

Private Ad Measurement

Advertising Events

Impressions

Viewing, clicking on, hearing, etc.

- somehow encountering an advertisement

Conversions

Downloading, buying, visiting, etc

— doing something and advertiser hopes you will

What we want to accomplish

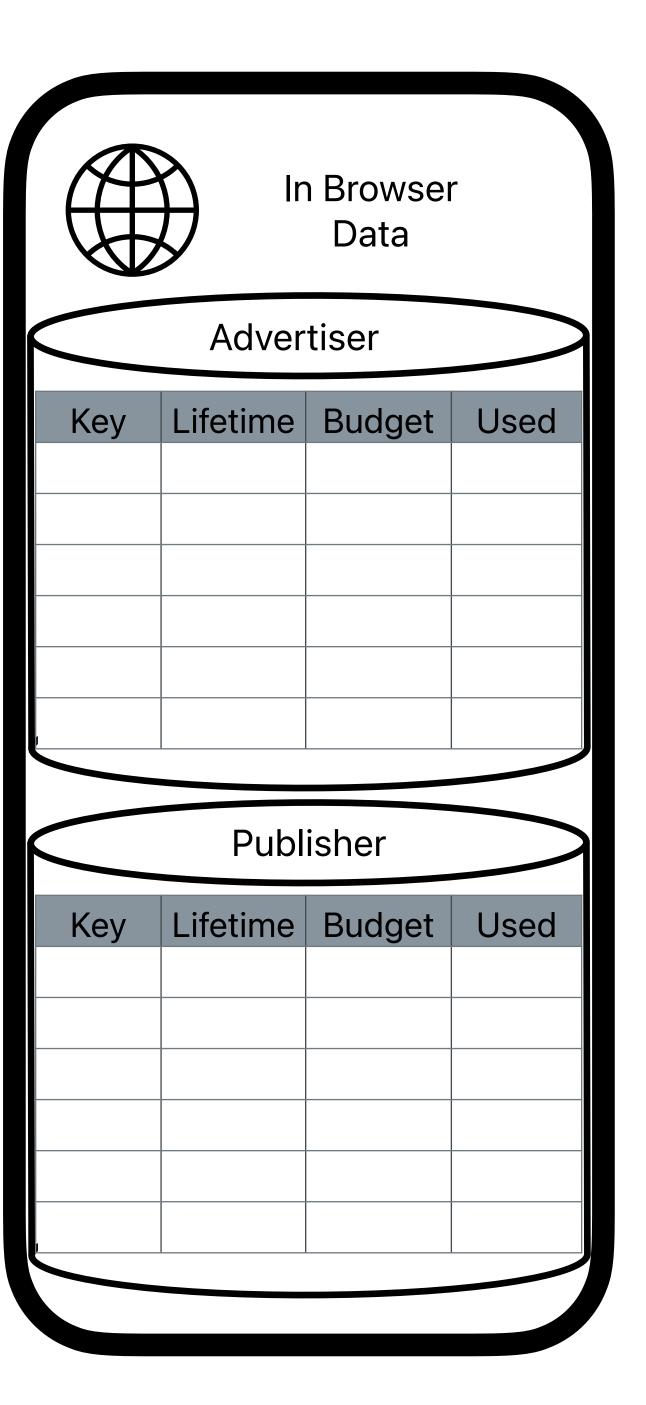
Measuring what fraction of each conversion can be attributed to which advertisements in aggregate

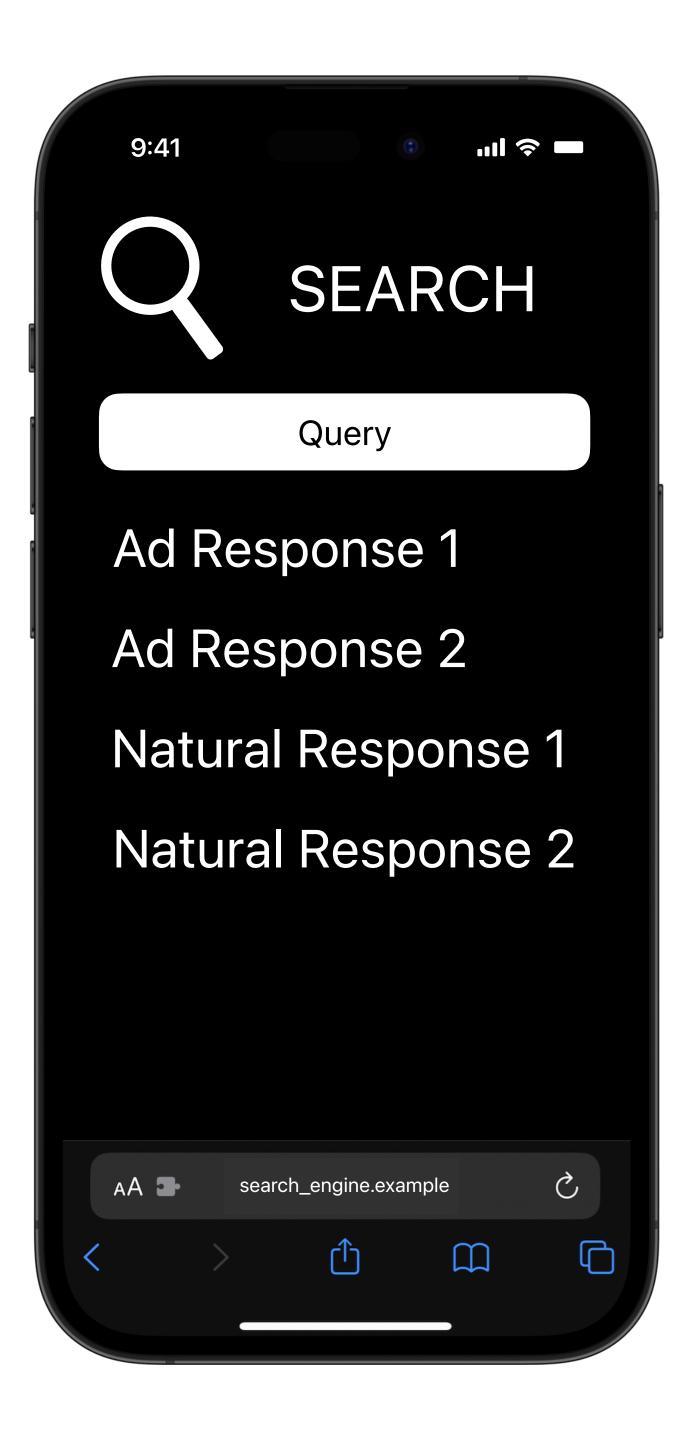
i.e. where advertising dollars are most effective



Ad ID Key	Lifetime	Budget
29c27	7 days	1 allowed use
Publisher Ad ID	Report delay	Budget
4fe3d	1 day	1 allowed use

Ad ID Key	Lifetime	Budget
64066	30 days	2 allowed uses
Publisher Ad ID	Report delay	Budget





Ad ID Key	Lifetime	Budget
29c27	7 days	1 allowed use
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Publisher Ad ID	Report delay	Budget

Ad ID Key	Lifetime	Budget
64066	30 days	2 allowed uses
Publisher Ad ID	Report delay	Budget



Advertiser

Key	Lifetime	Budget	Used
29c27	7	1	0
6406	30	2	0
1			

Key	Delay	Budget	Value
64066	1	1	0
74511	7, 14	2	0
	1		



Ad ID Key	Lifetime	Budget
031f6	14 days	1 allowed use
Publisher Ad ID	Report delay	Budget
6c2f3	2 days	1 allowed use



Advertiser

Key	Lifetime	Budget	Used
29c27	7	1	0
6406	30	2	0

Key	Delay	Budget	Value
64066	1	1	0
74511	7, 14	2	0
1			



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Ad ID Key	Lifetime	Budget
031f6	14 days	1 allowed use
Publisher Ad ID	Report delay	Budget
6c2f3	2 days	1 allowed use



In Browser Data

Advertiser

Key	Lifetime	Budget	Used
29c27	7	1	0
6406	30	2	0
031f6	14	1	0

Key	Delay	Budget	Value
64066	1	1	0
74511	7, 14	2	0
6c2f3	2	1	0
1			



Ad ID Key	Lifetime	Budget
11dc0	90 days	1 allowed use
Publisher Ad ID	Report delay	Budget
6e9d3	1 days	1 allowed use



Advertiser

Key	Lifetime	Budget	Used
29c27	7	1	0
6406	30	2	0
031f6	14	1	0
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Key	Delay	Budget	Value
64066	1	1	0
74511	7, 14	2	0
6c2f3	2	1	0
1			



Ad ID Key	Lifetime	Budget
11dc0	90 days	1 allowed use
Publisher Ad ID	Report delay	Budget
6e9d3	1 days	1 allowed use



Advertiser

Key	Lifetime	Budget	Used
29c27	7	1	0
6406	30	2	0
031f6	14	1	0
11dc0	90	1	0
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Advertiser

Lifetime	Budget	Used
7	1	0
30	2	0
14	1	0
90	1	0
	7 30 14	30 2 14 1

Key	Delay	Budget	Value
64066	1	1	0
74511	7, 14	2	0
6c2f3	2	1	0
6e9d3	1	1	0



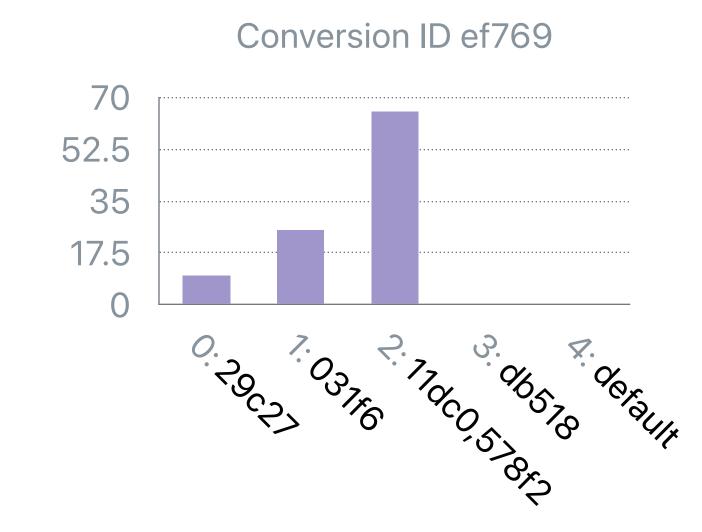
Advertiser

Key	Lifetime	Budget	Used
29c27	7	1	0
6406	30	2	0
031f6	14	1	0
11dc0	90	1	0
1			

Key	Delay	Budget	Value
64066	1	1	0
74511	7, 14	2	0
6c2f3	2	1	0
6e9d3	1	1	0
1			

Conversion Aggregation ID				
ef769				
Histogran	n Mapping			
Ad Join Key	Bin			
29c27	0			
031f6	1			
11dc0	2			
578f2	2			
db518	3			
Budget				
1				
Attribution Logic				
Custom				







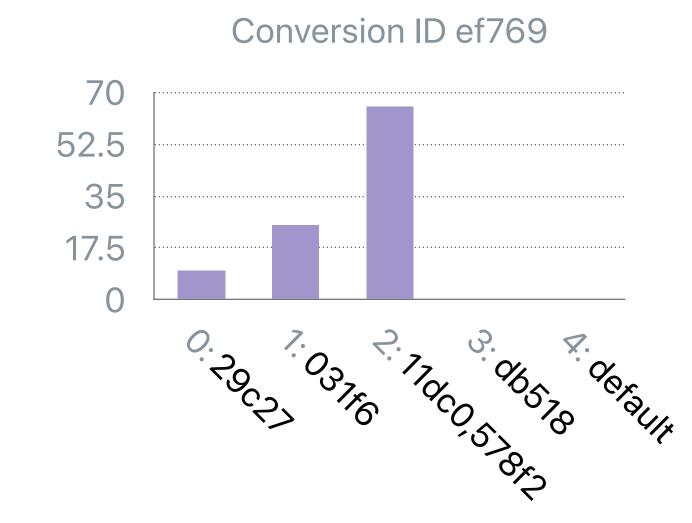
Advertiser

Key	Lifetime	Budget	Used
29c27	7	1	1
6406	30	2	0
031f6	14	1	1
11dc0	90	1	1

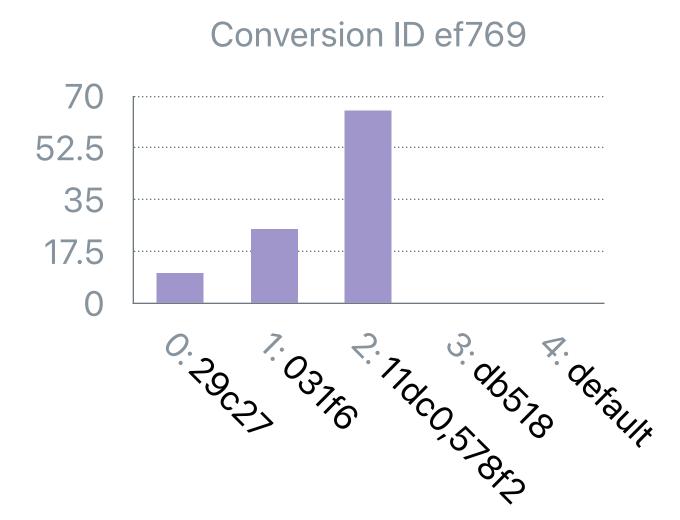
Key	Delay	Budget	Value
64066	1	1	10
74511	7, 14	2	0
6c2f3	2	1	25
6e9d3	1	1	65
1			
	-		

Aggregation ID				
.99.090.001112				
Histogram Mapping				
Bin				
0				
1				
2				
2				
3				
Budget				
Attribution Logic				



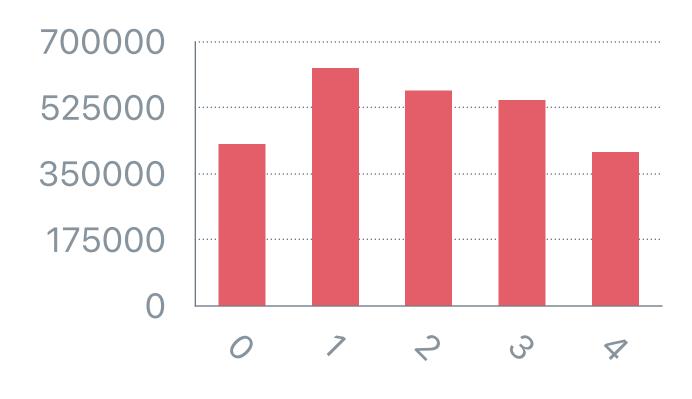




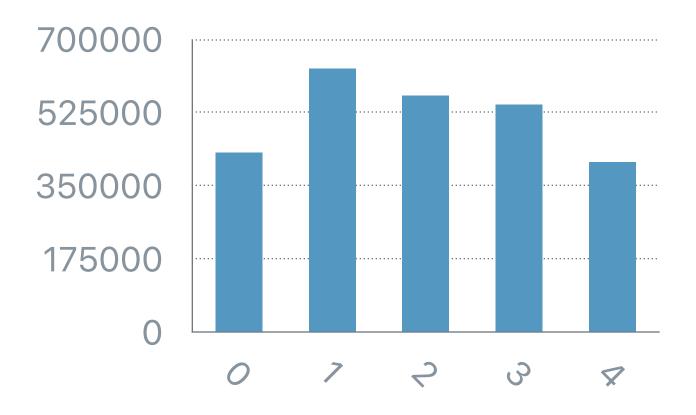


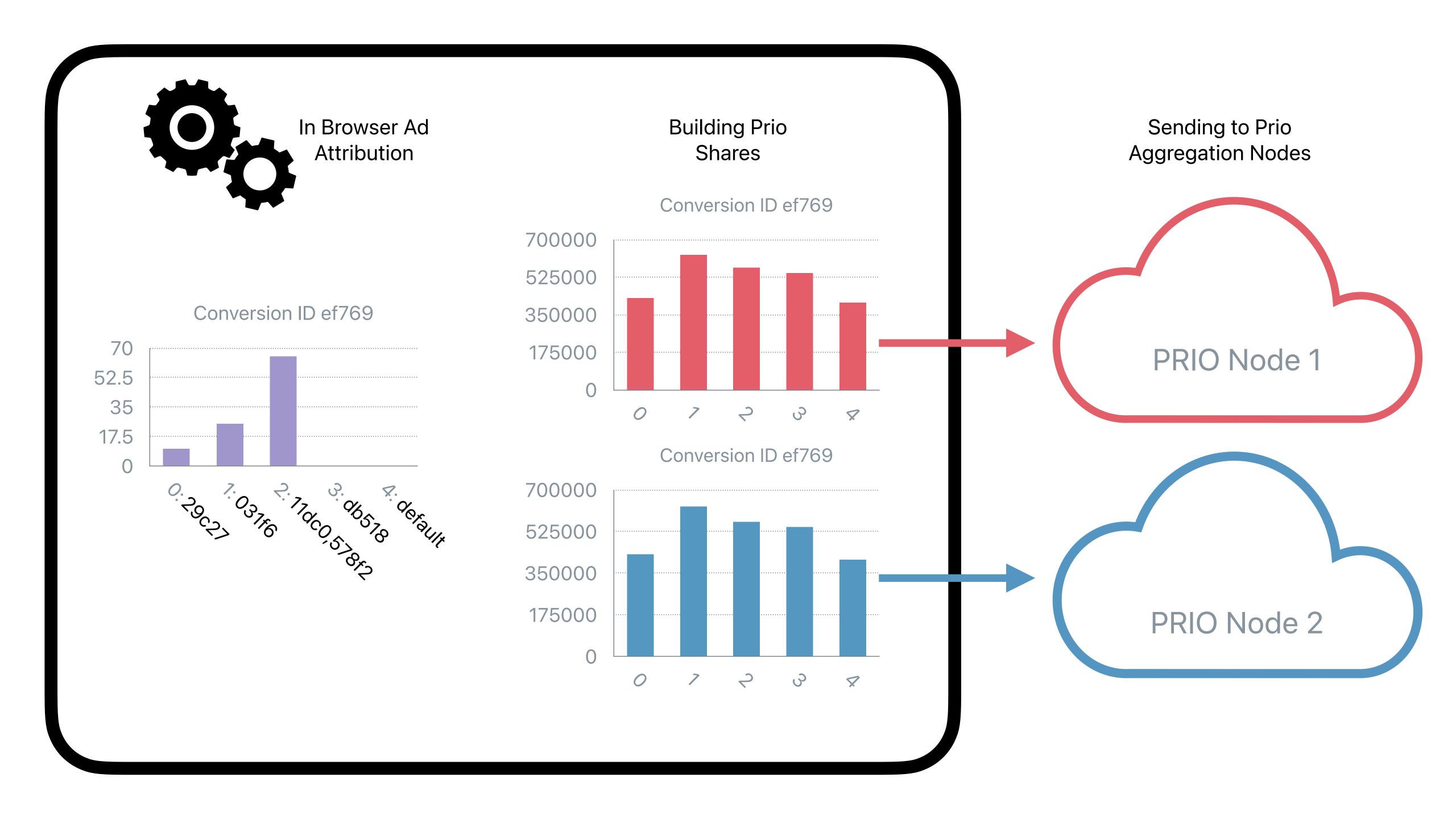
Building Prio Shares

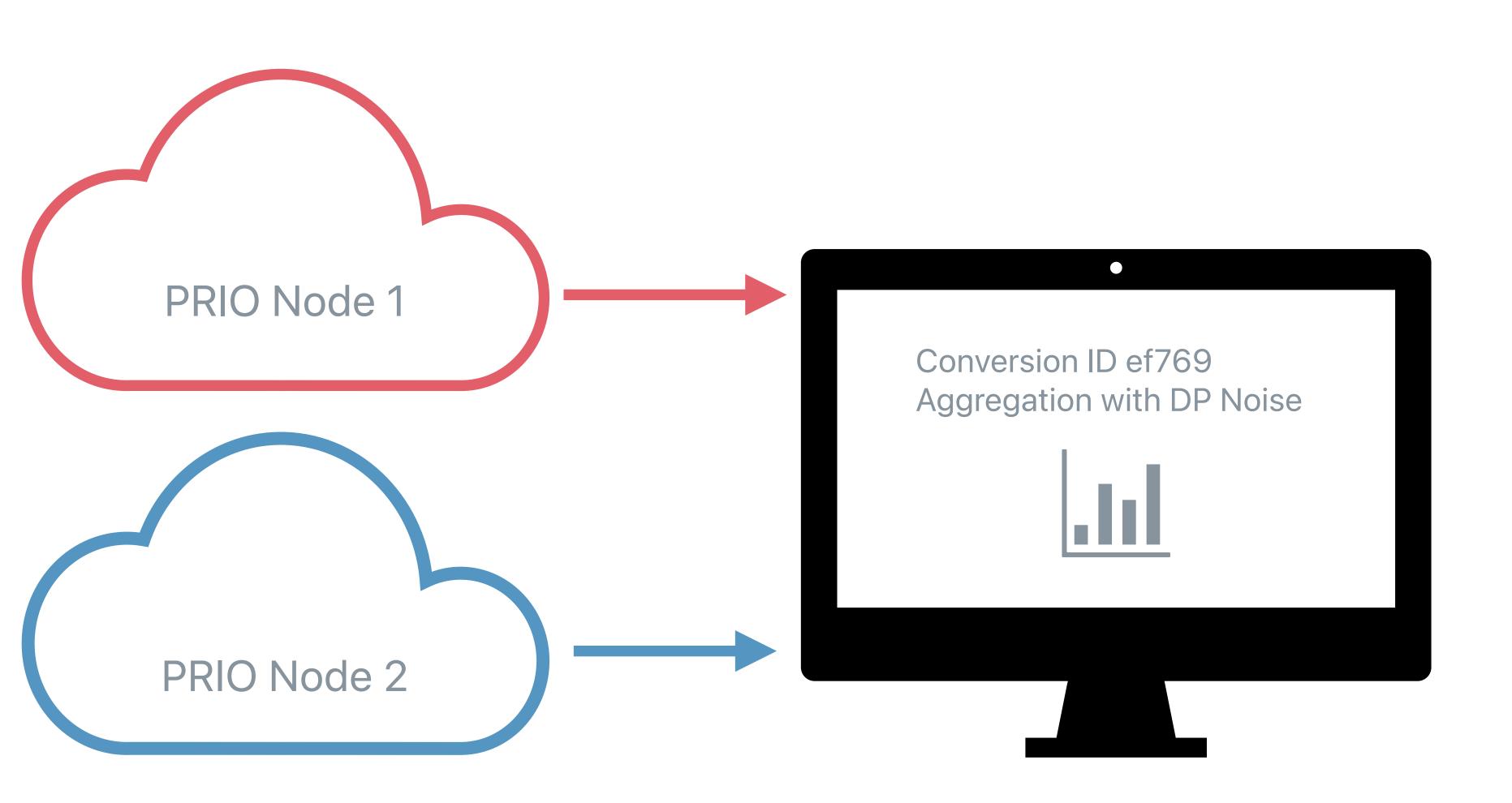




Conversion ID ef769









Advertiser

Key	Lifetime	Budget	Used
29c27	7	1	0
6406	30	2	0
031f6	14	1	0
11dc0	90	1	0
1			

Publisher

Key	Delay	Budget	Value
64066	1	1	10
74511	7, 14	2	0
6c2f3	2	1	25
6e9d3	1	1	65

Delay of 1 day from Ad Impression

