$9^{x} = 3^{y}$ $(4^{x})^{y} = 256^{\frac{1}{2}}$

From the first equation

2x = y (1)

From the second equation

xy = 2 (2) (since $\sqrt{256} = 16$)

Substituting (1) into (2)

Gives

 $2x^2 = 2$

y = ±2