



The Linux Foundation hereby certifies that

**Thomas Bucaioni**

has successfully completed

**Shell Scripting Using Bash (SC103-BETA)**

A handwritten signature in black ink, appearing to read 'Jim Zemlin', is positioned above a horizontal line.

**JIM ZEMLIN**, EXECUTIVE DIRECTOR  
THE LINUX FOUNDATION

December 24, 2022

DATE OF COMPLETION

LF-zokbnun0ne

CERTIFICATE ID NUMBER