

Virtana Workload Placement Service

“Cloud” migrations to public or private clouds are in full swing. At Virtana, we are keenly aware that enterprises are under tremendous pressure to quickly realize the business benefits promised by cloud migrations.

Virtana Workload Placement Service

Virtana has a proven solution to shorten the migration planning cycle by accelerating completion of key tasks like application discovery, application dependency mapping, move group identification, and cloud cost analysis.

The key? We leverage Virtana Infrastructure Performance Management - the industry-leading infrastructure observability platform - to collect migration data, then apply our data science to arrive at the answers you need to migrate successfully every time.

Our high-fidelity time-series infrastructure inventory and workload data is analyzed using our patented data science algorithm, reducing the time required to provide critical and actionable migration insights.

Our high-velocity and efficient service answers four key migration questions:

Workload placement: Should I move my applications to a private or public cloud?

Application fitness: Will my applications perform as required in a public cloud?

OpEx: How much will it cost me to run my applications in a public cloud?

Cost and fit: Which Cloud Service Provider is the best choice for my applications?

You need answers to these questions before the actual migration is performed. Who can you trust to provide you with accurate answers, and in the shortest amount of time?

The Virtana Advantage - Providing Answers Before Migration

Our Workload Placement Service leverages over 14 years of Virtana experience helping the largest Global 1000 enterprises with Infrastructure Performance Management and Application Workload Analytics.

We de-risk your migration by validating whether your applications are suitable to migrate based on their on- premises performance SLAs and dependencies, the preservation of performance in the cloud, and the estimated cost - all before the migration.

The Virtana Workload Placement Service includes:

- Application discovery using superior, agentless discovery that cuts discovery time in half while accelerating CMDB clean up.
- Accelerated move group definition that separates shared services from business applications and uses community detection and partitions to speed the identification of Easy, Medium, and Hard move groups, creating waves or migration events based on business priorities.
- High-fidelity cloud mapping and cost for Compute, Storage, and Egress Traffic, with percentiles and explanations.

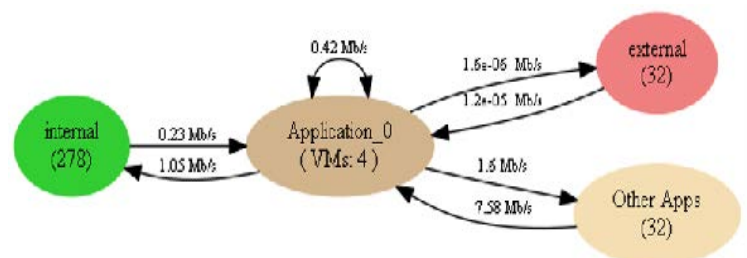


Figure 1: Application Dependencies and Observed Traffic



Delivery Phases

The service is a turnkey solution that includes up to four distinct phases, selected by you, that are designed to reduce complexity and provide clear answers quickly:

1. Discovery: Identify application workload characteristics through agentless application discovery and perform data clean up.
2. Application Dependency Mapping (ADM) and Move Groups: Identify application dependencies and define cost move groups.
3. Cloud Cost: Map costs and configurations for Compute, Storage, and Egress Traffic.
4. Playback: Playback representative synthetic workloads in the cloud to select cost-optimal configurations and placements without compromising performance.

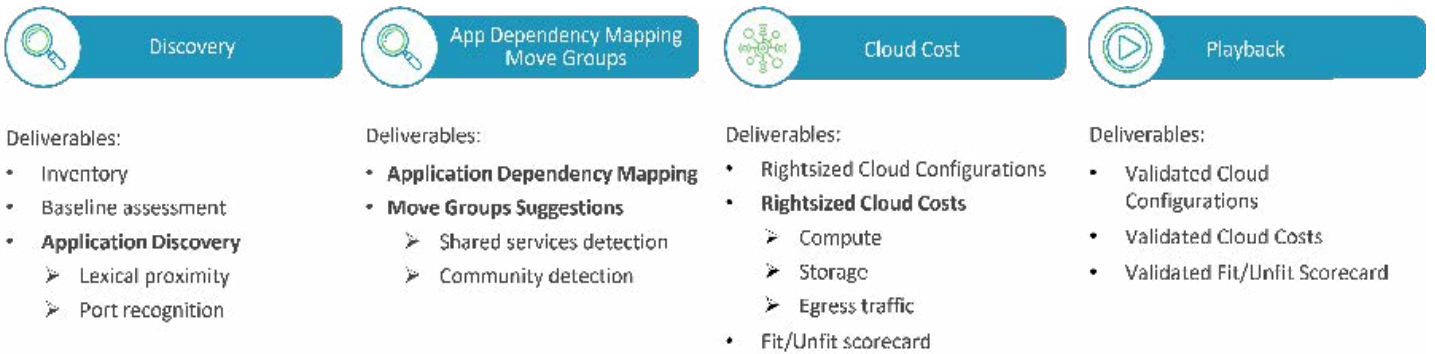


Figure 2: Workload Placement Service Phases and Deliverables

Deliverables

The final deliverables include an on-premises baseline assessment, a list of applications with dependencies, move groups, and a comparison of Cloud Service Provider costs and configurations for each application grouped by percentile.

Application	Compute Name	Entity Type	Instance Fit	Storage Fit	Instance Id	Os Type	Cost Month	Cloud Storage Disks	stor_0 name	Storage name	Storage size	Cost Storage Month	Storage io 0	Storage thp	Cost Month Total	Cost Egress Month	Cost Month All
Orchestration Portal	ORCH-SQLDB-vm-1	Virtual	Pass	Pass	Standard_D8as_v5	linux	247.68	2	CHI-SVF Standard S5DE40	1536	153.6	279	41.49	\$660	\$6,233	\$6,894	
BMC	WPS-GMTE-CM01-v	Virtual	Pass	Pass	Standard_D2_v4	linux	69.12	2	TPX-VC Standard S5DE1	4	0.3	0	0.00	\$79	\$0	\$79	
Single Sign On Portal	SSO-AGENT2vm-1	Virtual	Pass	Pass	Standard_D2_v4	windows	135.36	1	CHI-SR Standard S5DE10	80	9.6	66	5.28	\$145	\$0	\$145	
DataExtraction	Extraction_Loading	Virtual	Pass	Pass	Standard_F4s_v2	linux	121.68	1	CHI-SR Standard S5DE6	50	4.8	1	0.03	\$126	\$0	\$126	
DataExtraction	Extraction_Loading	Virtual	Pass	Pass	Standard_D4_v4	linux	138.24	1	CHI-SR Standard S5DE15	150	19.2	0	0.05	\$157	\$0	\$157	
Backup	Backup1vm-1330s	Virtual	Pass	Pass	Standard_D16s_v5	windows	1082.88	2	CHI-SR Premium S5DP50	2072	495.57	712	20.32	\$2,525	\$594	\$3,119	
Single Sign On Portal	SSO-AGENT2vm-1	Virtual	Pass	Pass	Standard_D2as_v5	windows	128.16	1	CHI-SR Standard S5DE10	80	9.6	20	3.93	\$138	\$0	\$138	
Content Management	Venus-Content-M	Virtual	Pass	Pass	Standard_F8s_v2	linux	243.36	1	CHI-DE Standard S5DE10	100	9.6	5	0.07	\$253	\$9	\$262	
Content Management	Venus-TMS-2016v	Virtual	Pass	Pass	Standard_D2s_v4	windows	135.36	1	CHI-DE Premium S5DP20	512	73.22	1252	38.85	\$209	\$0	\$209	
Business Intel	ORCH-Bus_Intel-0	Virtual	Pass	Pass	Standard_D2_v4	windows	135.36	1	CHI-SVF Standard S5DE10	80	9.6	62	4.59	\$145	\$0	\$145	
Engineering Dev	DEVTEST01vm-140	Virtual	Pass	Pass	Standard_D2as_v5	windows	128.16	1	C-CS-CI Standard S5DE10	80	9.6	210	5.33	\$138	\$7	\$144	
DC	Domain-Controller	Virtual	Pass	Pass	Standard_F4s_v2	windows	234.72	1	CHI-SR Premium S5DP15	256	38.01	513	13.67	\$273	\$4	\$276	
DC	Domain-Controller	Virtual	Pass	Pass	Standard_F4s_v2	windows	234.72	1	CHI-SR Premium S5DP20	512	73.22	1128	11.05	\$308	\$2	\$310	
DataExtraction	Extraction_Loading	Virtual	Pass	Pass	Standard_F4s_v2	linux	121.68	1	CHI-SR Standard S5DE10	100	9.6	1	0.18	\$131	\$0	\$131	
DataExtraction	Extraction_Loading	Virtual	Pass	Pass	Standard_D2as_v5	linux	61.92	1	CHI-SR Standard S5DE6	50	4.8	1	0.03	\$67	\$0	\$67	
Container	Container-02vm-1	Virtual	Pass	Pass	Standard_F4as_v5	linux	162.72	2	CHI-DO Standard S5DE10	100	9.6	11	0.24	\$211	\$2	\$213	
Business Intel	ORCH-Bus_Intel-0	Virtual	Pass	Pass	Standard_D4_v4	windows	270.72	1	CHI-SVF Standard S5DE10	80	9.6	72	5.02	\$280	\$0	\$280	
Container	Container-03vm-1	Virtual	Pass	Pass	Standard_D2_v4	linux	69.12	2	CHI-DO Standard S5DE10	100	9.6	0	0.39	\$117	\$0	\$117	
Control	Control-GMT01vm	Virtual	Pass	Pass	Standard_D2_v4	linux	69.12	2	CHI-CTI Standard S5DE2	5	0.6	0	0.01	\$79	\$10	\$89	
Control	Control-GMT02vm	Virtual	Pass	Pass	Standard_D2_v4	linux	69.12	2	CHI-CTI Standard S5DE2	5	0.6	0	0.01	\$79	\$4	\$83	
Tracking Dev	Global-Positioning	Virtual	Pass	Pass	Standard_E2_v4	linux	90.72	1	CHI-SR Standard S5DE20	500	38.4	2	0.09	\$129	\$0	\$129	
Container	Container-04vm-1	Virtual	Pass	Pass	Standard_D2as_v5	linux	61.92	2	CHI-DO Standard S5DE10	100	9.6	2	0.15	\$130	\$0	\$130	
Tracking Stage	Global-Positioning	Virtual	Pass	Pass	Standard_D4as_v5	linux	123.84	1	CHI-SR Standard S5DE20	500	38.4	77	1.56	\$162	\$0	\$162	
Sputnik	Sputnik1vm-1728	Virtual	Pass	Pass	Standard_D4as_v5	windows	256.32	1	CHI-SR Premium S5DP15	256	38.01	733	22.13	\$294	\$1	\$295	
Container	Container-05vm-1	Virtual	Pass	Pass	Standard_D2as_v5	linux	61.92	2	CHI-DO Standard S5DE10	100	9.6	1	0.03	\$110	\$0	\$110	
Tracking Stage	Global-Positioning	Virtual	Pass	Pass	Standard_D4_v4	linux	138.24	1	CHI-SR Standard S5DE20	500	38.4	71	1.47	\$177	\$0	\$177	
Tracking Stage	Global-Positioning	Virtual	Pass	Pass	Standard_D4as_v5	linux	123.84	1	CHI-SR Standard S5DE20	500	38.4	68	1.47	\$162	\$0	\$162	
Address Book	Main-Address-01	Virtual	Pass	Pass	Standard_F2s_v2	linux	60.91	1	CHI-DE Standard S5DE10	99	9.6	2	0.04	\$71	\$0	\$71	

Figure 3: Example of Cloud Mapping and Cost for Applications and Infrastructure, Grouped by Percentile

Visualize Your Migration Data With Virtana Platform

Your migration data can also be uploaded into our Virtana Platform Workload Placement module so you can easily view dependencies and network traffic between the applications and resources supporting them. You can view your move groups and drill down to see relationships between the move groups and internal and external resources, so you can understand the impact of moving each to the cloud. This option is included with the Workload Placement Service at no additional charge.

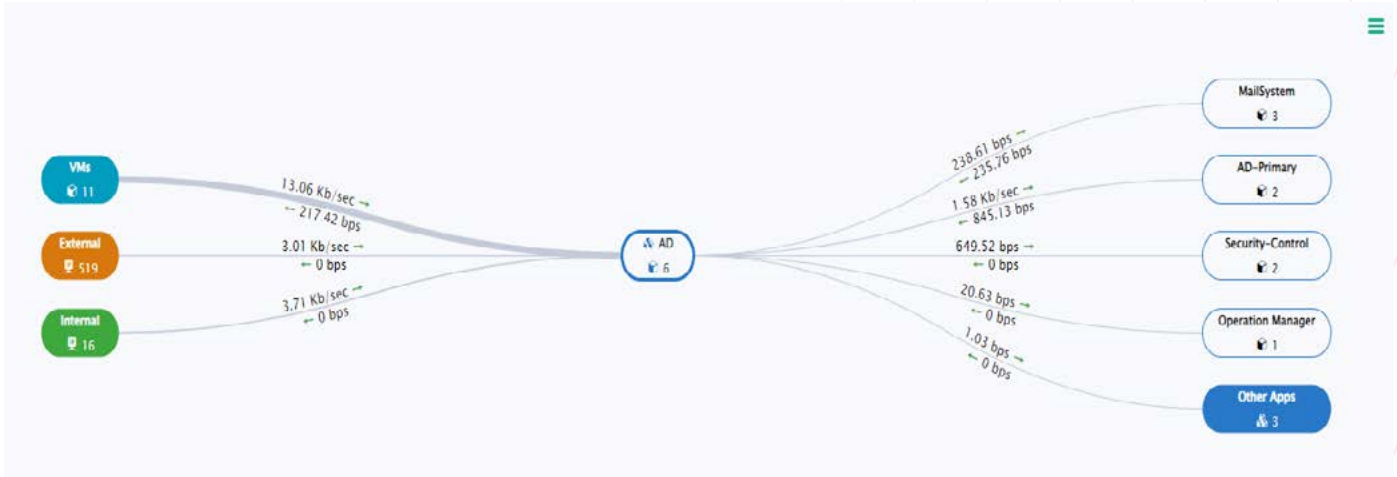


Figure 4: View of Application Dependencies and Traffic

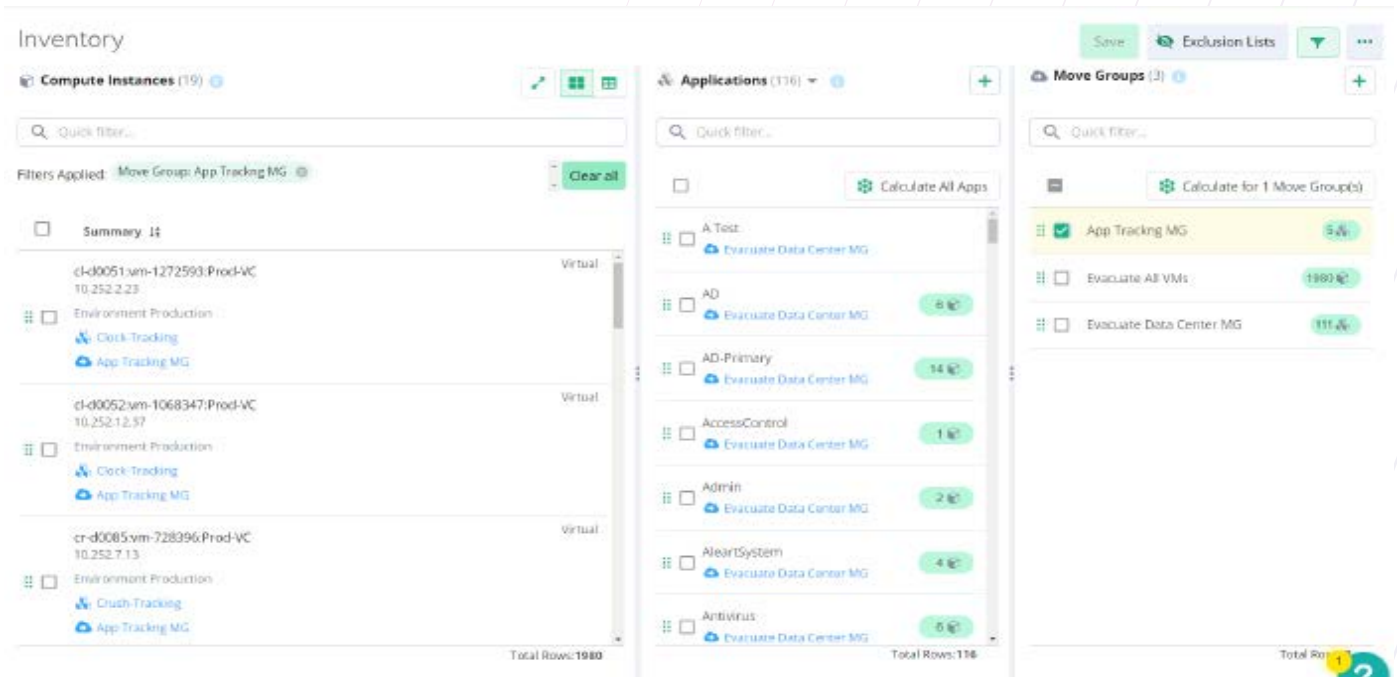


Figure 5: View of Move Group Inventory