



(51) International Patent Classification:

G06F 15/173 (2006.01) *H04L 12/741* (2013.01)
G06F 15/16 (2006.01) *H04L 12/749* (2013.01)
H04L 12/715 (2013.01)

(21) International Application Number:

PCT/SG2014/000410

(22) International Filing Date:

1 September 2014 (01.09.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/873,127 3 September 2013 (03.09.2013) US

(71) Applicant: **NANYANG TECHNOLOGICAL UNIVERSITY** [SG/SG]; 50 Nanyang Avenue, Singapore 639798 (SG).

(72) Inventors: **WEN, Yonggang**; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG).
XIE, Ruitao; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG).

(74) Agent: **WATKIN, Timothy Lawrence Harvey**; Marks & Clerk Singapore LLP, Tanjong Pagar, PO Box 636, Singapore 910816 (SG).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: A METHOD FOR MANAGING A DATA CENTER NETWORK

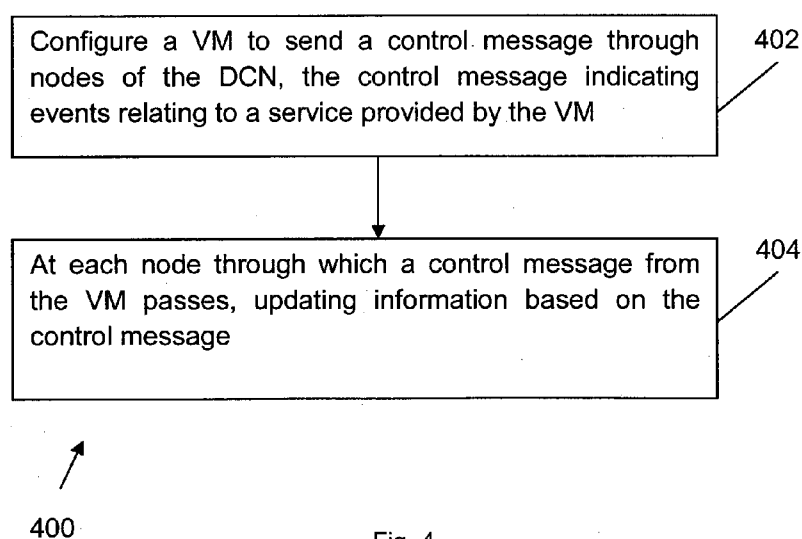


Fig. 4

(57) Abstract: The present invention relates to a method for managing a data center network. The method comprises: sending a control message from a virtual machine through nodes of the data center network, the control message indicating events related to a service associated with the virtual machine; and at each node through which the control message is sent, updating information based on the control message.