.84
rg-contoso-payments-dev-euw	sanarefuellingdwe	westeurope	Standard_LRS	2023-11-14	€11.40	€6.84
rg-contoso-payments-dev-euw	sanawashdwe	westeurope	Standard_LRS	2023-11-15	€11.40	€6.84
rg-contoso-payments-dev-euw	sanacardazuredwe	westeurope	Standard_LRS	2023-11-14	€11.40	€6.84
rg-contoso-payments-dev-euw	sanawashmachinedwe	westeurope	Standard_LRS	2023-11-15	€11.40	€6.84
rg-contoso-payments-dev-euw	sanacampaigndwe	westeurope	Standard_LRS	2023-11-15	€11.40	€6.84
rg-contoso-payments-dev-euw	sanaemablerdwe	westeurope	Standard_LRS	2026-01-21	€11.40	€6.84
rg-contoso-payments-dev-euw	sanabenefitdwe	westeurope	Standard_LRS	2023-11-15	€11.40	€6.84

RESOURCE GROUP	ACCOUNT NAME	LOCATION	SKU	CREATED	MONTHLY COST	EST. SAVING
rg-contoso-payments-dev-euw	sanarfiddwe	westeurope	Standard_LRS	2023-11-15	€11.40	€6.84
rg-contoso-payments-dev-euw	stfnesmpuserreportdwe	westeurope	Standard_LRS	2023-05-31	€11.23	€6.74
rg-analytics-dev-euw	analyticsdemo005bck	westeurope	Standard_LRS	2025-07-11	€11.16	€6.70
rg-contoso-payments-dev-euw	stinesmpevchargingdwe	westeurope	Standard_LRS	2022-12-09	€11.06	€6.64
rg-contoso-payments-dev-euw	stfnesmponlinesubdwe	westeurope	Standard_LRS	2021-04-28	€10.99	€6.59
rg-contoso-payments-dev-euw	stfnesmpereceiptsubdwe	westeurope	Standard_LRS	2021-04-28	€10.99	€6.59
rg-contoso-payments-dev-euw	stfnesmpphutildwe	westeurope	Standard_LRS	2022-08-25	€10.87	€6.52
cloudsandbox	stcontoso01	westeurope	Standard_LRS	2021-09-24	€10.68	€6.41
rg-contoso-payments-dev-euw	stcontosopayments2devstat	westeurope	Standard_LRS	2022-11-16	€10.63	€6.38
rg-contoso-payments-dev-euw	stnesmpnapadwe	westeurope	Standard_LRS	2022-11-21	€10.56	€6.34
rg-contoso-it-dataapp-dev-euw	stdataappdeveuw	westeurope	Standard_LRS	2022-10-17	€10.56	€6.34
rg-contoso-it-eform-dev-euw	rgcontosoiteformdeveu8236	westeurope	Standard_LRS	2022-08-26	€10.53	€6.32
rg-extapi-dev-euw	stapibusterbu	westeurope	Standard_LRS	2025-04-29	€10.50	€6.30
rg-tap-dev-euw	rgtapdeveuwbe76	westeurope	Standard_LRS	2025-01-20	€10.47	€6.28
rg-tap-dev-euw	rgtapdeveuwb8be	northeurope	Standard_LRS	2024-12-11	€10.47	€6.28
rg-das-doc-handler-poc-dev-euw	dochandlerproject2025	westeurope	Standard_LRS	2025-03-19	€10.47	€6.28
rg-identity-dev-euw	stidentitydev	westeurope	Standard_LRS	2023-11-06	€10.47	€6.28
rg-contoso-payments-dev-euw	sanastationdatadwe	westeurope	Standard_LRS	2023-11-15	€10.47	€6.28
rg-contoso-payments-dev-euw	sanaphutildwe	westeurope	Standard_LRS	2023-05-29	€10.47	€6.28
rg-contoso-payments-dev-euw	sanauserreportdwe	westeurope	Standard_LRS	2023-05-29	€10.47	€6.28

RESOURCE GROUP	ACCOUNT NAME	LOCATION	SKU	CREATED	MONTHLY COST	EST. SAVING
rg-procurement-dev-euw	storagecontosoprocurementdev	westeurope	Standard_RAGRS	2024-10-03	€10.47	€6.28
rg-analytics-dev-euw	demoanalyticsteststbck	westeurope	Standard_LRS	2025-07-11	€10.47	€6.28
rg-contoso-payments-dev-euw	stfnesmpphdwe	westeurope	Standard_LRS	2022-07-11	€10.38	€6.23
rg-tap-dev-euw	rgtapdeveuw9152	westeurope	Standard_LRS	2025-01-19	€10.38	€6.23
rg-monitoring-sm-contoso-test	stdemotesteuw001	westeurope	Standard_LRS	2026-03-05	€7.72	€4.63

FINDINGS · P

Pricing

The same resources on a cheaper pricing model. Savings are large, but each item needs validation before acting.

P-01 Spot pricing candidates

RESOURCES	MONTHLY COST	EST. SAVING	EFFORT	RISK	CONFIDENCE
15	€1,899	€1,139 overlaps other findings	Medium	Medium	To validate

WHY IT MATTERS

Non production VMs run on pay as you go pricing. Spot capacity is heavily discounted but can be evicted at short notice.

RECOMMENDED ACTION

Pilot Spot on stateless or easily restarted workloads first. Dev/Test subscription pricing is a lower risk alternative.

Some resources here also appear in a higher saving finding. Savings are not additive across those findings.

RESOURCE GROUP	VM	VM SIZE	CREATED	MONTHLY COST	EST. SAVING
rg-retailapp-dev-euw	cntszretaildb01	Standard_E16bds_v5	2026-02-06	€376.63	€225.98
rg-retailapp-dev-euw	cntdzretailap02	Standard_E16s_v5	2026-01-26	€331.49	€198.89
rg-retailapp-dev-euw	cntqzretailap03	Standard_E8s_v5	2026-02-17	€146.51	€87.91
rg-analytics-procopt-apc-dev-euw	contoso-procopt-apc-3-vm	Standard_D4as_v5	2025-05-29	€140.55	€84.33

RESOURCE GROUP	VM	VM SIZE	CREATED	MONTHLY COST	EST. SAVING
rg-analytics-procopt-apc-dev-euw	contoso-procopt-apc-2-vm	Standard_D4as_v5	2025-05-29	€137.31	€82.39
rg-analytics-procopt-apc-dev-euw	contoso-procopt-apc-1-vm	Standard_D4as_v5	2025-05-29	€126.56	€75.94
rg-contoso-it-dataapp-dev-euw	cntdzprima01	Standard_D4s_v4	2022-10-13	€113.65	€68.19
rg-contoso-it-scs-dev-euw	cntdzscs01	Standard_D4s_v4	2023-03-07	€110.60	€66.36
rg-identity-dev-euw	cntwzidentity01	Standard_D4s_v4	2023-10-30	€110.46	€66.28
rg-contoso-it-dataapp-dev-euw	cntdzprima02	Standard_E2s_v4	2022-12-20	€94.76	€56.86
rg-cloudconnector-dev-euw	cntdzcloud01	Standard_D2s_v4	2023-08-28	€64.95	€38.97
rg-monitoring-sm-contoso-test	smtest-dev	Standard_D4s_v4	2024-01-31	€61.68	€37.01
rg-identity-dev-euw	cntlzidentity01	Standard_D2s_v4	2023-11-07	€37.92	€22.75
rg-ondemand-assessment-dev	cntdzondem01	Standard_D2s_v5	2026-03-10	€34.81	€20.89
rg-monitoring-sm-contoso-test	testlxsrv02	Standard_D2s_v5	2026-03-19	€10.71	€6.43

FINDINGS · D

Data and storage

Storage tiers, retention and lifecycle rules. Data tends to grow quietly until someone looks.

D-01 Storage accounts without lifecycle rules

RESOURCES	MONTHLY COST	EST. SAVING	EFFORT	RISK	CONFIDENCE
47	€556	€306 overlaps other findings	Medium	Low	Medium

WHY IT MATTERS

Without lifecycle rules, data stays on its original tier indefinitely.

RECOMMENDED ACTION

Add rules that move blobs to Cool after 30 days and Archive after 180, and delete temporary data on expiry.

Some resources here also appear in a higher saving finding. Savings are not additive across those findings.

RESOURCE GROUP	ACCOUNT NAME	LOCATION	CREATED	MONTHLY COST	EST. SAVING
rg-contoso-payments-dev-euw	sttempdatabase	westeurope	2021-05-20	€42.12	€23.17
rg-tap-dev-euw	rgtapdeveuw919f	westeurope	2023-05-30	€18.41	€10.13
rg-analytics-dev-euw	analyticsglobalaibck	westeurope	2025-07-11	€14.12	€7.77

RESOURCE GROUP	ACCOUNT NAME	LOCATION	CREATED	MONTHLY COST	EST. SAVING
rg-contoso-cloud-housekeeping-dev-euw	satest02cntohkdev	westeurope	2024-07-18	€12.04	€6.62
rg-contoso-payments-dev-euw	sananotificationdwe	westeurope	2023-11-15	€11.49	€6.32
rg-contoso-payments-dev-euw	sanaevreportingdwe	westeurope	2023-11-15	€11.42	€6.28
rg-contoso-payments-dev-euw	sanaevchargingdwe	westeurope	2023-11-14	€11.42	€6.28
rg-contoso-payments-dev-euw	sanaevchargocpidwe	westeurope	2023-11-15	€11.42	€6.28
rg-contoso-payments-dev-euw	sanastationdwe	westeurope	2023-11-15	€11.42	€6.28
rg-contoso-payments-dev-euw	sanaevchargprovdwe	westeurope	2023-11-15	€11.42	€6.28
rg-contoso-payments-dev-euw	sanalogdwe	westeurope	2023-11-15	€11.41	€6.28
rg-contoso-payments-dev-euw	sanacustomerdwe	westeurope	2023-11-15	€11.41	€6.28
rg-contoso-payments-dev-euw	sanatransactiondwe	westeurope	2023-11-15	€11.41	€6.28
rg-contoso-payments-dev-euw	sanapsddwe	westeurope	2023-11-14	€11.41	€6.28
rg-contoso-payments-dev-euw	sanacardazuredwe	westeurope	2023-11-14	€11.40	€6.27
rg-contoso-payments-dev-euw	sanamarketingdwe	westeurope	2023-11-15	€11.40	€6.27
rg-contoso-payments-dev-euw	sanarefuellingdwe	westeurope	2023-11-14	€11.40	€6.27
rg-contoso-payments-dev-euw	sanarfiddwe	westeurope	2023-11-15	€11.40	€6.27
rg-contoso-payments-dev-euw	sanabenefitdwe	westeurope	2023-11-15	€11.40	€6.27
rg-contoso-payments-dev-euw	sanawashdwe	westeurope	2023-11-15	€11.40	€6.27
rg-contoso-payments-dev-euw	sanacampaigndwe	westeurope	2023-11-15	€11.40	€6.27
rg-contoso-payments-dev-euw	sanaemablerdwe	westeurope	2026-01-21	€11.40	€6.27
rg-contoso-payments-dev-euw	sanawashmachinedwe	westeurope	2023-11-15	€11.40	€6.27
rg-contoso-payments-dev-euw	stfnesmpuserreportdwe	westeurope	2023-05-31	€11.23	€6.18
rg-analytics-dev-euw	analyticsdemo005bck	westeurope	2025-07-11	€11.16	€6.14
rg-contoso-payments-dev-euw	stinesmpevchargingdwe	westeurope	2022-12-09	€11.06	€6.08
rg-contoso-payments-dev-euw	stfnesmponlinesubdwe	westeurope	2021-04-28	€10.99	€6.04
rg-contoso-payments-dev-euw	stfnesmpereceiptsubdwe	westeurope	2021-04-28	€10.99	€6.04
rg-contoso-payments-dev-euw	stfnesmpphutildwe	westeurope	2022-08-25	€10.87	€5.98
cloudsandbox	stcontoso01	westeurope	2021-09-24	€10.68	€5.87
rg-contoso-payments-dev-euw	stcontosopayments2devstat	westeurope	2022-11-16	€10.63	€5.85
rg-contoso-payments-dev-euw	stnesmpnapadwe	westeurope	2022-11-21	€10.56	€5.81
rg-contoso-it-dataapp-dev-euw	stdataappdeveuw	westeurope	2022-10-17	€10.56	€5.81

RESOURCE GROUP	ACCOUNT NAME	LOCATION	CREATED	MONTHLY COST	EST. SAVING
rg-contoso-it-eform-dev-euw	rgcontosoiteformdeveu8236	westeurope	2022-08-26	€10.53	€5.79
rg-extapi-dev-euw	stapibusterbu	westeurope	2025-04-29	€10.50	€5.78
rg-tap-dev-euw	rgtapdeveuwb8be	northeurope	2024-12-11	€10.47	€5.76
rg-tap-dev-euw	rgtapdeveuwbe76	westeurope	2025-01-20	€10.47	€5.76
rg-das-doc-handler-poc-dev-euw	dochandlerproject2025	westeurope	2025-03-19	€10.47	€5.76
rg-procurement-dev-euw	storagecontosoprocurementdev	westeurope	2024-10-03	€10.47	€5.76
rg-identity-dev-euw	stidentitydev	westeurope	2023-11-06	€10.47	€5.76
rg-contoso-payments-dev-euw	sanaphutildwe	westeurope	2023-05-29	€10.47	€5.76
rg-analytics-dev-euw	demoanalyticsteststbck	westeurope	2025-07-11	€10.47	€5.76
rg-contoso-payments-dev-euw	sanauserreportdwe	westeurope	2023-05-29	€10.47	€5.76
rg-contoso-payments-dev-euw	sanastationdatadwe	westeurope	2023-11-15	€10.47	€5.76
rg-contoso-payments-dev-euw	stfnesmpphdwe	westeurope	2022-07-11	€10.38	€5.71
rg-tap-dev-euw	rgtapdeveuw9152	westeurope	2025-01-19	€10.38	€5.71
rg-monitoring-sm-contoso-test	stdemotesteuw001	westeurope	2026-03-05	€7.72	€4.25

FINDINGS · N

Network and architecture

Placement and connectivity issues. Mostly indirect cost, such as data transfer and operational risk.

N-01 Resource groups spanning regions

RESOURCES	MONTHLY COST	EST. SAVING	EFFORT	RISK	CONFIDENCE
12	None	No direct saving	High	Medium	To validate

WHY IT MATTERS

Resources in one group are spread across regions, which blurs ownership and can add data transfer charges.

RECOMMENDED ACTION

Confirm whether the placement is intentional. Consolidate where latency and resilience requirements allow.

RESOURCE GROUP	LOCATIONS	RESOURCES
rg-contoso-apimgmt-dev-weu	westeurope, global	16
rg-procurement-dev-euw	westeurope, global	18

RESOURCE GROUP	LOCATIONS	RESOURCES
rg-contoso-it-scs-dev-euw	westeurope, global	24
cloudsandbox	global, westeurope	4
rg-contoso-cloud-housekeeping-dev-euw	westeurope, global	9
rg-contoso-it-eform-dev-euw	westeurope, global	10
rg-contoso-it-dataapp-dev-euw	westeurope, global	71
rg-contoso-it-network-dev-euw	westeurope, global	178
rg-contoso-payments-dev-euw	westeurope, global	382
networkwatcherrg	westeurope, global	25
rg-analytics-dev-euw	westeurope, northeurope	52
rg-tap-dev-euw	westeurope, global, europe, northeurope	52

FINDINGS · G

Governance and visibility

Tagging, budgets and access hygiene. No direct saving, but needed to keep costs under control after the audit.

G-01 Empty network security groups

RESOURCES	MONTHLY COST	EST. SAVING	EFFORT	RISK	CONFIDENCE
4	None	No direct saving	Low	Low	High

WHY IT MATTERS

Security groups with no rules and no associations. Free, but they clutter security reviews.

RECOMMENDED ACTION

Delete them.

SECURITY GROUP
NSG-SNET-core-Dev-euw
NSG-SNET-monitoring-d04191969
NSG-SNET-partner2-cmx-dev
NSG-SNET-innovation-poc-func-out-Dev-euw

G-02 Resource groups missing required tags

RESOURCES	MONTHLY COST	EST. SAVING	EFFORT	RISK	CONFIDENCE
55	None	No direct saving	Medium	Low	To validate

WHY IT MATTERS

Without owner and cost centre tags, spend cannot be allocated to teams.

RECOMMENDED ACTION

Backfill the missing tags, then enforce them with Azure Policy.

RESOURCE GROUP	MISSING TAGS
RG-CONTOSO-IT-Network-Dev-euw	Environment
RG-CONTOSO-IT-keyvault-euw	Environment
rg-contoso-it-eform-dev-euw	Environment, Owner
rg-contoso-it-scs-dev-euw	Environment, Owner
rg-contoso-it-rsv-dev-euw	Environment, Owner, CostCenter
rg-contoso-it-DataApp-dev-euw	Environment, Owner
RG-CONTOSO-IT-AzureDevOps-Dev-euw	Environment, Owner
rg-analytics-partner3-dev-euw	Environment, Owner
rg-analytics-procopt-apc-dev-euw	Environment, Owner
rg-analytics-ots-dev-euw	Environment, Owner
rg-contoso-cloud-housekeeping-dev-euw	Environment, Owner
RG-Contoso-apimgmt-dev-weu	Environment, Owner
rg-contoso-aiplatform-dev-euw	Environment, Owner
RG-Contoso-Payments-Dev-EUW	Environment
rg-webportal-dev-euw	Environment, Owner
rg-testartifact-dev-euw	Environment, Owner, CostCenter
rg-TAP-dev-euw	Environment, Owner
VisualStudioOnline-52ED76DFB5A64B9886AE18411A6857B6	Environment, Owner, CostCenter
rsv-contoso-it-dev-euw	Environment, Owner, CostCenter
rg-webportal-sandbox-euw	Environment, Owner
rg-monitoring-test-dev-euw	Environment, Owner
rg-contoso-sap-start-stop-sst-euw	Environment, Owner
rg-contoso-nesdw-Dev-euw	Environment, Owner
RG-Contoso-Payments-TrafficManager-Dev-EUW	Environment
rg-monitoring-sm-contoso-test	Environment, Owner

RESOURCE GROUP	MISSING TAGS
rg-rpsdf-dev-euw	Environment, Owner
rg-ondemand-assessment-dev	Environment, Owner
rg-analytics-pms-dev-euw	Environment, Owner
rg-Hrportal-dev-euw	Environment, Owner
rg-Costmgmt-dev-euw	Environment, Owner
rg-retailapp-dev-euw	Environment, Owner
rg-dochandler-poc-dev-euw	Environment, Owner
rg-cloudconnector-dev-euw	Environment, Owner
rg-partner2-cmx-dev	Environment, Owner
NetworkWatcherRG	Environment
datafactory-rg314	Environment, Owner, CostCenter
CloudSandbox	Environment, Owner
AzureBackupRG_westeurope_1	Environment
dev-D1081000-EMEA-MS2022	Environment, Owner, CostCenter
DefaultResourceGroup-WEU	Environment, Owner, CostCenter
datafactory-rg745	Environment, Owner, CostCenter
rg-defender-continuous-export	Environment, Owner, CostCenter
rg-crm-dev-euw	Environment, Owner
rg-payments-resource-sbx-euw	Environment, Owner
rg-payments-data-dev-euw	Environment, Owner
rg-analytics-partner1-dev-euw	Environment, Owner
rg-analytics-dev-euw	Environment, Owner
rg-analytics-processdemo-dev-euw	Environment, Owner
rg-engineering-dev-euw	Environment, Owner
rg-ExtAPI-dev-euw	Environment, Owner
rg-Distrib-Dev-euw	Environment, Owner
rg-devops-test-dev	Environment, Owner, CostCenter
rg-PROCUREMENT-dev-euw	Environment, Owner
rg-IDENTITY-dev-euw	Environment, Owner
rg-EventMgr-dev-euw	Environment, Owner

G-03 Untagged resources by resource group

RESOURCES	MONTHLY COST	EST. SAVING	EFFORT	RISK	CONFIDENCE
38	None	No direct saving	Medium	Low	To validate

WHY IT MATTERS

Untagged resources hide who owns the cost and make showback reports unreliable.

RECOMMENDED ACTION

Use Azure Policy to inherit tags from resource groups and deny new untagged resources.

RESOURCE GROUP	UNTAGGED	RESOURCE TYPES
defaultresourcegroup-weu	6	microsoft.insights/datacollectionrules (2); microsoft.operationsmanagement/solutions (3); microsoft.operationalinsights/workspaces (1)
rg-contoso-it-azuredevops-dev-euw	7	microsoft.compute/virtualmachines/extensions (2); microsoft.compute/disks (2); microsoft.network/networkinterfaces (1); microsoft.compute/virtualmachines (1); microsoft.devtestlab/schedules (1)
rg-contoso-it-eform-dev-euw	5	microsoft.insights/components (1); microsoft.web/serverfarms (1); microsoft.storage/storageaccounts (1); microsoft.eventgrid/systemtopics (1); microsoft.web/sites (1)
rg-contoso-cloud-housekeeping-dev-euw	5	microsoft.operationalinsights/workspaces (1); microsoft.eventgrid/systemtopics (2); microsoft.storage/storageaccounts (1); microsoft.keyvault/vaults (1)
rg-ondemand-assessment-dev	8	microsoft.compute/disks (2); microsoft.compute/virtualmachines/extensions (4); microsoft.operationalinsights/workspaces (1); microsoft.insights/datacollectionrules (1)
rg-cloudconnector-dev-euw	10	microsoft.compute/virtualmachines (1); microsoft.compute/virtualmachines/extensions (6); microsoft.compute/disks (2); microsoft.network/networkinterfaces (1)
rg-analytics-partner1-dev-euw	11	microsoft.compute/disks (6); microsoft.network/networkinterfaces (2); microsoft.compute/virtualmachines/extensions (1); microsoft.compute/virtualmachines (2)
rg-webportal-dev-euw	8	microsoft.web/staticsites (5); microsoft.network/networkinterfaces (1); microsoft.network/privateEndpoints (1); microsoft.cognitiveservices/accounts (1)
rg-contoso-apimgmt-dev-weu	10	microsoft.web/connections (3); microsoft.web/sites (1); microsoft.operationalinsights/workspaces (1); microsoft.web/serverfarms (1); microsoft.sql/servers/databases (2); microsoft.insights/components (1); microsoft.operationsmanagement/solutions (1)
cloudsandbox	4	microsoft.resourcegraph/queries (2); microsoft.storage/storageaccounts (1); microsoft.eventgrid/systemtopics (1)
rg-contoso-aiplatform-dev-euw	1	microsoft.web/staticsites (1)
rg-contoso-payments-trafficmanager-dev-euw	1	microsoft.network/trafficmanagerprofiles (1)
rg-webportal-sandbox-euw	1	microsoft.web/staticsites (1)
rg-contoso-it-rsv-dev-euw	1	microsoft.recoveryservices/vaults (1)
rg-extapi-dev-euw	1	microsoft.storage/storageaccounts (1)
rg-crm-dev-euw	3	microsoft.keyvault/vaults (1); microsoft.eventgrid/systemtopics (1); microsoft.web/serverfarms (1)

RESOURCE GROUP	UNTAGGED	RESOURCE TYPES
rg-das-doc-handler-poc-dev-euw	3	microsoft.storage/storageaccounts (1); microsoft.cognitiveservices/accounts (1); microsoft.eventgrid/systemtopics (1)
datafactory-rg745	1	microsoft.datafactory/factories (1)
rg-contoso-it-keyvault-euw	2	microsoft.eventgrid/systemtopics (1); microsoft.keyvault/vaults (1)
rg-engineering-dev-euw	40	microsoft.compute/virtualmachines (5); microsoft.compute/disks (10); microsoft.compute/virtualmachines/extensions (16); microsoft.network/networkinterfaces (9)
rg-analytics-dev-euw	45	microsoft.compute/virtualmachines/extensions (14); microsoft.eventgrid/systemtopics (3); microsoft.compute/disks (10); microsoft.compute/virtualmachines (8); microsoft.migrate/migrateprojects (1); microsoft.network/networkinterfaces (6); microsoft.storage/storageaccounts (3)
rg-identity-dev-euw	26	microsoft.keyvault/vaults (1); microsoft.compute/virtualmachines/extensions (8); microsoft.compute/disks (3); microsoft.network/networkinterfaces (4); microsoft.compute/virtualmachines (2); microsoft.eventgrid/systemtopics (2); microsoft.network/privateEndpoints (3); microsoft.recoveryservices/vaults (1); microsoft.dbformysql/flexibleservers (1); microsoft.managedidentity/userassignedidentities (1)
rg-tap-dev-euw	37	microsoft.operationsmanagement/solutions (3); microsoft.eventgrid/systemtopics (3); microsoft.storage/storageaccounts (3); microsoft.insights/components (4); microsoft.insights/scheduledqueryrules (4); microsoft.web/connections (2); microsoft.web/sites (2); microsoft.operationalinsights/workspaces (4); microsoft.insights/actiongroups (2); microsoft.operationalinsights/querypacks (1); microsoft.web/serverfarms (3); microsoft.managedidentity/userassignedidentities (1); microsoft.servicebus/namespaces (2); microsoft.insights/metricalerts (1); microsoft.powerplatform/accounts (1); microsoft.keyvault/vaults (1)
rg-contoso-it-dataapp-dev-euw	53	microsoft.devtestlab/schedules (2); microsoft.network/privateEndpoints (9); microsoft.storage/storageaccounts (1); microsoft.compute/galleries/images (1); microsoft.network/networkinterfaces (11); microsoft.compute/virtualmachines/extensions (11); microsoft.sql/servers (1); microsoft.insights/components (2); microsoft.managedidentity/userassignedidentities (1); microsoft.compute/galleries/images/versions (1); microsoft.sql/servers/databases (2); microsoft.eventgrid/systemtopics (1); microsoft.web/serverfarms (1); microsoft.compute/galleries (1); microsoft.operationalinsights/workspaces (1); microsoft.web/sites/slots (2); microsoft.web/sites (2); microsoft.compute/disks (1); microsoft.operationsmanagement/solutions (1); microsoft.datafactory/factories (1)
rg-contoso-it-network-dev-euw	136	microsoft.network/privatednszones/virtualnetworklinks (2); microsoft.network/networksecuritygroups (63); microsoft.network/routetables (61); microsoft.network/privateEndpoints (1); microsoft.network/privatednszones (3); microsoft.storage/storageaccounts (1); microsoft.network/virtualnetworks (1); microsoft.network/networkinterfaces (2); microsoft.network/publicipaddresses (1); microsoft.eventgrid/systemtopics (1)
rg-contoso-payments-dev-euw	265	microsoft.network/networkinterfaces (50); microsoft.web/sites/slots (27); microsoft.network/privateEndpoints (59); microsoft.storage/storageaccounts (26); microsoft.certificateregistration/certificateorders (1); microsoft.web/sites (30); microsoft.network/applicationgatewaywebapplicationfirewallpolicies (4); microsoft.sql/servers (10); microsoft.sql/servers/databases (17); microsoft.eventgrid/systemtopics (25); microsoft.operationsmanagement/solutions (2); microsoft.managedidentity/userassignedidentities (3); microsoft.web/serverfarms (5); microsoft.operationalinsights/workspaces (1); microsoft.app/managedenvironments (1); microsoft.cache/redis (1); microsoft.appconfiguration/configurationstores (1); microsoft.insights/actiongroups (1); microsoft.keyvault/vaults (1)
azurebackuprg_westeurope_1	55	microsoft.compute/restorepointcollections (55)
rg-analytics-pms-dev-euw	63	microsoft.compute/disks (15); microsoft.network/networkinterfaces (14); microsoft.compute/virtualmachines/extensions (18); microsoft.compute/virtualmachines (16)

RESOURCE GROUP	UNTAGGED	RESOURCE TYPES
rg-analytics-processdemo-dev-euw	26	microsoft.compute/disks (10); microsoft.compute/virtualmachines (4); microsoft.compute/virtualmachines/extensions (6); microsoft.network/networkinterfaces (6)
rg-analytics-partner3-dev-euw	15	microsoft.network/networkinterfaces (4); microsoft.compute/virtualmachines (4); microsoft.compute/disks (6); microsoft.compute/virtualmachines/extensions (1)
rg-analytics-ots-dev-euw	17	microsoft.compute/virtualmachines/extensions (6); microsoft.compute/virtualmachines (3); microsoft.compute/disks (6); microsoft.network/networkinterfaces (2)
rg-monitoring-sm-contoso-test	13	microsoft.storage/storageaccounts (1); microsoft.compute/disks (3); microsoft.compute/virtualmachines/extensions (4); microsoft.eventgrid/systemtopics (1); microsoft.compute/virtualmachines (2); microsoft.network/networkinterfaces (2)
rg-procurement-dev-euw	13	microsoft.compute/virtualmachinescalesets (1); microsoft.operationsmanagement/solutions (1); microsoft.web/serverfarms (1); microsoft.servicebus/namespaces (1); microsoft.keyvault/vaults (1); microsoft.network/privateEndpoints (2); microsoft.network/networkinterfaces (2); microsoft.insights/components (1); microsoft.operationalinsights/workspaces (1); microsoft.web/staticsites (1); microsoft.eventgrid/systemtopics (1)
rg-contoso-it-scs-dev-euw	17	microsoft.compute/virtualmachines/extensions (7); microsoft.keyvault/vaults (1); microsoft.insights/components (1); microsoft.network/networkinterfaces (2); microsoft.sql/servers/databases (2); microsoft.sql/servers (1); microsoft.network/privateEndpoints (1); microsoft.compute/disks (1); microsoft.operationalinsights/workspaces (1)
rg-hrportal-dev-euw	23	microsoft.web/sites (4); microsoft.network/privateEndpoints (7); microsoft.containerregistry/registries/webhooks (5); microsoft.network/networkinterfaces (6); microsoft.containerregistry/registries (1)
rg-retailapp-dev-euw	26	microsoft.compute/virtualmachines (3); microsoft.compute/disks (7); microsoft.devtestlab/schedules (1); microsoft.compute/virtualmachines/extensions (11); microsoft.network/networkinterfaces (3); microsoft.sqlvirtualmachine/sqlvirtualmachines (1)
networkwatcherrg	20	microsoft.network/networkwatchers/flowlogs (19); microsoft.network/networkwatchers (1)
rg-analytics-procopt-apc-dev-euw	22	microsoft.compute/virtualmachines/extensions (5); microsoft.compute/disks (8); microsoft.network/networkinterfaces (5); microsoft.compute/virtualmachines (4)

FINDINGS · B

Behavioural patterns

Patterns in how teams run resources, such as leaving development machines on overnight.

B-01 Deallocated VMs still paying for disks

RESOURCES	MONTHLY COST	EST. SAVING	EFFORT	RISK	CONFIDENCE
58	€102	€102	Low	Low	High

WHY IT MATTERS

Deallocating a VM stops compute charges, but its disks keep billing.

RECOMMENDED ACTION

Delete VMs that are no longer needed together with their disks. Snapshot first if the data may be needed.

RESOURCE GROUP	VM	DISK NAMES	CREATED	MONTHLY COST
rg-analytics-dev-euw	demort3ots005vm	demort3ots005vm-datadisk-000-20230529-073221, demort3ots005vm-osdisk-20230529-073221	2025-05-29	€101.24
rg-analytics-processdemo-dev-euw	contoso-procopt-apc-7-vm	contoso-procopt-apc-7-vm_DataDisk_0, contoso-procopt-apc-7-vm_OsDisk_1_44c351b3284f41d5a8b074756d1fc891	2025-06-10	€0.91
rg-contoso-it-azuredevops-dev-euw	VMDEVOPSEUW01	VMDEVOPSEUW01_DataDisk_0, VMDEVOPSEUW01_OsDisk_1_7a314241039a4c1db0543a422e63a5cb	2022-05-25	€0.18

Showing 3 of 58 resources. The full list is in the accompanying spreadsheet.

B-02 Development VMs without a shutdown schedule

RESOURCES	MONTHLY COST	EST. SAVING	EFFORT	RISK	CONFIDENCE
15	€1,899	€759 overlaps other findings	Low	Low	High

WHY IT MATTERS

These VMs run around the clock although they are used during working hours.

RECOMMENDED ACTION

Enable auto shutdown or a start and stop schedule. Running 12 hours on weekdays cuts compute hours by around 60%.

Some resources here also appear in a higher saving finding. Savings are not additive across those findings.

RESOURCE GROUP	VM	VM SIZE	CREATED	MONTHLY COST	EST. SAVING
rg-retailapp-dev-euw	cntszretaildb01	Standard_E16bds_v5	2026-02-06	€376.63	€150.65

RESOURCE GROUP	VM	VM SIZE	CREATED	MONTHLY COST	EST. SAVING
rg-retailapp-dev-euw	cntdzretailap02	Standard_E16s_v5	2026-01-26	€331.49	€132.60
rg-retailapp-dev-euw	cntqzretailap03	Standard_E8s_v5	2026-02-17	€146.51	€58.60
rg-analytics-procopt-apc-dev-euw	contoso-procopt-apc-3-vm	Standard_D4as_v5	2025-05-29	€140.55	€56.22
rg-analytics-procopt-apc-dev-euw	contoso-procopt-apc-2-vm	Standard_D4as_v5	2025-05-29	€137.31	€54.92
rg-analytics-procopt-apc-dev-euw	contoso-procopt-apc-1-vm	Standard_D4as_v5	2025-05-29	€126.56	€50.62
rg-contoso-it-dataapp-dev-euw	cntdzprima01	Standard_D4s_v4	2022-10-13	€113.65	€45.46
rg-contoso-it-scs-dev-euw	cntdzscs01	Standard_D4s_v4	2023-03-07	€110.60	€44.24
rg-identity-dev-euw	cntwzidentity01	Standard_D4s_v4	2023-10-30	€110.46	€44.18
rg-contoso-it-dataapp-dev-euw	cntdzprima02	Standard_E2s_v4	2022-12-20	€94.76	€37.90
rg-cloudconnector-dev-euw	cntdzcloud01	Standard_D2s_v4	2023-08-28	€64.95	€25.98
rg-monitoring-sm-contoso-test	smtest-dev	Standard_D4s_v4	2024-01-31	€61.68	€24.67
rg-identity-dev-euw	cntlzidentity01	Standard_D2s_v4	2023-11-07	€37.92	€15.17
rg-ondemand-assessment-dev	cntdzondem01	Standard_D2s_v5	2026-03-10	€34.81	€13.92
rg-monitoring-sm-contoso-test	testlxsrv02	Standard_D2s_v5	2026-03-19	€10.71	€4.28

APPENDIX

Method, scope and assumptions

Scope	One Azure subscription (Contoso Dev). Billing data for 25 March 2025 to 24 March 2026.
Access	Read only. No changes were made to the environment during the assessment.
Data sources	Azure Resource Graph for inventory, Azure Cost Management for billing, Azure Advisor for right sizing recommendations, and Azure Monitor for CPU, memory, network and disk utilisation.
Savings estimates	Each finding applies an action specific savings rate to the resource's average monthly cost over the 12 month window. Provider recommendations are capped at the resource's actual cost.
Effort	Engineering time and coordination needed to make the change.
Risk	The chance of service impact if the change is made without further checks.
Confidence	How strongly utilisation and billing data support the finding. Findings marked to validate rely on assumptions, such as classifying workloads as development by naming and tags.
Currency	All amounts in EUR, excluding VAT.

Questions about a finding?

We are happy to walk your engineers through any item in this pack.

Talha Khalid
Founder, Opsvane
talha@opsvane.com · opsvane.com

This is an illustrative sample report. Contoso Ltd is a fictional organisation, and all names, figures and findings are representative only.