



Red Hat, Inc. hereby certifies that

ROBERT DE BOCK

has successfully completed all the program requirements and is certified as a

RED HAT CERTIFIED SYSTEM ADMINISTRATOR IN RED HAT OPENSTACK

Red Hat OpenStack Platform 5.0

A handwritten signature in black ink, appearing to read "RR Russell".

RANDOLPH. R. RUSSELL

DIRECTOR, GLOBAL CERTIFICATION PROGRAMS

2015-02-27 - CERTIFICATE NUMBER: 110-347-432

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