

This report provides details about the instance sizing recommendations for the system based on its historical resource utilization, instance costs, reserved instance coverage and policies. The report also includes an impact analysis that models the predicted resource utilization and estimated costs of the system when the recommendations are applied.



Summary

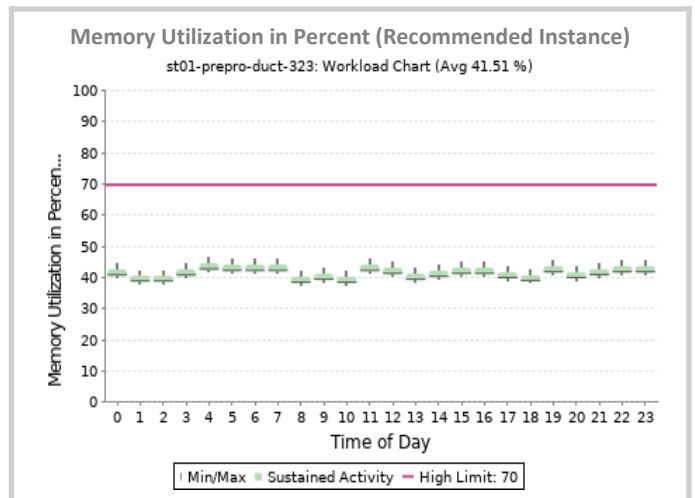
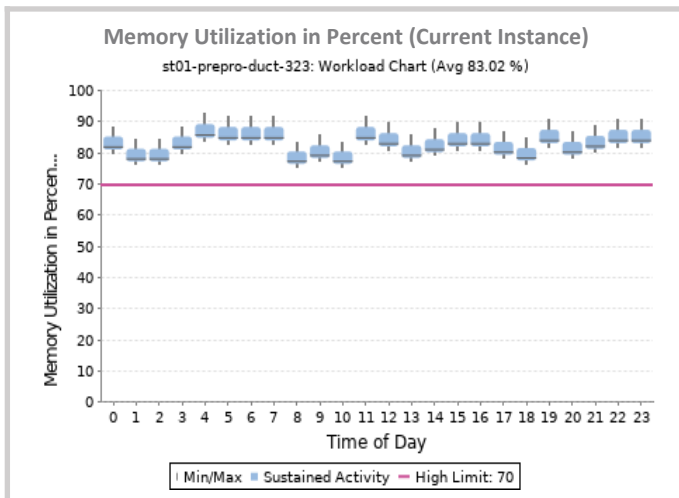
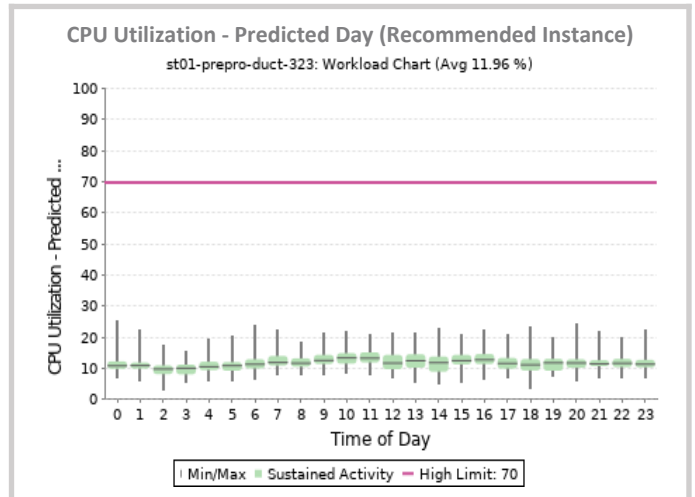
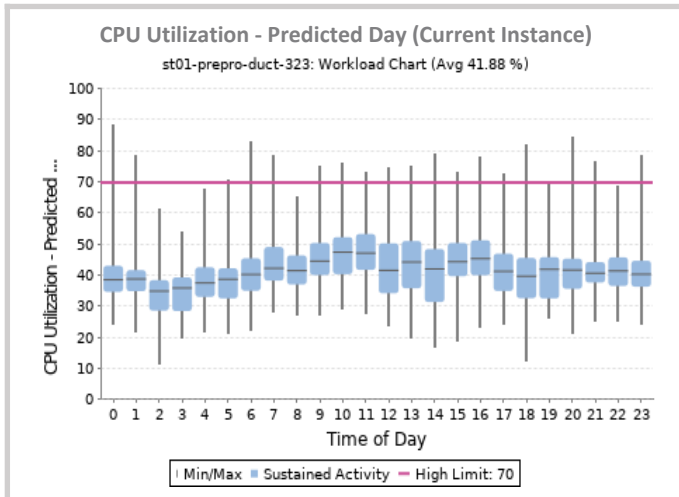
System Name	st01-prepro-duct-323
System ID	st01-prepro-duct-323
Public Cloud	AZURE
Subscription Name	Mobile Services (Pay-Go)
System Type	Virtual Machine instance
Instance Type	standard_a1_v2
Instance OS	Linux
Instance Type Recommendation	Change the instance type from standard_a1_v2 (1x2) to standard_b2s (2x4) [Modernize-Optimal Family].
Predicted Uptime %	100%
Policy	<p>The system has been running for 11 days (264 hours) over a period of 11 days (264 hours). Azure (Mobile_prod)</p> <p>This policy reflects best practices for generating actionable recommendations suitable for production environments where we favor risk reduction over cost savings. Instance resource utilization is modeled using 7 - 60 days of historical workload. When memory usage metrics are not available, 60% is assumed. When downsizing instances, the predicted CPU and memory usage levels must not exceed 50% and 60% respectively. In addition, we consider only opportunities with higher cost savings.</p>

Optimization Benefits

- Estimated savings of \$1.02 per month (3.2%)
- Run workload on newer generation hosting infrastructure
- Run workload on instance family with well suited compute and memory resources

Predicted Utilization (CPU & Memory)

Utilization Metrics	standard_a1_v2 (Current)	standard_b2s (Recommended)	Change
CPU Utilization (%)	88	25.1	↓ 62.9
Memory Utilization (%)	89.3	44.7	↓ 44.7



 **System Information**

System Name	st01-prepro-duct-323
System ID	st01-prepro-duct-323
Azure Subscription	bc009556-bc00-4d00-00bc-bc03322990d3
Azure Subscription Name	Mobile Services (Pay-Go)
System Type	Virtual Machine instance
Instance Type	standard_a1_v2
Instance OS	Linux
Department	Mobile
Owner	Francis Robinson
Region	eastus
Availability Zone	eastus+group
Business Unit	Mobile
Application	Mobile_Prod
Operational Environment	Prod
Inventory Code	-
Project	-
Cost Center	-
Product Code	-
Creation Date	-
State	Running
Start Date	-

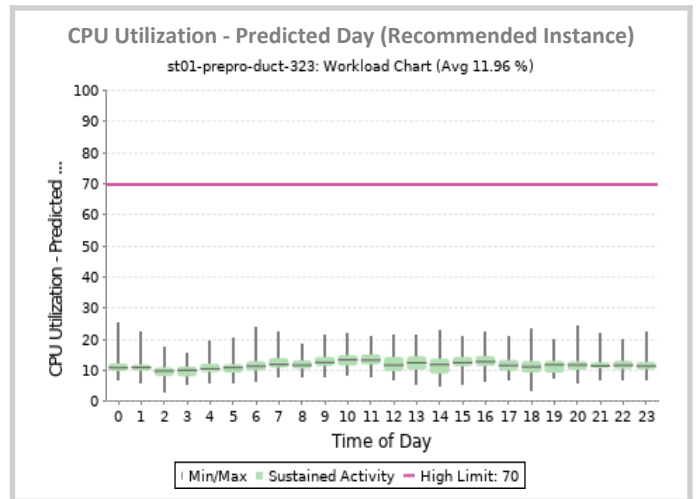
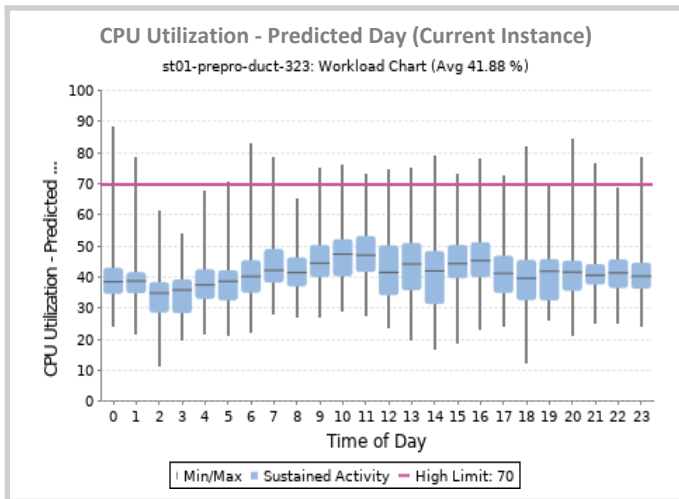
Recommendation Details

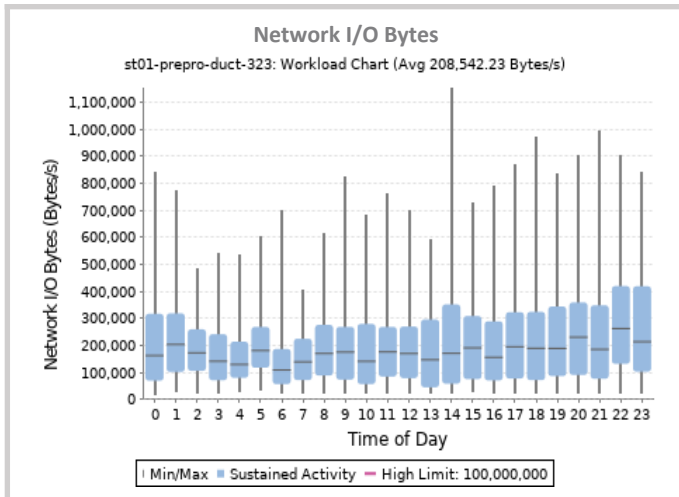
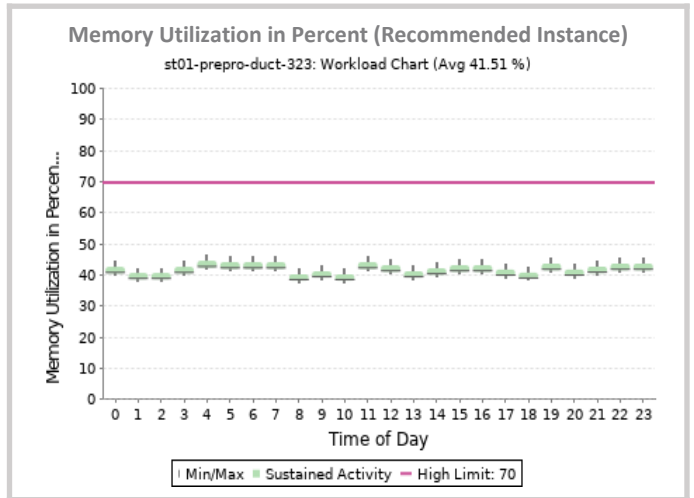
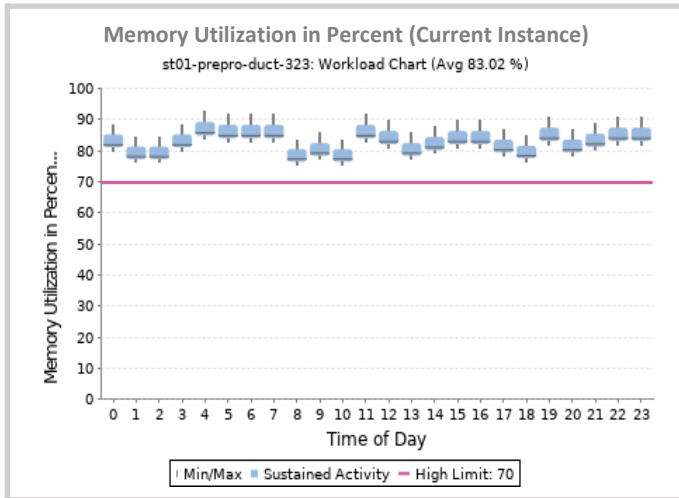
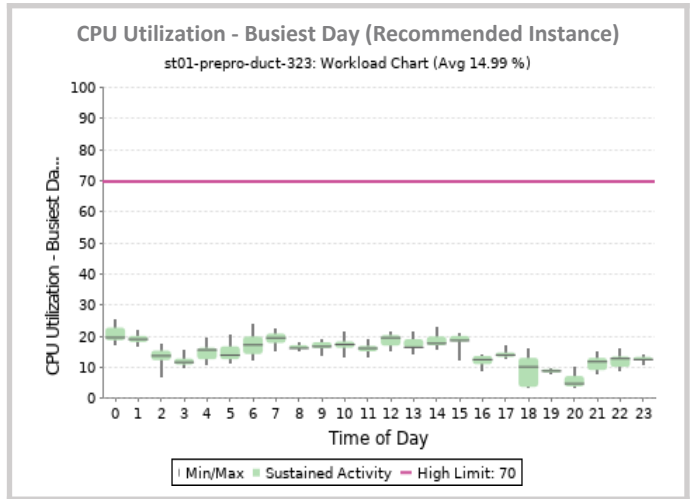
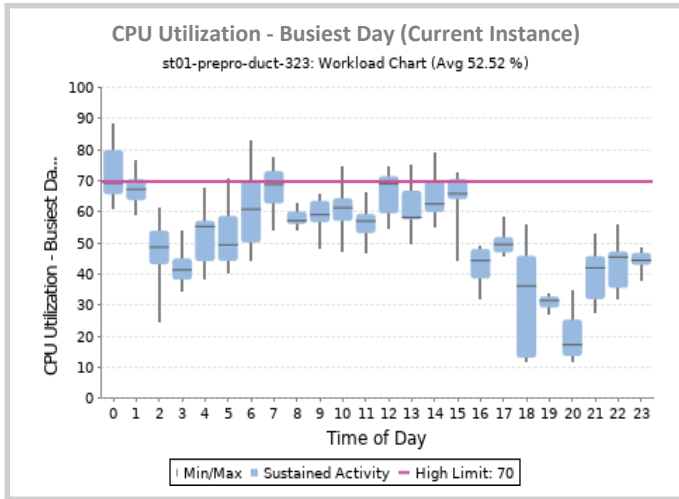
Resource Utilization Impact


Utilization Metrics	standard_a1_v2 (Current)	standard_b2s (Recommended)	Change
CPU Utilization (%)	88	25.1	↓ 62.9
Memory Utilization (%)	89.3	44.7	↓ 44.7
Network IO Throughput (MB/s)	0.6	0.6	—
Disk IO Throughput (MB/s)	<0.1	<0.1	—

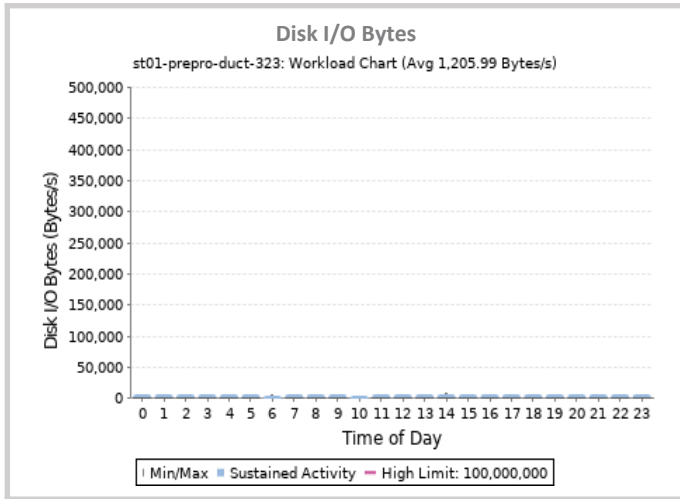
Resource Allocation Comparison

Resource Type	standard_a1_v2 (Current)	standard_b2s (Recommended)	Change
CPU Count	1	2	↑ 1
CPU Benchmark	13.5	47.3	↑ 33.8
Memory Allocation (GB)	2	4	↑ 2
Max Network IO Throughput (MB/s)	29.8	119.2	↑ 89.4
Local Storage Size (GB)	10	8	↓ 2
Max Local Disk IO Throughput (MB/s)	19.1	14.3	↓ 4.8
Max Local Disk IO Operations (IOPS)	1,000	1,280	↑ 280






 [Recommended instance type has been validated to support predicted utilization]



[Recommended instance type has been validated to support predicted utilization]

Effort to Optimize Instance Type

Effort: Low

Rule Description	Impact on Effort	Property	Instance Property Value	
			Current	Recommended
Changing into Different Instance Family and Newer Generation	Small (3%)	Catalog Model - Instance Generation	3	4
Going from non-burstable into burstable	Small (2%)	Catalog Model - Base Performance	-	9.46

Cost Impact

Current Monthly Cost	\$31.39 Cost is based on on-demand price and predicted uptime.
Recommended Cost	\$30.37 Cost is based on on-demand price and predicted uptime.
Monthly Savings	\$1.02
Savings %	3.2%
Predicted Uptime %	100%

	standard_a1_v2 (Current)	standard_b2s (Recommended)
On-Demand (\$/Month)	31.39	30.37