For the given system:
$$\begin{array}{c} x - 2y + z = 0 \\ 2y - 8z = 8 \\ -4x + 5y + 9z = -9 \end{array}$$
the corresponding augmented matrix is:
$$\begin{pmatrix} 1 & -2 & 1 & 0 \\ 0 & 2 & -8 & 8 \\ -4 & 5 & 9 & -9 \end{pmatrix}.$$
Now we apply the elementary row operations on this to have the reduced Echelon form.

By $R_3' \longrightarrow R_3 + 4R_1$
$$\begin{pmatrix} 1 & -2 & 1 & 0 \\ 0 & 2 & -8 & 8 \\ 0 & -3 & 13 & -9 \end{pmatrix}$$

By $R_2' \longrightarrow (\frac{1}{2})R_2$
$$\begin{pmatrix} 1 & -2 & 1 & 0 \\ 0 & 1 & -4 & 4 \\ 0 & -3 & 13 & -9 \end{pmatrix}$$

By $R_3' \longrightarrow R_3 + 3R_2, R_1' \longrightarrow R_1 + 2R_2$
$$\begin{pmatrix} 1 & 0 & -7 & 8 \\ 0 & 1 & -4 & 4 \\ 0 & 0 & 1 & 3 \end{pmatrix}$$

By $R_2' \longrightarrow R_2 + 4R_3, R_1' \longrightarrow R_1 + 7R_3$
$$\begin{pmatrix} 1 & 0 & 0 & 29 \\ 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 3 \end{pmatrix}$$

i.e. the matrix in reduced Echelon form which $\Longrightarrow$ the required solution is $\{x_1 = x = 29, x_2 = y = 16, x_3 = z = 3\}$