S.M.A.R.Tã,¨ãƒ©ãƒ¼ã•§HDDæ•›è£…ã€•RAID-1ãƒªãƒ“ãƒ«ãƒ‰

Category : ã,µãƒ¼ãƒ•ç®¡ç•†æ—¥è¨˜
Published by M-naka on 2011/6/5

Aegis.mythril.ne.jpã•§S.M.A.R.Tã,¨ãƒ©ãƒ¼ã•Œå‡ºã•Ÿã€,
ã,¨ãƒ©ãƒ¼ã•Œå‡ºã•Ÿã•®ã•¯ã,½ãƒ•ãƒˆã,¦ã,§ã,¢RAID-1ã,¢ãƒ¬ã,¤ã•®ç‰‡æ–¹ã•®HDDã€,

S.M.A.R.Tã•¯Self-Monitoring, Analysis and Reporting Technologyã•®ç•¥ã€,
HDDã•®çŠ¶æ…‹ç›£è¦–ã,'ã„ã•£ã•¦ã••ã,Œã•¦ã,‹ã€,

å…·ä½“çš„ã•«å‡ºã•Ÿã•®ã•¯Current Pending Sectorã€•è¦•ã•¯ã,»ã,¯ã,¿ç•°å¸¸ã€,
ã•“ã•®æ™‚ç,¹ã•§ã•¯ã€ŒPendingã€•ã•ªã•®ã•§ã€•åŽ³å¯†ã•«ã•¯ã€Œç•°å¸¸å‰•æ¤œçŸ¥ã€•ã••ã,‰ã•„ã€,å¯¾è±¡ã,»ã,¯ã,¿ã•¯2ã€,

ã•§ã€•è©²å½“ãƒ‰ãƒ©ã,¤ãƒ–ã•®/dev/sdaã,'smartctl --test=long /dev/sdaã•§ãƒ-ãƒ³ã,°ãƒ†ã,¹ãƒˆã,'å®Ÿè¡Œâ€¦â€¦ã•—ã•Ÿã•¨ã•“ã,•ã€•Current Pending Sectorã•Œ65,000è¶…ã•ˆã•«æ¿€å¢—â€¦â€¦ã•¦ã€•å®Œå…¨ã•«ãƒ€ãƒ¡ã•˜ã,ƒã,“ã€,ã,¢ãƒ¬ã,¤ã•®ã,,ã•†ç‰‡æ–¹ã€•/dev/sdbã•«ã•¯ä½•ã•®å••é¡Œã,,ã•ªã•„ã•®ã•«ã•ªãƒ¼ã€,

å¹¸ã•„ã€•Excalibur.mythril.ne.jpã•®åœ°ãƒ‡ã,¸éŒ²ç"»é ˜åŸŸç"¨ã•«ã•¡ã,‡ã•£ã•¨å‰•ã•«è²·ã•£ã•ŸHDDã•Œä¸•èª¿HDDã•¨å®Œå…¨å•Œåž‹ã•®WesternDigitalè£½CaviarGreenï¼ˆ2TBãƒ¢ãƒ‡ãƒ«ï¼‰ã• ã•£ã•Ÿã•®ã•§ã€•å•³ä°¤æ•›ã•—ã•Ÿã€,è¦•é ˜ã•¯ä»¥ä¸‹ã€,

ï¼‘ï¼Ž/dev/sdbã•§èµ·å‹•ã•§ã••ã,‹ã,ˆã•†ã•«ã•™ã,‹
ã€€ãƒ–ãƒ¼ãƒˆãƒ-ãƒ¼ãƒ€ã€ŒGRUBã€•ã•¯/dev/sdaã•«ã•—ã•‹ã,¤ãƒ³ã,¹ãƒˆãƒ¼ãƒ«ã••ã,Œã•¦ã•„ã•ªã•‹ã•£ã•Ÿã•®ã•§ã€•/dev/sdbã•«ã„ã,¤ãƒ³ã,¹ãƒˆãƒ¼ãƒ«ã•™ã,‹ã€,ã•“ã,Œã,'ã•—ã•ªã•„ã•¨/dev/sdaï¼ˆã•«ä½¿ã•£ã•¦ã•„ã,‹HDDï¼‰ã,'å•–ã,Šå¤–ã•™ã•¨èµ·å‹•ã•§ã••ã•ªã••ã•ªã,‹ã•Ÿã,•ã€,

```
  # grub-install /dev/sdb
  grub> root (hd1,0)
  grub> setup (hd1)
```

ï¼’ï¼ŽHDDä°¤æ•›
ã€€ã,·ãƒ£ãƒƒãƒˆãƒ€ã,¦ãƒ³ã•—ã•¦/dev/sdaã,'å•–ã,Šå¤–ã•—ã€•æ–°å"•ã•®HDDã•¨ä°¤æ•›ã•™ã,‹

ï¼“ï¼Žèµ·å‹•ã€•fdiskã•§ãƒ•ã,©ãƒ¼ãƒžãƒƒãƒˆ
ã€€ç‰‡è,ºçŠ¶æ…‹ã•§èµ·å‹•ã•™ã,‹ã€,å…ˆã•šfdiskã•§/dev/sdbã•®é ˜åŸŸãƒ†ãƒ¼ãƒ–ãƒ«ã,'ç¢ºèª•ã••—ã€•æ–°å"•HDDï¼ˆ/dev/sdaï¼‰ã•«å…¨ã••å•Œä¸€ã•®ãƒ'ãƒ¼ãƒ†ã,£ã,·ãƒ§ãƒ³æ§‹é€ ã,'ä½œã,‹ï¼ˆãƒ–ãƒ¼ãƒˆãƒ©ãƒ™ãƒ«ä»˜ã••ã•§ï¼‰ã€,ã,·ãƒªãƒ³ãƒ€æ•°ã•§ãƒ'ãƒ¼ãƒ†ã,£ã,·ãƒ§ãƒ³ã,'ä½œã,‹ã•¨ã•¤ã,Šã•Œã•ªã•„ã€,

ï¼”ï¼Žã,½ãƒ•ãƒˆã,¦ã,§ã,¢RAID-1ã•®ãƒªãƒ“ãƒ«ãƒ‰
ã€€ç‰‡è,ºçŠ¶æ…‹ã•®ãƒ‡ã,£ã,¹ã,¯ã,¢ãƒ¬ã,¤ã•«ä°¤æ•›ã•—ã•ŸHDDã,'è¿½åŠ ã€•RAID-1çŠ¶æ…‹ã,'å¾©æ—§ã••ã•›ã,‹ã€,
ã€€ã€€/sbin/mdadm --manage /dev/md0 --add /dev/sda1

ã€€ã€€/sbin/mdadm --manage /dev/md1 --add /dev/sda2
ã€€ã€€/sbin/mdadm --manage /dev/md2 --add /dev/sda3
ã€€2TBã•ªã•®ã•§ã€•å¤•æ–¹ã,¹ã,¿ãƒ¼ãƒˆã€œç¿Œæ—¥æœªæ˜Žã•¾ã•§æŽ›ã•‹ã•£ã•Ÿã€,

ï¼•ï¼Ž/dev/sdaã•«GRUBã,'ã,¤ãƒ³ã,¹ãƒˆãƒ¼ãƒ«
ã€€è¦•é ˜ã•¯ï¼‘ï¼Žã•¨å•Œã•˜ã€,

ã€€ãƒ‡ãƒ¼ã,¿å–ªå¤±ã•ªã••ã€•ç„¡ä º‹ã•«å¾©æ—§ã€,
ã€€ã•“ã•®ã•,ã•Ÿã,Šã•¯RAID-1ã• ã•‹ã,‰ã•“ã••ã•®å®‰å¿ƒæ„Ÿã€,

ã€€ã•§ã€•å•–ã,Šå¤–ã•—ã•Ÿã,¨ãƒ©ãƒ¼å••ã••ã•¾ã••ã,Šã•®HDDã• ã•Œã€•ã•¾ã• è²·ã•£ã•¦1å¹´ã••ã,‰ã•„ã• ã•Œãƒ•ãƒ«ã,¯å“•ã•ªã•®ã•§è²·ã•£ã•Ÿåº—ã•®ä¿•è¨¼ã•¯ãƒŠã,·ã€,ã•Ÿã• ã€•WesternDigitalã•®RMAï¼ˆReturn Merchandise Authorizationï¼‰ã•ŒåŠ¹ã••ã••ã•†ã€,ã,·ãƒ³ã,¬ãƒ•ãƒ¼ãƒ«ã•¾ã•§é€•ã,‰ã•ªã•„ã•¨ã•„ã•‘ã•ªã•„ã,‰ã•—ã•„ã•Œã€•æ•¨ã•¦ã•¦æ–°å“•ã•³ï¼å…¥ã,ˆã,Šã•¯ä¸-å•¤å“•ã•§ã„ºæ¤›ã•—ã•¦è²°ã•ˆã,‹æ–¹ã•ŒåŠ©ã•‹ã,‹ï¼ˆå¯¿å‘½ã•¯ãƒ•ãƒ¼ã,¿ãƒ¼ã• ã,•ã•†ã•Œï¼‰ã€,ãƒ¢ãƒŽã•¯è©¦ã•—ã€•RMAã•§ãº¤æ››ã•—ã•¦è²°ã•Šã•†ã€,