

A box plot showing the distribution of 'cost' for three different values of  $\alpha$ : 0.1, 0.05, and 0.01. The x-axis is labeled 'cost' and has major ticks at 4, 8, and 16. The y-axis represents the different  $\alpha$  values. The plot shows that as  $\alpha$  decreases, the median cost increases and the variability (interquartile range and whiskers) also increases. The  $\alpha = 0.1$  group has a median cost of approximately 4. The  $\alpha = 0.05$  group has a median cost of approximately 8. The  $\alpha = 0.01$  group has a median cost of approximately 12. Outliers are present for the  $\alpha = 0.05$  and  $\alpha = 0.01$  groups.

$\alpha$	Min (whisker)	Q1	Median	Q3	Max (whisker)	Outliers
0.1	~3.5	~3.8	~4.0	~4.2	~4.5	None
0.05	~7.5	~7.8	~8.2	~8.8	~10.5	~11.5, ~12.5
0.01	~10.5	~11.2	~12.0	~12.8	~15.5	~3.5, ~16.5

