



响应示例 Element Software

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响应示例

getConfig

getConfig 方法返回类似于以下示例的响应。由于篇幅限制，此响应仅包含集群中一个节点的信息。

```
{
  "id": 1,
  "result": {
    "config": {
      "cluster": {
        "cipi": "Bond10G",
        "cluster": "AutoTest2-Fjqt",
        "encryptionCapable": true,
        "ensemble": [
          "1:10.1.1.0",
          "3:10.1.1.0",
          "4:10.1.1.0"
        ],
        "mipi": "Bond1G",
        "name": "NLABP2605",
        "nodeID": 1,
        "pendingNodeID": 0,
        "role": "Storage",
        "sipi": "Bond10G",
        "state": "Active",
        "version": "11.0"
      },
      "network": {
        "Bond10G": {
          "#default": false,
          "address": "10.1.1.0",
          "auto": true,
          "bond-downdelay": "0",
          "bond-fail_over_mac": "None",
          "bond-miimon": "100",
          "bond-mode": "ActivePassive",
          "bond-primary_reselect": "Failure",
          "bond-slaves": "eth0 eth1",
          "bond-updelay": "200",
          "dns-nameservers": "10.1.1.0, 10.1.1.0",
          "dns-search": "ten.test.company.net., company.net.",
          "family": "inet",
          "gateway": "10.1.1.0",
```

```

        "linkSpeed": 10000,
        "macAddress": "c8:1f:66:ee:59:b9",
        "macAddressPermanent": "00:00:00:00:00:00",
        "method": "static",
        "mtu": "9000",
        "netmask": "255.255.240.0",
        "network": "10.1.1.0",
        "physical": {
            "address": "10.1.1.0",
            "macAddress": "c8:1f:66:ee:59:b9",
            "macAddressPermanent": "00:00:00:00:00:00",
            "mtu": "9000",
            "netmask": "255.255.240.0",
            "network": "10.1.1.0",
            "upAndRunning": true
        },
        "routes": [],
        "status": "UpAndRunning",
        "symmetricRouteRules": [
            "ip route add 10.1.1.1/20 dev Bond1G src 10.1.2.2
table Bond1G",
            "ip rule add from 10.1.1.1 table Bond1G",
            "ip route add default via 10.1.1.254"
        ],
        "upAndRunning": true,
        "virtualNetworkTag": "0"
    },
    "eth0": {
        "auto": true,
        "bond-master": "Bond10G",
        "family": "inet",
        "linkSpeed": 10000,
        "macAddress": "c8:1f:66:ee:59:b9",
        "macAddressPermanent": "c8:1f:66:ee:59:b9",
        "method": "bond",
        "physical": {
            "address": "0.0.0.0",
            "macAddress": "c8:1f:66:ee:59:b9",
            "macAddressPermanent": "c8:1f:66:ee:59:b9",
            "netmask": "N/A",
            "network": "N/A",
            "upAndRunning": true
        },
        "status": "UpAndRunning",
        "upAndRunning": true
    },
},

```

```

    "lo": {
      "auto": true,
      "family": "inet",
      "linkSpeed": 0,
      "macAddress": "00:00:00:00:00:00",
      "macAddressPermanent": "00:00:00:00:00:00",
      "method": "loopback",
      "physical": {
        "address": "0.0.0.0",
        "macAddress": "00:00:00:00:00:00",
        "macAddressPermanent": "00:00:00:00:00:00",
        "netmask": "N/A",
        "network": "N/A",
        "upAndRunning": true
      },
      "status": "UpAndRunning",
      "upAndRunning": true
    }
  }
}

```

GetClusterHardwareInfo

GetClusterHardwareInfo 方法返回类似于以下示例的响应。

```

{
  "id": null,
  "result": {
    "clusterHardwareInfo": {
      "drives": {
        "1": {
          "description": "ATA      Drive",
          "dev": "8:0",
          "devpath": "/dev/disk/by-id/scsi-SATA_VRFSD3400GNCVMT205121562-
part4",
          "driveSecurityAtMaximum": false,
          "driveSecurityFrozen": true,
          "driveSecurityLocked": false,
          "logicalname": "/dev/sda",
          "product": "VRFSD3400GNCVMTJS1",
          "securityFeatureEnabled": false,
          "securityFeatureSupported": true,
          "serial": "205121562",

```

```

    "size": 299988156416,
    "uuid": "febe39ae-4984-edc0-e3a7-3c47608cfac",
    "version": "515ABBF0"
  },
  "2": {...
  },
  "3": {...
  },
  "4": {...
  },
  "5": {...
  },
  "6": {...
  },
  .
  .
  .
  "44": {...
  },
  },
  "nodes":{
    "1":{
      Storage Node
      "core_DMI:0200": {
      "description": "Motherboard",
      "physid": "0",
      "vendor": "SolidFire"
    },
    "fiber:0_PCI:0000:04:00.0": {
      "businfo": "pci@0000:04:00.0",
      "clock": "330000000",
      "description": "Fibre Channel",
      "physid": "0",
      "product": "ISP8324-based 16Gb Fibre Channel to PCI Express
Adapter",
      "vendor": "QLogic Corp.",
      "version": "02",
      "width": "64"
    },
    "Repeat fiber information": {...}
    "Repeat fiber": {...},
    "Repeat fiber": {...},
  }
},
  "fans": {
    "Fan1A RPM": {
      "baseUnit": "RPM",

```

```

    "threshold": 840,
    "value": 4800
  },
  "Fan1B RPM": {...},
  .
  .
  .
  "Fan7B RPM": {...
},
"fibreChannelPorts": [
  {
    "firmware": "7.04.00 (d0d5)",
    "hbaPort": 1,
    "model": "QLE2672",
    "nPortID": "0x110c36",
    "pciSlot": 3,
    "serial": "BFE1341E09329",
    "speed": "8 Gbit",
    "state": "Online",
    "switchWwn": "20:01:00:2a:6a:a0:25:01",
    "wwnn": "5f:47:ac:c8:82:23:e0:00",
    "wwpn": "5f:47:ac:c0:82:23:e0:02"
  },
  {
    "firmware": "7.04.00 (d0d5)", {...}
    "firmware": "7.04.00 (d0d5)", {...}
    "firmware": "7.04.00 (d0d5)", {...}
  }
],
"hardwareConfig": {
  "BIOS_REVISION": {
    "Passed": true,
    "actual": "1.1",
    "comparator": ">=",
    "expected": "1.0"
  },
  "BIOS_VENDOR": {
    "Passed": true,
    "actual": "SolidFire",
    "comparator": "==",
    "expected": "SolidFire"
  },
  "BIOS_VERSION": {
    "Passed": true,
    "actual": "1.1.2",
    "comparator": ">=",

```

```

    "expected": "1.1.2"
  },
  "BMC_FIRMWARE_REVISION": {
    "Passed": true,
    "actual": "1.6",
    "comparator": ">=",
    "expected": "1.6"
  },
  "BMC_IPMI_VERSION": {
    "Passed": true,
    "actual": "2.0",
    "comparator": ">=",
    "expected": "2.0"
  },
  "CHASSIS_TYPE": {
    "Passed": true,
    "actual": "R620",
    "comparator": "==",
    "expected": "R620"
  },
  "CPU_CORES_00": {
    "Passed": true,
    "actual": "6",
    "comparator": "==",
    "expected": "6"
  },
  "CPU_CORES_01": {
    "Passed": true,
    "actual": "6",
    "comparator": "==",
    "expected": "6"
  },
  "CPU_CORES_ENABLED_00": {
    "Passed": true,
    "actual": "6",
    "comparator": "==",
    "expected": "6"
  },
  "CPU_CORES_ENABLED_01": {
    "Passed": true,
    "actual": "6",
    "comparator": "==",
    "expected": "6"
  },
  "CPU_MODEL_00": {
    "Passed": true,

```

```

    "actual": "Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz",
    "comparator": "==",
    "expected": "Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz"
  },
  "CPU_MODEL_01": {
    "Passed": true,
    "actual": "Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz",
    "comparator": "==",
    "expected": "Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz"
  },
  "CPU_THREADS_00": {
    "Passed": true,
    "actual": "12",
    "comparator": "==",
    "expected": "12"
  },
  "CPU_THREADS_01": {
    "Passed": true,
    "actual": "12",
    "comparator": "==",
    "expected": "12"
  },
  "DRIVE_SIZE_BYTES_SDIMM0": {
    "Passed": true,
    "actual": "100030242816",
    "comparator": ">=",
    "expected": "100030242816"
  },
  "FIBRE_CHANNEL_FIRMWARE_REVISION": {
    "Passed": true,
    "actual": "FW:v7.04.00",
    "comparator": "==",
    "expected": "FW:v7.04.00"
  },
  "FIBRE_CHANNEL_MODEL": {
    "Passed": true,
    "actual": "QLE2672",
    "comparator": "==",
    "expected": "QLE2672"
  },
  "IDRAC_VERSION": {
    "Passed": true,
    "actual": "1.06.06",
    "comparator": ">=",
    "expected": "1.06.06"
  },

```

```

"LIFECYCLE_VERSION": {
  "Passed": true,
  "actual": "1.0.0.5747",
  "comparator": ">=",
  "expected": "1.0.0.5747"
},
"MEMORY_GB": {
  "Passed": true,
  "actual": "32",
  "comparator": ">=",
  "expected": "32"
},
"MEMORY_MHZ_00": {
  "Passed": true,
  "actual": "1333",
  "comparator": ">=",
  "expected": "1333"
},
"MEMORY_MHZ_01": {
  "Passed": true,
  "actual": "1333",
  "comparator": ">=",
  "expected": "1333"
},
"MEMORY_MHZ_02": {
  "Passed": true,
  "actual": "1333",
  "comparator": ">=",
  "expected": "1333"
},
"MEMORY_MHZ_03": {
  "Passed": true,
  "actual": "1333",
  "comparator": ">=",
  "expected": "1333"
},
"NETWORK_DRIVER_ETH0": {
  "Passed": true,
  "actual": "bnx2x",
  "comparator": "=~",
  "expected": "^bnx2x$"
},
{
  "NETWORK_DRIVER_ETH1":, {...
},
  "NETWORK_DRIVER_ETH2":, {...

```

```

},
  "NETWORK_DRIVER_ETH3":, {...
},
  "NETWORK_DRIVER_ETH4":, {...
},
  "NETWORK_DRIVER_ETH5":, {...
},
  "NODE_TYPE": {
    "Passed": true,
    "actual": "FC0025",
    "comparator": "==",
    "expected": "FC0025"
  },
  "NUM_CPU": {
    "Passed": true,
    "actual": "2",
    "comparator": "==",
    "expected": "2"
  },
  "NUM_DRIVES": {
    "Passed": true,
    "actual": "0",
    "comparator": "==",
    "expected": "0"
  },
  "NUM_DRIVES_INTERNAL": {
    "Passed": true,
    "actual": "1",
    "comparator": "==",
    "expected": "1"
  },
  "NUM_FIBRE_CHANNEL_PORTS": {
    "Passed": true,
    "actual": "4",
    "comparator": "==",
    "expected": "4"
  },
  "NVRAM_VENDOR": {
    "Passed": true,
    "actual": "",
    "comparator": "==",
    "expected": ""
  },
  "ROOT_DRIVE_REMOVABLE": {
    "Passed": true,
    "actual": "false",

```

```

    "comparator": "==",
    "expected": "false"
  },
  "memory": {
    "firmware_": {
      "capacity": "8323072",
      "date": "03/08/2012",
      "description": "BIOS",
      "physid": "0",
      "size": "65536",
      "vendor": "SolidFire",
      "version": "1.1.2"
    },
    "memory_DMI:1000": {
      "description": "System Memory",
      "physid": "1000",
      "size": "34359738368",
      "slot": "System board or motherboard"
    }
  },
  "network": {
    "network:0_PCI:0000:01:00.0": {
      "businfo": "pci@0000:01:00.0",
      "capacity": "1000000000",
      "clock": "33000000",
      "description": "Ethernet interface",
      "logicalname": "eth0",
      "physid": "0",
      "product": "NetXtreme II BCM57800 1/10 Gigabit Ethernet",
      "serial": "c8:1f:66:e0:97:2a",
      "vendor": "Broadcom Corporation",
      "version": "10",
      "width": "64"
    },
    "network:0_PCI:0000:41:00.0": {...
  },
    "network:1_PCI:0000:01:00.1": {...
  },
    "network:1_PCI:0000:41:00.1": {...
  },
    "network:2_PCI:0000:01:00.2": {...
  },
    "network:3_PCI:0000:01:00.3": {...
  }
},

```

```

"networkInterfaces": {
  "Bond10G": {
    "isConfigured": true,
    "isUp": true
  },
  "Bond1G": {
    "isConfigured": true,
    "isUp": true
  },
  "eth0": {
    "isConfigured": true,
    "isUp": true
  },
  "eth1": {...
  },
  "eth2": {...
  },
  "eth3": {...
  },
  "eth4": {...
  },
  "eth5": {...
  }
},
"nvram": {
  "errors": {
    "numOfErrorLogEntries": "0"
  },
  "extended": {
    "dialogVersion": "4",
    "event": [
      {
        "name": "flushToFlash",
        "time": "2015-08-06 01:19:39",
        "value": "0"
      },
      {
        "name": "flushToFlash",
        "time": "2015-08-06 01:26:44",
        "value": "0"
      },
      {... next "flushToFlash"
    },
    {... next "flushToFlash"
  },
  {... next "flushToFlash"
}

```

```

    },
    {... next "flushToFlash"
  },
  {... next "flushToFlash"
  },
  {... next "flushToFlash"
  },
  {... next "flushToFlash"
  }
],
"eventOccurrences": [
  {
    "count": "740",
    "name": "flushToFlash"
  },
  {
    "count": "1",
    "name": "excessiveCurrent"
  }
],
"initialCapacitance": "6.630 F",
"initialEsr": "0.101 Ohm",
"measurement": [
  {
    "level_0": " 0",
    "level_1": " 3969",
    "level_2": " 4631",
    "level_3": " 12875097",
    "level_4": " 1789948",
    "level_5": " 0",
    "level_6": " 0",
    "level_7": " 0",
    "level_8": " 0",
    "level_9": " 0",
    "name": "enterpriseFlashControllerTemperature",
    "recent": "66 C"
  },
  {
    "level_0": " 0",
    "level_1": " 58",
    "level_2": " 1479058",
    "level_3": " 12885356",
    "level_4": " 308293",
    "level_5": " 851",
    "level_6": " 29",
    "level_7": " 0",

```

```

    "level_8": " 0",
    "level_9": " 0",
    "name": "capacitor1And2Temperature",
    "recent": "30.69 C"
  },
  { ...next temp measurement
  },
  { ...next temp measurement
  },
  { ...next temp measurement
  },
  {
    "name": "voltageOfCapacitor1",
    "recent": "2.198 V"
  },
  {
    "name": "voltageOfCapacitor2",
    "recent": "2.181 V"
  },
  {
    "name": "voltageOfCapacitor3",
    "recent": "2.189 V"
  },
  {
    "name": "voltageOfCapacitor4",
    "recent": "2.195 V"
  },
  {
    "level_0": " 4442034",
    "level_1": " 6800018",
    "level_2": " 2846869",
    "level_3": " 119140",
    "level_4": " 29506",
    "level_5": " 428935",
    "level_6": " 7143",
    "level_7": " 0",
    "level_8": " 0",
    "level_9": " 0",
    "name": "capacitorPackVoltage",
    "recent": "8.763 V"
  },
  {
    "level_0": " 0",
    "level_1": " 0",
    "level_2": " 0",
    "level_3": " 0",

```

```

    "level_4": " 189",
    "level_5": " 17",
    "level_6": " 36",
    "level_7": " 0",
    "level_8": " 2",
    "level_9": " 490",
    "name": "capacitorPackVoltageAtEndOfFlushToFlash",
    "recent": "4.636 V"
  },
  {
    "name": "currentDerivedFromV3V4",
    "recent": "-0.004 A"
  },
  {
    "level_0": " 230",
    "level_1": " 482",
    "level_2": " 22",
    "level_3": " 0",
    "level_4": " 0",
    "level_5": " 0",
    "level_6": " 0",
    "level_7": " 0",
    "level_8": " 0",
    "level_9": " 0",
    "name": "derivedEnergy",
    "recent": "172 Joules"
  },
  { ...next voltage measurement
  },
  { ...next voltage measurement
  },
  { ...next voltage measurement
  },
],
"smartCounters": [
  {
    "name": "numberOf512ByteBlocksReadFromDdr",
    "value": "10530088847"
  },
  {
    "name": "numberOf512ByteBlocksWrittenToDdr",
    "value": "1752499453837"
  },
  {
    "name": "numberOfHostReadCommands",
    "value": "235317769"
  }
]

```

```

    },
    {...next smartCounters measurement
    },
    {...next smartCounters measurement
    },
    {...next smartCounters measurement
    },
  ],
  "snapshotTime": "2015-08-20 16:30:01"
},
"firmware": {
  "activeSlotNumber": "2",
  "slot1Version": "1e5817bc",
  "slot2Version": "5fb7565c",
  "slot3Version": "1e5817bc",
  "slot4Version": "1e5817bc"
},
"identify": {
  "firmwareVersion": "5fb7565c on slot 2",
  "hardwareRevision": "B04",
  "modelName": "RMS-200",
  "serialNumber": "0000862"
},
"smart": {
  "availableSpace": "0%",
  "availableSpaceThreshold": "0%",
  "controllerBusyTimeMinutes": "6793",
  "criticalErrorVector": "0x0",
  "mediaErrors": "0",
  "numberOf512ByteBlocksRead": "10530088847",
  "numberOf512ByteBlocksWritten": "1752499439063",
  "numberOfErrorInfoLogs": "1",
  "numberOfHostReadCommands": "235317769",
  "numberOfHostWriteCommands": "126030374065",
  "numberOfPowerCycles": "709",
  "powerOnHours": "11223",
  "temperature": "324 Kelvin",
  "unsafeShutdowns": "357"
  },
  "origin": null,
  "platform": {
    "chassisType": "R620",
    "cpuModel": "Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz",
    "nodeMemoryGB": 32,
    "nodeType": "FC0025"
  }
}

```

```

},
"powerSupplies": {
  "PS1 status": {
    "powerSupplyFailureDetected": false,
    "powerSupplyHasAC": true,
    "powerSupplyPredictiveFailureDetected": false,
    "powerSupplyPresent": true,
    "powerSupplyPresentLastCheck": true
  },
  "PS2 status": {
    "powerSupplyFailureDetected": false,
    "powerSupplyHasAC": true,
    "powerSupplyPredictiveFailureDetected": false,
    "powerSupplyPresent": true,
    "powerSupplyPresentLastCheck": true
  }
},
"storage": {
  "storage_PCI:0000:00:1f.2": {
    "businfo": "pci@0000:00:1f.2",
    "clock": "66000000",
    "description": "SATA controller",
    "physid": "1f.2",
    "product": "C600/X79 series chipset 6-Port SATA AHCI Controller",
    "vendor": "Intel Corporation",
    "version": "05",
    "width": "32"
  }
},
"system": {
  "ubuntu_DMI:0100": {
    "description": "Rack Mount Chassis",
    "product": "SFx010 ()",
    "serial": "HTW1DZ1",
    "vendor": "SolidFire",
    "width": "64"
  }
},
"temperatures": {
  "Exhaust Temp": {
    "baseUnit": "C",
    "threshold": 70,
    "value": 41
  },
  "Inlet Temp": {
    "baseUnit": "C",

```

```

        "threshold": 42,
        "value": 18
    },
    },
    "uuid": "4C4C4544-0054-5710-8031-C8C04F445A31"
},
"2": {...},           Storage Node "2"
"3": {...},           Storage Node "3"
"4": {...},           Storage Node "4"
"5": {                Fibre Channel Node
    }
}
}
}

```

GetLldpInfo

GetLldpInfo 方法返回类似于以下示例的响应。

```

{
  "id": null,
  "result": {
    "lldpInfo": {
      "lldpChassis": {
        "local-chassis": [
          {
            "chassis": [
              {
                "capability": [
                  {
                    "enabled": false,
                    "type": "Bridge"
                  },
                  {
                    "enabled": false,
                    "type": "Router"
                  },
                  {
                    "enabled": false,
                    "type": "Wlan"
                  },
                  {
                    "enabled": true,
                    "type": "Station"
                  }
                ]
              }
            ]
          }
        ]
      }
    }
  }
}

```

```

    ],
    "descr": [
      {
        "value": "Element OS 11.0"
      }
    ],
    "id": [
      {
        "type": "mac",
        "value": "08:00:27:3c:0a:f4"
      }
    ],
    "mgmt-ip": [
      {
        "value": "10.0.2.15"
      },
      {
        "value": "fe80::a00:27ff:fe3c:af4"
      }
    ],
    "name": [
      {
        "value": "SF-93FF"
      }
    ]
  }
],
"lldp-med": [
  {
    "capability": [
      {
        "available": true,
        "type": "Capabilities"
      },
      {
        "available": true,
        "type": "Policy"
      },
      {
        "available": true,
        "type": "Location"
      },
      {
        "available": true,
        "type": "MDI/PSE"
      }
    ]
  }
]

```

```

    {
      "available": true,
      "type": "MDI/PD"
    },
    {
      "available": true,
      "type": "Inventory"
    }
  ],
  "device-type": [
    {
      "value": "Generic Endpoint (Class I)"
    }
  ],
  "inventory": [
    {
      "firmware": [
        {
          "value": "VirtualBox"
        }
      ],
      "hardware": [
        {
          "value": "1.2"
        }
      ],
      "manufacturer": [
        {
          "value": "innotek GmbH"
        }
      ],
      "model": [
        {
          "value": "VirtualBox"
        }
      ],
      "serial": [
        {
          "value": "0"
        }
      ],
      "software": [
        {
          "value": "4.14.27-solidfire2"
        }
      ]
    }
  ]

```

```

    }
  ]
}
]
},
"lldpInterfaces": {
  "lldp": [
    {
      "interface": [
        {
          "age": "0 day, 00:01:04",
          "chassis": [
            {
              "capability": [
                {
                  "enabled": false,
                  "type": "Bridge"
                },
                {
                  "enabled": false,
                  "type": "Router"
                },
                {
                  "enabled": false,
                  "type": "Wlan"
                },
                {
                  "enabled": true,
                  "type": "Station"
                }
              ],
              "descr": [
                {
                  "value": "Element OS 11.0"
                }
              ],
              "id": [
                {
                  "type": "mac",
                  "value": "08:00:27:3c:0a:f4"
                }
              ],
              "mgmt-ip": [
                {

```

```

        "value": "10.0.2.15"
      },
      {
        "value": "fe80::a00:27ff:fe3c:af4"
      }
    ],
    "name": [
      {
        "value": "SF-93FF"
      }
    ]
  }
],
"lldp-med": [
  {
    "capability": [
      {
        "available": true,
        "type": "Capabilities"
      },
      {
        "available": true,
        "type": "Policy"
      },
      {
        "available": true,
        "type": "Location"
      },
      {
        "available": true,
        "type": "MDI/PSE"
      },
      {
        "available": true,
        "type": "MDI/PD"
      },
      {
        "available": true,
        "type": "Inventory"
      }
    ]
  },
  "device-type": [
    {
      "value": "Generic Endpoint (Class I)"
    }
  ]
],

```

```

    "inventory": [
      {
        "firmware": [
          {
            "value": "VirtualBox"
          }
        ],
        "hardware": [
          {
            "value": "1.2"
          }
        ],
        "manufacturer": [
          {
            "value": "innotek GmbH"
          }
        ],
        "model": [
          {
            "value": "VirtualBox"
          }
        ],
        "serial": [
          {
            "value": "0"
          }
        ],
        "software": [
          {
            "value": "4.14.27-solidfire2"
          }
        ]
      }
    ],
    "name": "eth0",
    "port": [
      {
        "aggregation": [
          {
            "value": "7"
          }
        ],
        "auto-negotiation": [
          {

```

```

    "advertised": [
      {
        "fd": true,
        "hd": true,
        "type": "10Base-T"
      },
      {
        "fd": true,
        "hd": true,
        "type": "100Base-TX"
      },
      {
        "fd": true,
        "hd": false,
        "type": "1000Base-T"
      }
    ],
    "current": [
      {
        "value": "full duplex mode"
      }
    ],
    "enabled": true,
    "supported": true
  }
],
"descr": [
  {
    "value": "eth0"
  }
],
"id": [
  {
    "type": "mac",
    "value": "08:00:27:3c:0a:f4"
  }
]
}
],
"ttl": [
  {
    "ttl": "120"
  }
],
"via": "unknown"
},

```

```

{
  "age": "17722 days, 17:14:28",
  "chassis": [
    {
      "capability": [
        {
          "enabled": false,
          "type": "Bridge"
        },
        {
          "enabled": false,
          "type": "Router"
        },
        {
          "enabled": false,
          "type": "Wlan"
        },
        {
          "enabled": true,
          "type": "Station"
        }
      ],
      "descr": [
        {
          "value": "Element OS 11.0"
        }
      ],
      "id": [
        {
          "type": "mac",
          "value": "08:00:27:3c:0a:f4"
        }
      ],
      "mgmt-ip": [
        {
          "value": "10.0.2.15"
        },
        {
          "value": "fe80::a00:27ff:fe3c:af4"
        }
      ],
      "name": [
        {
          "value": "SF-93FF"
        }
      ]
    }
  ]
}

```

```

    }
  ],
  "lldp-med": [
    {
      "capability": [
        {
          "available": true,
          "type": "Capabilities"
        },
        {
          "available": true,
          "type": "Policy"
        },
        {
          "available": true,
          "type": "Location"
        },
        {
          "available": true,
          "type": "MDI/PSE"
        },
        {
          "available": true,
          "type": "MDI/PD"
        },
        {
          "available": true,
          "type": "Inventory"
        }
      ],
    },
    "device-type": [
      {
        "value": "Generic Endpoint (Class I)"
      }
    ],
    "inventory": [
      {
        "firmware": [
          {
            "value": "VirtualBox"
          }
        ],
        "hardware": [
          {
            "value": "1.2"
          }
        ]
      }
    ]
  ]
}

```

```

    ],
    "manufacturer": [
      {
        "value": "innotek GmbH"
      }
    ],
    "model": [
      {
        "value": "VirtualBox"
      }
    ],
    "serial": [
      {
        "value": "0"
      }
    ],
    "software": [
      {
        "value": "4.14.27-solidfire2"
      }
    ]
  }
]
}
],
"name": "eth1",
"port": [
  {
    "aggregation": [
      {
        "value": "7"
      }
    ],
    "auto-negotiation": [
      {
        "advertised": [
          {
            "fd": true,
            "hd": true,
            "type": "10Base-T"
          },
          {
            "fd": true,
            "hd": true,
            "type": "100Base-TX"
          }
        ]
      }
    ]
  }
]

```

```

        {
            "fd": true,
            "hd": false,
            "type": "1000Base-T"
        }
    ],
    "current": [
        {
            "value": "unknown"
        }
    ],
    "enabled": true,
    "supported": true
}
],
"descr": [
    {
        "value": "eth1"
    }
],
"id": [
    {
        "type": "mac",
        "value": "08:00:27:36:79:78"
    }
]
}
],
"ttl": [
    {
        "ttl": "120"
    }
],
"via": "unknown"
},
{
    "age": "0 day, 00:01:01",
    "chassis": [
        {
            "capability": [
                {
                    "enabled": false,
                    "type": "Bridge"
                },
                {
                    "enabled": false,

```

```

        "type": "Router"
      },
      {
        "enabled": false,
        "type": "Wlan"
      },
      {
        "enabled": true,
        "type": "Station"
      }
    ],
    "descr": [
      {
        "value": "Element OS 11.0"
      }
    ],
    "id": [
      {
        "type": "mac",
        "value": "08:00:27:3c:0a:f4"
      }
    ],
    "mgmt-ip": [
      {
        "value": "10.0.2.15"
      },
      {
        "value": "fe80::a00:27ff:fe3c:af4"
      }
    ],
    "name": [
      {
        "value": "SF-93FF"
      }
    ]
  }
],
"lldp-med": [
  {
    "capability": [
      {
        "available": true,
        "type": "Capabilities"
      },
      {
        "available": true,

```

```

        "type": "Policy"
    },
    {
        "available": true,
        "type": "Location"
    },
    {
        "available": true,
        "type": "MDI/PSE"
    },
    {
        "available": true,
        "type": "MDI/PD"
    },
    {
        "available": true,
        "type": "Inventory"
    }
],
"device-type": [
    {
        "value": "Generic Endpoint (Class I)"
    }
],
"inventory": [
    {
        "firmware": [
            {
                "value": "VirtualBox"
            }
        ],
        "hardware": [
            {
                "value": "1.2"
            }
        ],
        "manufacturer": [
            {
                "value": "innotek GmbH"
            }
        ],
        "model": [
            {
                "value": "VirtualBox"
            }
        ]
    }
],

```

```

        "serial": [
            {
                "value": "0"
            }
        ],
        "software": [
            {
                "value": "4.14.27-solidfire2"
            }
        ]
    }
]
}
],
"name": "eth2",
"port": [
    {
        "aggregation": [
            {
                "value": "6"
            }
        ],
        "auto-negotiation": [
            {
                "advertised": [
                    {
                        "fd": true,
                        "hd": true,
                        "type": "10Base-T"
                    },
                    {
                        "fd": true,
                        "hd": true,
                        "type": "100Base-TX"
                    },
                    {
                        "fd": true,
                        "hd": false,
                        "type": "1000Base-T"
                    }
                ],
                "current": [
                    {
                        "value": "full duplex mode"
                    }
                ]
            }
        ]
    }
],

```

```

        "enabled": true,
        "supported": true
    }
],
"descr": [
    {
        "value": "eth2"
    }
],
"id": [
    {
        "type": "mac",
        "value": "08:00:27:fc:f0:a9"
    }
]
}
],
"ttl": [
    {
        "ttl": "120"
    }
],
"via": "LLDP"
},
{
    "age": "0 day, 00:01:01",
    "chassis": [
        {
            "capability": [
                {
                    "enabled": false,
                    "type": "Bridge"
                },
                {
                    "enabled": false,
                    "type": "Router"
                },
                {
                    "enabled": false,
                    "type": "Wlan"
                },
                {
                    "enabled": true,
                    "type": "Station"
                }
            ]
        }
    ],

```

```

    "descr": [
      {
        "value": "Element OS 11.0"
      }
    ],
    "id": [
      {
        "type": "mac",
        "value": "08:00:27:3c:0a:f4"
      }
    ],
    "mgmt-ip": [
      {
        "value": "10.0.2.15"
      },
      {
        "value": "fe80::a00:27ff:fe3c:af4"
      }
    ],
    "name": [
      {
        "value": "SF-93FF"
      }
    ]
  }
],
"lldp-med": [
  {
    "capability": [
      {
        "available": true,
        "type": "Capabilities"
      },
      {
        "available": true,
        "type": "Policy"
      },
      {
        "available": true,
        "type": "Location"
      },
      {
        "available": true,
        "type": "MDI/PSE"
      }
    ]
  }
]

```

```

        "available": true,
        "type": "MDI/PD"
    },
    {
        "available": true,
        "type": "Inventory"
    }
],
"device-type": [
    {
        "value": "Generic Endpoint (Class I)"
    }
],
"inventory": [
    {
        "firmware": [
            {
                "value": "VirtualBox"
            }
        ],
        "hardware": [
            {
                "value": "1.2"
            }
        ],
        "manufacturer": [
            {
                "value": "innotek GmbH"
            }
        ],
        "model": [
            {
                "value": "VirtualBox"
            }
        ],
        "serial": [
            {
                "value": "0"
            }
        ],
        "software": [
            {
                "value": "4.14.27-solidfire2"
            }
        ]
    }
]

```

```

    ]
  }
],
"name": "eth3",
"port": [
  {
    "aggregation": [
      {
        "value": "6"
      }
    ],
    "auto-negotiation": [
      {
        "advertised": [
          {
            "fd": true,
            "hd": true,
            "type": "10Base-T"
          },
          {
            "fd": true,
            "hd": true,
            "type": "100Base-TX"
          },
          {
            "fd": true,
            "hd": false,
            "type": "1000Base-T"
          }
        ],
        "current": [
          {
            "value": "full duplex mode"
          }
        ],
        "enabled": true,
        "supported": true
      }
    ],
    "descr": [
      {
        "value": "eth3"
      }
    ],
    "id": [
      {

```



```

    }
  ],
  "id": [
    {
      "type": "mac",
      "value": "50:7b:9d:2b:36:84"
    }
  ],
  "mgmt-ip": [
    {
      "value": "192.168.100.1"
    },
    {
      "value": "fe80::a58e:843:952e:d8eb"
    }
  ],
  "name": [
    {
      "value": "ConventionalWisdom.wlan.netapp.com"
    }
  ]
}
],
"name": "eth2",
"port": [
  {
    "auto-negotiation": [
      {
        "current": [
          {
            "value": "full duplex mode"
          }
        ],
        "enabled": false,
        "supported": false
      }
    ],
    "descr": [
      {
        "value": "vboxnet1"
      }
    ],
    "id": [
      {
        "type": "mac",
        "value": "0a:00:27:00:00:01"
      }
    ]
  }
]

```

```

    }
    ],
    "ttl": [
        {
            "value": "120"
        }
    ]
}
],
"rid": "2",
"via": "LLDP"
},
{
    "age": "0 day, 00:01:01",
    "chassis": [
        {
            "capability": [
                {
                    "enabled": false,
                    "type": "Bridge"
                },
                {
                    "enabled": false,
                    "type": "Router"
                },
                {
                    "enabled": false,
                    "type": "Wlan"
                },
                {
                    "enabled": true,
                    "type": "Station"
                }
            ],
            "descr": [
                {
                    "value": "Element OS 11.0"
                }
            ],
            "id": [
                {
                    "type": "mac",
                    "value": "08:00:27:3c:0a:f4"
                }
            ],
            "mgmt-ip": [

```

```

        {
            "value": "10.0.2.15"
        },
        {
            "value": "fe80::a00:27ff:fe3c:af4"
        }
    ],
    "name": [
        {
            "value": "SF-93FF"
        }
    ]
}
],
"lldp-med": [
    {
        "capability": [
            {
                "available": true,
                "type": "Capabilities"
            },
            {
                "available": true,
                "type": "Policy"
            },
            {
                "available": true,
                "type": "Location"
            },
            {
                "available": true,
                "type": "MDI/PSE"
            },
            {
                "available": true,
                "type": "MDI/PD"
            },
            {
                "available": true,
                "type": "Inventory"
            }
        ],
        "device-type": [
            {
                "value": "Generic Endpoint (Class I)"
            }
        ]
    }
]

```

```

    ],
    "inventory": [
      {
        "firmware": [
          {
            "value": "VirtualBox"
          }
        ],
        "hardware": [
          {
            "value": "1.2"
          }
        ],
        "manufacturer": [
          {
            "value": "innotek GmbH"
          }
        ],
        "model": [
          {
            "value": "VirtualBox"
          }
        ],
        "serial": [
          {
            "value": "0"
          }
        ],
        "software": [
          {
            "value": "4.14.27-solidfire2"
          }
        ]
      }
    ]
  },
  "name": "eth2",
  "port": [
    {
      "aggregation": [
        {
          "value": "6"
        }
      ],
      "auto-negotiation": [

```

```

    {
      "advertised": [
        {
          "fd": true,
          "hd": true,
          "type": "10Base-T"
        },
        {
          "fd": true,
          "hd": true,
          "type": "100Base-TX"
        },
        {
          "fd": true,
          "hd": false,
          "type": "1000Base-T"
        }
      ],
      "current": [
        {
          "value": "full duplex mode"
        }
      ],
      "enabled": true,
      "supported": true
    }
  ],
  "descr": [
    {
      "value": "eth3"
    }
  ],
  "id": [
    {
      "type": "mac",
      "value": "08:00:27:2c:e4:f8"
    }
  ],
  "ttl": [
    {
      "value": "120"
    }
  ]
}
],
"rid": "1",

```

```

    "via": "LLDP"
  },
  {
    "age": "0 day, 00:04:34",
    "chassis": [
      {
        "capability": [
          {
            "enabled": true,
            "type": "Bridge"
          },
          {
            "enabled": true,
            "type": "Router"
          },
          {
            "enabled": true,
            "type": "Wlan"
          },
          {
            "enabled": false,
            "type": "Station"
          }
        ],
        "descr": [
          {
            "value": "x86_64"
          }
        ],
        "id": [
          {
            "type": "mac",
            "value": "50:7b:9d:2b:36:84"
          }
        ],
        "mgmt-ip": [
          {
            "value": "192.168.100.1"
          },
          {
            "value": "fe80::a58e:843:952e:d8eb"
          }
        ],
        "name": [
          {
            "value": ""
          }
        ]
      }
    ]
  }
]

```

```

        }
    ]
}
],
"name": "eth3",
"port": [
    {
        "auto-negotiation": [
            {
                "current": [
                    {
                        "value": "full duplex mode"
                    }
                ],
                "enabled": false,
                "supported": false
            }
        ],
        "descr": [
            {
                "value": "vboxnet1"
            }
        ],
        "id": [
            {
                "type": "mac",
                "value": "0a:00:27:00:00:01"
            }
        ],
        "ttl": [
            {
                "value": "120"
            }
        ]
    }
],
"rid": "2",
"via": "LLDP"
},
{
    "age": "0 day, 00:01:01",
    "chassis": [
        {
            "capability": [
                {
                    "enabled": false,

```

```

        "type": "Bridge"
    },
    {
        "enabled": false,
        "type": "Router"
    },
    {
        "enabled": false,
        "type": "Wlan"
    },
    {
        "enabled": true,
        "type": "Station"
    }
],
"descr": [
    {
        "value": "Element OS 11.0"
    }
],
"id": [
    {
        "type": "mac",
        "value": "08:00:27:3c:0a:f4"
    }
],
"mgmt-ip": [
    {
        "value": "10.0.2.15"
    },
    {
        "value": "fe80::a00:27ff:fe3c:af4"
    }
],
"name": [
    {
        "value": "SF-93FF"
    }
]
}
],
"lldp-med": [
    {
        "capability": [
            {
                "available": true,

```

```

        "type": "Capabilities"
    },
    {
        "available": true,
        "type": "Policy"
    },
    {
        "available": true,
        "type": "Location"
    },
    {
        "available": true,
        "type": "MDI/PSE"
    },
    {
        "available": true,
        "type": "MDI/PD"
    },
    {
        "available": true,
        "type": "Inventory"
    }
],
"device-type": [
    {
        "value": "Generic Endpoint (Class I)"
    }
],
"inventory": [
    {
        "firmware": [
            {
                "value": "VirtualBox"
            }
        ],
        "hardware": [
            {
                "value": "1.2"
            }
        ],
        "manufacturer": [
            {
                "value": "innotek GmbH"
            }
        ]
    },
    {
        "model": [

```

```

        {
            "value": "VirtualBox"
        }
    ],
    "serial": [
        {
            "value": "0"
        }
    ],
    "software": [
        {
            "value": "4.14.27-solidfire2"
        }
    ]
}
]
}
],
"name": "eth3",
"port": [
    {
        "aggregation": [
            {
                "value": "6"
            }
        ],
        "auto-negotiation": [
            {
                "advertised": [
                    {
                        "fd": true,
                        "hd": true,
                        "type": "10Base-T"
                    },
                    {
                        "fd": true,
                        "hd": true,
                        "type": "100Base-TX"
                    },
                    {
                        "fd": true,
                        "hd": false,
                        "type": "1000Base-T"
                    }
                ]
            }
        ],
        "current": [

```

```
{
    {
        "value": "1000BaseTFD"
    }
    ],
    "enabled": true,
    "supported": true
}
],
"descr": [
    {
        "value": "eth2"
    }
],
"id": [
    {
        "type": "mac",
        "value": "08:00:27:fc:f0:a9"
    }
],
"ttl": [
    {
        "value": "120"
    }
]
}
],
"rid": "1",
"via": "LLDP"
}
]
}
}
}
```

GetNetworkConfig

GetNetworkConfig 方法返回类似于以下示例的响应。

```
{
  "id": 1,
  "result": {
    "network": {
```

```

    "Bond10G": {
        "#default": false,
        "address": "10.1.1.0",
        "auto": true,
        "bond-downdelay": "0",
        "bond-fail_over_mac": "None",
        "bond-miimon": "100",
        "bond-mode": "ActivePassive",
        "bond-primary_reselect": "Failure",
        "bond-slaves": "eth0 eth1",
        "bond-updelay": "200",
        "dns-nameservers": "10.1.1.0, 10.1.1.0",
        "dns-search": "ten.test.company.net., company.net.",
        "family": "inet",
        "gateway": "10.1.1.0",
        "linkSpeed": 10000,
        "macAddress": "c8:1f:66:ee:59:b9",
        "macAddressPermanent": "00:00:00:00:00:00",
        "method": "static",
        "mtu": "9000",
        "netmask": "255.255.240.0",
        "network": "10.1.1.0",
        "physical": {
            "address": "10.1.1.0",
            "macAddress": "c8:1f:66:ee:59:b9",
            "macAddressPermanent": "00:00:00:00:00:00",
            "mtu": "9000",
            "netmask": "255.255.240.0",
            "network": "10.1.1.0",
            "upAndRunning": true
        },
        "routes": [],
        "status": "UpAndRunning",
        "symmetricRouteRules": [
            "ip route add 10.1.1.1/20 dev Bond1G src 10.1.2.2
table Bond1G",
            "ip rule add from 10.1.1.1 table Bond1G",
            "ip route add default via 10.1.1.254"
        ],
        "upAndRunning": true,
        "virtualNetworkTag": "0"
    },
    "Bond1G": {
        "#default": true,
        "address": "10.1.1.0",
        "addressV6": "",

```

```

        "auto": true,
        "bond-downdelay": "0",
        "bond-fail_over_mac": "None",
        "bond-miimon": "100",
        "bond-mode": "ActivePassive",
        "bond-primary_reselect": "Failure",
        "bond-slaves": "eth2 eth3",
        "bond-updelay": "200",
        "dns-nameservers": "10.1.1.0, 10.1.1.0",
        "dns-search": "ten.test.company.net., company.net.",
        "family": "inet",
        "gateway": "10.1.1.254",
        "gatewayV6": "",
        "linkSpeed": 1000,
        "macAddress": "c8:1f:66:ee:59:bd",
        "macAddressPermanent": "00:00:00:00:00:00",
        "method": "static",
        "mtu": "1500",
        "netmask": "255.255.240.0",
        "network": "10.1.1.0",
        "physical": {
            "address": "10.1.1.0",
            "macAddress": "c8:1f:66:ee:59:bd",
            "macAddressPermanent": "00:00:00:00:00:00",
            "mtu": "1500",
            "netmask": "255.255.240.0",
            "network": "10.1.1.0",
            "upAndRunning": true
        },
        "routes": [],
        "status": "UpAndRunning",
        "symmetricRouteRules": [
            "ip route add 10.1.1.1/20 dev Bond1G src 10.1.2.2
table Bond1G",
            "ip rule add from 10.1.1.1 table Bond1G",
            "ip route add default via 10.1.1.254"
        ],
        "upAndRunning": true,
        "virtualNetworkTag": "0"
    },
    "eth0": {
        "auto": true,
        "bond-master": "Bond10G",
        "family": "inet",
        "linkSpeed": 10000,
        "macAddress": "c8:1f:66:ee:59:b9",

```

```

    "macAddressPermanent": "c8:1f:66:ee:59:b9",
    "method": "bond",
    "physical": {
        "address": "0.0.0.0",
        "macAddress": "c8:1f:66:ee:59:b9",
        "macAddressPermanent": "c8:1f:66:ee:59:b9",
        "netmask": "N/A",
        "network": "N/A",
        "upAndRunning": true
    },
    "status": "UpAndRunning",
    "upAndRunning": true
},
"eth1": {
    "auto": true,
    "bond-master": "Bond10G",
    "family": "inet",
    "linkSpeed": 10000,
    "macAddress": "c8:1f:66:ee:59:b9",
    "macAddressPermanent": "c8:1f:66:ee:59:bb",
    "method": "bond",
    "physical": {
        "address": "0.0.0.0",
        "macAddress": "c8:1f:66:ee:59:b9",
        "macAddressPermanent": "c8:1f:66:ee:59:bb",
        "netmask": "N/A",
        "network": "N/A",
        "upAndRunning": true
    },
    "status": "UpAndRunning",
    "upAndRunning": true
},
"eth2": {
    "auto": true,
    "bond-master": "Bond1G",
    "family": "inet",
    "linkSpeed": 1000,
    "macAddress": "c8:1f:66:ee:59:bd",
    "macAddressPermanent": "c8:1f:66:ee:59:bd",
    "method": "bond",
    "physical": {
        "address": "0.0.0.0",
        "macAddress": "c8:1f:66:ee:59:bd",
        "macAddressPermanent": "c8:1f:66:ee:59:bd",
        "netmask": "N/A",
        "network": "N/A",

```

```

        "upAndRunning": true
    },
    "status": "UpAndRunning",
    "upAndRunning": true
},
"eth3": {
    "auto": true,
    "bond-master": "Bond1G",
    "family": "inet",
    "linkSpeed": 1000,
    "macAddress": "c8:1f:66:ee:59:bd",
    "macAddressPermanent": "c8:1f:66:ee:59:bf",
    "method": "bond",
    "physical": {
        "address": "0.0.0.0",
        "macAddress": "c8:1f:66:ee:59:bd",
        "macAddressPermanent": "c8:1f:66:ee:59:bf",
        "netmask": "N/A",
        "network": "N/A",
        "upAndRunning": true
    },
    "status": "UpAndRunning",
    "upAndRunning": true
},
"lo": {
    "auto": true,
    "family": "inet",
    "linkSpeed": 0,
    "macAddress": "00:00:00:00:00:00",
    "macAddressPermanent": "00:00:00:00:00:00",
    "method": "loopback",
    "physical": {
        "address": "0.0.0.0",
        "macAddress": "00:00:00:00:00:00",
        "macAddressPermanent": "00:00:00:00:00:00",
        "netmask": "N/A",
        "network": "N/A",
        "upAndRunning": true
    },
    "status": "UpAndRunning",
    "upAndRunning": true
}
}
}
}

```

GetNodeHardwareInfo （iSCSI 的输出）

iSCSI 的 GetNodeHardwareInfo 方法返回类似于以下示例的响应。

```
{
  "id": 1,
  "result": {
    "nodeHardwareInfo": {
      "bus": {
        "core_DMI:0200": {
          "description": "Motherboard",
          "physid": "0",
          "product": "0H47HH",
          "serial": "..CN7475141I0271.",
          "vendor": "SolidFire",
          "version": "A07"
        }
      },
      "driveHardware": [
        {
          "canonicalName": "sda",
          "connected": true,
          "dev": 2048,
          "devPath": "/dev/slot0",
          "driveEncryptionCapability": "fips",
          "driveType": "Slice",
          "lifeRemainingPercent": 98,
          "lifetimeReadBytes": 0,
          "lifetimeWriteBytes": 14012129342144,
          "name": "scsi-SATA_SAMSUNG_MZ7GE24S1M9NWAG501251",
          "path": "/dev/sda",
          "pathLink": "/dev/slot0",
          "powerOnHours": 15489,
          "product": "SAMSUNG MZ7GE240HMGR-00003",
          "reallocatedSectors": 0,
          "reserveCapacityPercent": 100,
          "scsiCompatId": "scsi-SATA_SAMSUNG_MZ7GE24S1M9NWAG501251",
          "scsiState": "Running",
          "securityAtMaximum": false,
          "securityEnabled": true,
          "securityFrozen": false,
          "securityLocked": false,
          "securitySupported": true,
          "serial": "S1M9NWAG501251",
          "size": 240057409536,

```

```

    "slot": 0,
    "uncorrectableErrors": 0,
    "uuid": "789aa05d-e49b-ff4f-f821-f60eed8e43bd",
    "vendor": "Samsung",
    "version": "EXT1303Q"
  },
  {
    "canonicalName": "sda",
    "connected": true,
    "dev": 2048,
    "devPath": "/dev/slot1",
    "driveEncryptionCapability": "fips",
    "driveType": "Slice",
    "lifeRemainingPercent": 98,
    "lifetimeReadBytes": 0,
    "lifetimeWriteBytes": 14112129567184,
    "name": "scsi-SATA_SAMSUNG_MZ7GE24S1M9NWAG501251",
    "path": "/dev/sda",
    "pathLink": "/dev/slot0",
    "powerOnHours": 15489,
    "product": "SAMSUNG MZ7GE240HMGR-00003",
    "reallocatedSectors": 0,
    "reserveCapacityPercent": 100,
    "scsiCompatId": "scsi-SATA_SAMSUNG_MZ7GE24S1M9NWAG501251",
    "scsiState": "Running",
    "securityAtMaximum": false,
    "securityEnabled": true,
    "securityFrozen": false,
    "securityLocked": false,
    "securitySupported": true,
    "serial": "S1M9NWAG501252",
    "size": 240057409536,
    "slot": 0,
    "uncorrectableErrors": 0,
    "uuid": "789aa05d-e49b-ff4f-f821-f60eed8e43bd",
    "vendor": "Samsung",
    "version": "EXT1303Q"
  }
}

```

GetNodeHardwareInfo（光纤通道节点的输出）

光纤通道节点的 GetNodeHardwareInfo 方法返回类似于以下示例的响应。

```

{
  "id": null,
  "result": {
    "nodeHardwareInfo": {
      "bus": {
        "core_DMI:0200": {
          "description": "Motherboard",
          "physid": "0",
          "product": "0H47HH",
          "serial": "..CN747513AA0541.",
          "version": "A07"
        },
        "fiber:0_PCI:0000:04:00.0": {
          "businfo": "pci@0000:04:00.0",
          "clock": "33000000",
          "description": "Fibre Channel",
          "physid": "0",
          "product": "ISP8324-based 16Gb Fibre Channel to PCI Express Adapter",
          "vendor": "QLogic Corp.",
          "version": "02",
          "width": "64"
        },
        "fiber:0_PCI:0000:42:00.0": {
          "businfo": "pci@0000:42:00.0",
          "clock": "33000000",
          "description": "Fibre Channel",
          "physid": "0",
          "product": "ISP8324-based 16Gb Fibre Channel to PCI Express Adapter",
          "vendor": "QLogic Corp.",
          "version": "02",
          "width": "64"
        },
        "fiber:1_PCI:0000:04:00.1": {
          "businfo": "pci@0000:04:00.1",
          "clock": "33000000",
          "description": "Fibre Channel",
          "physid": "0.1",
          "product": "ISP8324-based 16Gb Fibre Channel to PCI Express Adapter",
          "vendor": "QLogic Corp.",
          "version": "02",
          "width": "64"
        },
        "fiber:1_PCI:0000:42:00.1": {
          "businfo": "pci@0000:42:00.1",
          "clock": "33000000",
          "description": "Fibre Channel",

```

```

"physid": "0.1",
"product": "ISP8324-based 16Gb Fibre Channel to PCI Express Adapter",
"vendor": "QLogic Corp.",
"version": "02",
"width": "64"
},
{
  "fans": {
    "Fan1A RPM": {
      "baseUnit": "RPM",
      "threshold": 840,
      "value": 3360
    },
    "Fan1B RPM": {
      "baseUnit": "RPM",
      "threshold": 840,
      "value": 3120
    }
  },
  "fibreChannelPorts": [
    {
      "firmware": "7.04.00 (d0d5)",
      "hbaPort": 1,
      "internalPortID": 2,
      "model": "QLE2672",
      "nPortID": "0x060019",
      "nodeID": 6,
      "pciSlot": 3,
      "serial": "BFE1335E04217",
      "speed": "8 Gbit",
      "state": "Online",
      "switchWwn": "20:01:00:2a:6a:9c:71:01",
      "wwnn": "5f:47:ac:c8:30:26:c9:00",
      "wwpn": "5f:47:ac:c0:30:26:c9:0a"
    },
    {
      "firmware": "7.04.00 (d0d5)",
      "hbaPort": 2,
      "internalPortID": 3,
      "model": "QLE2672",
      "nPortID": "0xc70019",
      "nodeID": 6,
      "pciSlot": 3,
      "serial": "BFE1335E04217",
      "speed": "8 Gbit",
      "state": "Online",

```

```

"switchWwn": "20:01:00:2a:6a:98:a3:41",
"wwnn": "5f:47:ac:c8:30:26:c9:00",
"wwpn": "5f:47:ac:c0:30:26:c9:0b"
},
{
"firmware": "7.04.00 (d0d5)",
"hbaPort": 1,
"internalPortID": 0,
"model": "QLE2672",
"nPortID": "0xc70017",
"nodeID": 6,
"pciSlot": 2,
"serial": "BFE1341E09515",
"speed": "8 Gbit",
"state": "Online",
"switchWwn": "20:01:00:2a:6a:98:a3:41",
"wwnn": "5f:47:ac:c8:30:26:c9:00",
"wwpn": "5f:47:ac:c0:30:26:c9:08"
},
{
"firmware": "7.04.00 (d0d5)",
"hbaPort": 2,
"internalPortID": 1,
"model": "QLE2672",
"nPortID": "0x060017",
"nodeID": 6,
"pciSlot": 2,
"serial": "BFE1341E09515",
"speed": "8 Gbit",
"state": "Online",
"switchWwn": "20:01:00:2a:6a:9c:71:01",
"wwnn": "5f:47:ac:c8:30:26:c9:00",
"wwpn": "5f:47:ac:c0:30:26:c9:09"
}
],
"memory": {
"firmware_": {
"capacity": "8323072",
"date": "08/29/2013",
"description": "BIOS",
"physid": "0",
"size": "65536",
"version": "2.0.19"
},
"memory_DMI:1000": {
"description": "System Memory",

```

```

"physid": "1000",
"size": "34359738368",
"slot": "System board or motherboard"
},
"network": {
"network:0_": {
"description": "Ethernet interface",
"logicalname": "Bond1G",
"physid": "1",
"serial": "c8:1f:66:df:04:da"
},
"network:0_PCI:0000:01:00.0": {
"businfo": "pci@0000:01:00.0",
"capacity": "1000000000",
"clock": "33000000",
"description": "Ethernet interface",
"logicalname": "eth0",
"physid": "0",
"product": "NetXtreme II BCM57800 1/10 Gigabit Ethernet",
"serial": "c8:1f:66:df:04:d6",
"vendor": "Broadcom Corporation",
"version": "10",
"width": "64"
},
"network:0_PCI:0000:41:00.0": {
"businfo": "pci@0000:41:00.0",
"capacity": "1000000000",
"clock": "33000000",
"description": "Ethernet interface",
"logicalname": "eth4",
"physid": "0",
"product": "NetXtreme II BCM57810 10 Gigabit Ethernet",
"serial": "00:0a:f7:41:7a:30",
"vendor": "Broadcom Corporation",
"version": "10",
"width": "64"
},
"network:1_": {
"description": "Ethernet interface",
"logicalname": "Bond10G",
"physid": "2",
"serial": "c8:1f:66:df:04:d6"
},
"network:1_PCI:0000:01:00.1": {
"businfo": "pci@0000:01:00.1",

```

```

"capacity": "1000000000",
"clock": "33000000",
"description": "Ethernet interface",
"logicalname": "eth1",
"physid": "0.1",
"product": "NetXtreme II BCM57800 1/10 Gigabit Ethernet",
"serial": "c8:1f:66:df:04:d8",
"vendor": "Broadcom Corporation",
"version": "10",
"width": "64"
},
"network:1_PCI:0000:41:00.1": {
"businfo": "pci@0000:41:00.1",
"capacity": "1000000000",
"clock": "33000000",
"description": "Ethernet interface",
"logicalname": "eth5",
"physid": "0.1",
"product": "NetXtreme II BCM57810 10 Gigabit Ethernet",
"serial": "00:0a:f7:41:7a:32",
"vendor": "Broadcom Corporation",
"version": "10",
"width": "64"
},
"network:2_PCI:0000:01:00.2": {
"businfo": "pci@0000:01:00.2",
"capacity": "1000000000",
"clock": "33000000",
"description": "Ethernet interface",
"logicalname": "eth2",
"physid": "0.2",
"product": "NetXtreme II BCM57800 1/10 Gigabit Ethernet",
"serial": "c8:1f:66:df:04:da",
"size": "1000000000",
"vendor": "Broadcom Corporation",
"version": "10",
"width": "64"
},
"network:3_PCI:0000:01:00.3": {
"businfo": "pci@0000:01:00.3",
"capacity": "1000000000",
"clock": "33000000",
"description": "Ethernet interface",
"logicalname": "eth3",
"physid": "0.3",
"product": "NetXtreme II BCM57800 1/10 Gigabit Ethernet",

```

```
"serial": "c8:1f:66:df:04:dc",
"size": "10000000000",
"vendor": "Broadcom Corporation",
"version": "10",
"width": "64"
},
"networkInterfaces": {
  "Bond10G": {
    "isConfigured": true,
    "isUp": true
  },
  "Bond1G": {
    "isConfigured": true,
    "isUp": true
  },
  "eth0": {
    "isConfigured": true,
    "isUp": true
  },
  "eth1": {
    "isConfigured": true,
    "isUp": true
  },
  "eth2": {
    "isConfigured": true,
    "isUp": true
  },
  "eth3": {
    "isConfigured": true,
    "isUp": true
  },
  "eth4": {
    "isConfigured": true,
    "isUp": true
  },
  "eth5": {
    "isConfigured": true,
    "isUp": true
  }
},
"platform": {
  "chassisType": "R620",
  "cpuModel": "Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz",
  "nodeMemoryGB": 32,
  "nodeType": "SFFC"
```

```

},
"powerSupplies": {
  "PS1 status": {
    "powerSupplyFailureDetected": false,
    "powerSupplyHasAC": true,
    "powerSupplyPredictiveFailureDetected": false,
    "powerSupplyPresent": true
  },
  "PS2 status": {
    "powerSupplyFailureDetected": false,
    "powerSupplyHasAC": true,
    "powerSupplyPredictiveFailureDetected": false,
    "powerSupplyPresent": true
  }
},
"storage": {
  "storage_PCI:0000:00:1f.2": {
    "businfo": "pci@0000:00:1f.2",
    "clock": "66000000",
    "description": "SATA controller",
    "physid": "1f.2",
    "product": "C600/X79 series chipset 6-Port SATA AHCI Controller",
    "vendor": "Intel Corporation",
    "version": "05",
    "width": "32"
  }
},
"system": {
  "fcv-2_DMI:0100": {
    "description": "Rack Mount Chassis",
    "product": "(SKU=NotProvided;ModelName=)",
    "serial": "HTX1DZ1",
    "width": "64"
  }
},
"temperatures": {
  "Exhaust Temp": {
    "baseUnit": "C",
    "threshold": 70,
    "value": 38
  },
  "Inlet Temp": {
    "baseUnit": "C",
    "threshold": 42,
    "value": 13
  }
},

```

```
"uuid": "4C4C4544-004D-5310-8052-C4C04F335431"
  }
}
}
}
}
```

GetNvramInfo

GetNvramInfo 方法返回类似于以下示例的响应。

```
{
  id: 1,
  result: {
    nvramInfo: {
      details: {
        errors: {
          numOfErrorLogEntries: "0"
        },
        extended: {
          dialogVersion: "4",
          event: [
            {
              name: "flushToFlash",
              time: "2014-02-24 20:30:28",
              value: "0"
            },
            {
              name: "flushToFlash",
              time: "1946-02-06 17:16:42",
              value: "0"
            },
            {
              name: "flushToFlash",
              time: "2014-02-25 00:48:06",
              value: "0"
            },
            {
              name: "flushToFlash",
              time: "2014-02-25 15:44:07",
              value: "0"
            },
            {
              name: "flushToFlash",
              time: "2014-03-17 17:21:46",
```

```

        value: "0"
    },
    {
        name: "flushToFlash",
        time: "2014-03-17 17:59:30",
        value: "0"
    },
    {
        name: "flushToFlash",
        time: "2014-03-17 18:06:27",
        value: "0"
    },
    {
        name: "flushToFlash",
        time: "2014-03-17 21:43:17",
        value: "0"
    },
    {
        name: "excessiveCurrent",
        time: "2014-02-25 00:00:29",
        value: "39"
    },
    {
        name: "excessiveCurrent",
        time: "2014-03-01 00:00:24",
        value: "23"
    }
],
eventOccurrences: [
    {
        count: "15",
        name: "flushToFlash"
    },
    {
        count: "2",
        name: "excessiveCurrent"
    }
],
initialCapacitance: "6.653 F",
initialEsr: "0.097 Ohm",
measurement: [
    {
        level_0: " 0",
        level_1: " 112",
        level_2: " 670919",
        level_3: " 455356",
        level_4: " 90215",
    }
]

```

```

        level_5: " 0",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name: "enterpriseFlashControllerTemperature",
        recent: "64 C"
    },
    {
        level_0: " 0",
        level_1: " 27",
        level_2: " 456896",
        level_3: " 717565",
        level_4: " 39422",
        level_5: " 2692",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name: "capacitor1And2Temperature",
        recent: "28.64 C"
    },
    {
        level_0: " 0",
        level_1: " 2080",
        level_2: " 907196",
        level_3: " 280178",
        level_4: " 26539",
        level_5: " 609",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name: "capacitor3And4Temperature",
        recent: "28.60 C"
    },
    {
        errorPeriod: {
            duration: "24",
            startTime: "2014-02-06 00:23:54",
            worst: "8"
        },
        level_0: " 0",
        level_1: " 839",
        level_2: " 272794",
        level_3: " 404758",

```

```

        level_4: " 35216",
        level_5: " 377818",
        level_6: " 103891",
        level_7: " 21274",
        level_8: " 12",
        level_9: " 0",
        name: "rearVentAmbientTemperature",
        recent: "46.82 C"
    },
    {
        level_0: " 0",
        level_1: " 742749",
        level_2: " 460016",
        level_3: " 13837",
        level_4: " 0",
        level_5: " 0",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name: "rms200BoardTemperature",
        recent: "50.62 C"
    },
    {
        name: "voltageOfCapacitor1",
        recent: "2.308 V"
    },
    {
        name: "voltageOfCapacitor2",
        recent: "2.305 V"},
    {
        name: "voltageOfCapacitor3",
        recent: "2.314 V"
    },
    {
        name: "voltageOfCapacitor4",
        recent: "2.307 V"
    },
    {
        level_0: " 175052",
        level_1: " 51173",
        level_2: " 435788",
        level_3: " 12766",
        level_4: " 4",
        level_5: " 6",
        level_6: " 541813",

```

```

        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name: "capacitorPackVoltage",
        recent: "9.233 V"
    },
    {
        level_0: " 0",
        level_1: " 0",
        level_2: " 0",
        level_3: " 0",
        level_4: " 0",
        level_5: " 0",
        level_6: " 4",
        level_7: " 1",
        level_8: " 4",
        level_9: " 6",
        name: "capacitorPackVoltageAtEndOfFlushToFlash",
        recent: "5.605 V"
    },
    {
        name: "currentDerivedFromV3V4",
        recent: "0.000 A"
    },
    {
        level_0: " 7",
        level_1: " 4",
        level_2: " 3",
        level_3: " 1",
        level_4: " 0",
        level_5: " 0",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name: "derivedEnergy",
        recent: "175 Joules"
    },
    {
        level_0: " 0",
        level_1: " 0",
        level_2: " 0",
        level_3: " 0",
        level_4: " 0",
        level_5: " 0",
        level_6: " 0",

```

```

        level_7: " 17",
        level_8: " 19",
        level_9: " 7",
        name: "derivedCapacitanceOfThePack",
        recent: "5.959 F"
    },
    {
        level_0: " 0",
        level_1: " 43",
        level_2: " 0",
        level_3: " 0",
        level_4: " 0",
        level_5: " 0",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name: "derivedEsrOfCapacitorPack",
        recent: "0.104 Ohm"
    },
    {
        level_0: " 0",
        level_1: " 0",
        level_2: " 0",
        level_3: " 0",
        level_4: " 15",
        level_5: " 0",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name: "timeToRunFlushToFlash",
        recent: "22.40 Seconds"
    },
    {
        level_0: " 0",
        level_1: " 0",
        level_2: " 7",
        level_3: " 0",
        level_4: " 0",
        level_5: " 0",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name: "timeToRunRestore",

```

```

        recent: "20.44 Seconds"
    },
    {
        level_0: " 0",
        level_1: " 1",
        level_2: " 3",
        level_3: " 2",
        level_4: " 0",
        level_5: " 0",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 1",
        name: "timeToChargeCapacitors",
        recent: "48 Seconds"
    },
    {
        level_0: " 448586",
        level_1: " 2998",
        level_2: " 0",
        level_3: " 0",
        level_4: " 0",
        level_5: " 0",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name: "correctableBitsInErrorOnReadingAPage"
    },
    {
        level_0: " 2998",
        level_1: " 0",
        level_2: " 0",
        level_3: " 0",
        level_4: " 0",
        level_5: " 0",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name:
"correctableBitsInErrorOnReadingTheWorstBchRegionOfAPage"
    },
    {
        level_0: " 0",
        level_1: " 37",

```

```

        level_2: " 280274",
        level_3: " 422999",
        level_4: " 245814",
        level_5: " 242470",
        level_6: " 24447",
        level_7: " 561",
        level_8: " 0",
        level_9: " 0",
        name: "fanInletAmbientTemperature",
        recent: "41.74 C"
    },
    predictedCapacitanceDepletion: "504328 uF",
    smartCounters: [
        {
            name: "numberOf512ByteBlocksReadFromDdr",
            value: "218284648"
        },
        {
            name: "numberOf512ByteBlocksWrittenToDdr",
            value: "12031567354"
        },
        {
            name: "numberOfHostReadCommands",
            value: "5366315"
        },
        {
            name: "numberOfHostWriteCommands",
            value: "1266099334"
        },
        {
            name: "controllerBusyTimeMinutes",
            value: "0"
        },
        {
            name: "numberOfPowerCycles",
            value: "13"
        },
        {
            name: "powerOnHours",
            value: "1009"
        },
        {
            name: "unsafeShutdowns",
            value: "5"
        }
    ],

```

```

    {
        name: "mediaErrors",
        value: "0"
    },
    {
        name: "numberOfErrorLogs",
        value: "2"
    }
],
snapshotTime: "2014-03-20 16:43:49"
},
firmware: {
    activeSlotNumber: "2",
    slot1Version: "1e5817bc",
    slot2Version: "1e0d70ac",
    slot3Version: "1e5817bc",
    slot4Version: "1e5817bc"
},
smart: {
    availableSpace: "0%",
    availableSpaceThreshold: "0%",
    controllerBusyTimeMinutes: "0",
    criticalErrorVector: "0x0",
    mediaErrors: "0",
    numberOf512ByteBlocksRead: "218284648",
    numberOf512ByteBlocksWritten: "12031567354",
    numberOfErrorInfoLogs: "2",
    numberOfHostReadCommands: "5366315",
    numberOfHostWriteCommands: "1266099334",
    numberOfPowerCycles: "13",
    powerOnHours: "1009",
    temperature: "323 Kelvin",
    unsafeShutdowns: "5"
}
},
status: "Warning",
statusInfo: {
warning: [
    "excessiveCurrent (2x)"
]
},
type: "RMS-200"
}
}

```

ListActiveNodes

ListActiveNodes 方法返回类似于以下示例的响应。

```
{
  "id": 1,
  "result": {
    "nodes": [
      {
        "associatedFServiceID": 0,
        "associatedMasterServiceID": 1,
        "attributes": {},
        "cip": "172.27.21.23",
        "cipi": "Bond10G",
        "fibreChannelTargetPortGroup": null,
        "mip": "172.27.1.23",
        "mipi": "Bond1G",
        "name": "PSN-1-23",
        "nodeID": 1,
        "platformInfo": {
          "chassisType": "R620",
          "cpuModel": "Intel(R) Xeon(R) CPU E5-2640 0 @
2.50GHz",
          "nodeMemoryGB": 72,
          "nodeType": "SF3010"
        },
        "sip": "172.27.21.23",
        "sipi": "Bond10G",
        "softwareVersion": "9.0.0.1298",
        "uuid": "4C4C4544-0056-3810-804E-B5C04F4C5631",
        "virtualNetworks": [
          {
            "address": "10.1.2.4",
            "virtualNetworkID": 1
          },
          {
            "address": "10.2.2.10",
            "virtualNetworkID": 2
          }
        ]
      },
      {
        "associatedFServiceID": 0,
        "associatedMasterServiceID": 4,
        "attributes": {},
```

```

2.50GHz",
    "cip": "172.27.21.24",
    "cipi": "Bond10G",
    "fibreChannelTargetPortGroup": null,
    "mip": "172.27.1.24",
    "mipi": "Bond1G",
    "name": "PSN-1-24",
    "nodeID": 2,
    "platformInfo": {
        "chassisType": "R620",
        "cpuModel": "Intel(R) Xeon(R) CPU E5-2640 0 @
2.50GHz",
        "nodeMemoryGB": 72,
        "nodeType": "SF3010"
    },
    "sip": "172.27.21.24",
    "sipi": "Bond10G",
    "softwareVersion": "9.0.0.1298",
    "uuid": "4C4C4544-0042-4210-804E-C3C04F4C5631",
    "virtualNetworks": [
        {
            "address": "10.1.2.5",
            "virtualNetworkID": 1
        },
        {
            "address": "10.2.2.11",
            "virtualNetworkID": 2
        }
    ]
},
{
    "associatedFServiceID": 0,
    "associatedMasterServiceID": 2,
    "attributes": {},
    "cip": "172.27.21.25",
    "cipi": "Bond10G",
    "fibreChannelTargetPortGroup": null,
    "mip": "172.27.1.25",
    "mipi": "Bond1G",
    "name": "PSN-1-25",
    "nodeID": 3,
    "platformInfo": {
        "chassisType": "R620",
        "cpuModel": "Intel(R) Xeon(R) CPU E5-2640 0 @
2.50GHz",
        "nodeMemoryGB": 72,
        "nodeType": "SF3010"
    }
}

```

```

    },
    "sip": "172.27.21.25",
    "sipi": "Bond10G",
    "softwareVersion": "9.0.0.1298",
    "uuid": "4C4C4544-0053-4210-8051-C6C04F515631",
    "virtualNetworks": [
      {
        "address": "10.1.2.6",
        "virtualNetworkID": 1
      },
      {
        "address": "10.2.2.12",
        "virtualNetworkID": 2
      }
    ]
  },
  {
    "associatedFServiceID": 0,
    "associatedMasterServiceID": 3,
    "attributes": {},
    "cip": "172.27.21.26",
    "cipi": "Bond10G",
    "fibreChannelTargetPortGroup": null,
    "mip": "172.27.1.26",
    "mipi": "Bond1G",
    "name": "PSN-1-26",
    "nodeID": 4,
    "platformInfo": {
      "chassisType": "R620",
      "cpuModel": "Intel(R) Xeon(R) CPU E5-2640 0 @
2.50GHz",
      "nodeMemoryGB": 72,
      "nodeType": "SF3010"
    },
    "sip": "172.27.21.26",
    "sipi": "Bond10G",
    "softwareVersion": "9.0.0.1298",
    "uuid": "4C4C4544-0056-3810-804E-B4C04F4C5631",
    "virtualNetworks": [
      {
        "address": "10.1.2.7",
        "virtualNetworkID": 1
      },
      {
        "address": "10.2.2.13",
        "virtualNetworkID": 2
      }
    ]
  }
}

```

```

    }
  ]
}
}

```

ListActiveVolumes

ListActiveVolumes 方法返回类似于以下示例的响应。

```

{
  "id": 1,
  "result": {
    "volumes": [
      {
        "access": "readWrite",
        "accountID": 1,
        "attributes": {},
        "blockSize": 4096,
        "createTime": "2016-06-23T14:19:12Z",
        "deleteTime": "",
        "enable512e": false,
        "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo1.1",
        "name": "HulkDemo1",
        "purgeTime": "",
        "qos": {
          "burstIOPS": 1500,
          "burstTime": 60,
          "curve": {
            "4096": 100,
            "8192": 160,
            "16384": 270,
            "32768": 500,
            "65536": 1000,
            "131072": 1950,
            "262144": 3900,
            "524288": 7600,
            "1048576": 15000
          },
          "maxIOPS": 1000,
          "minIOPS": 100
        },
        "scsiEUIDeviceID": "306f746f000000001f47acc0100000000",
        "scsiNAADeviceID": "6f47acc1000000000306f746f00000001",

```

```

        "sliceCount": 1,
        "status": "active",
        "totalSize": 53687091200,
        "virtualVolumeID": null,
        "volumeAccessGroups": [
            1
        ],
        "volumeID": 1,
        "volumePairs": []
    },
    {
        "access": "readWrite",
        "accountID": 1,
        "attributes": {},
        "blockSize": 4096,
        "createTime": "2016-06-23T14:19:14Z",
        "deleteTime": "",
        "enable512e": false,
        "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo6.6",
        "name": "HulkDemo6",
        "purgeTime": "",
        "qos": {
            "burstIOPS": 1500,
            "burstTime": 60,
            "curve": {
                "4096": 100,
                "8192": 160,
                "16384": 270,
                "32768": 500,
                "65536": 1000,
                "131072": 1950,
                "262144": 3900,
                "524288": 7600,
                "1048576": 15000
            },
            "maxIOPS": 1000,
            "minIOPS": 100
        },
        "scsiEUIDeviceID": "306f746f000000006f47acc01000000000",
        "scsiNAADeviceID": "6f47acc1000000000306f746f000000006",
        "sliceCount": 1,
        "status": "active",
        "totalSize": 53687091200,
        "virtualVolumeID": null,
        "volumeAccessGroups": [
            1

```

```

    ],
    "volumeID": 6,
    "volumePairs": []
  },
  {
    "access": "readWrite",
    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-23T14:19:14Z",
    "deleteTime": "",
    "enable512e": false,
    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo7.7",
    "name": "HulkDemo7",
    "purgeTime": "",
    "qos": {
      "burstIOPS": 1500,
      "burstTime": 60,
      "curve": {
        "4096": 100,
        "8192": 160,
        "16384": 270,
        "32768": 500,
        "65536": 1000,
        "131072": 1950,
        "262144": 3900,
        "524288": 7600,
        "1048576": 15000
      },
      "maxIOPS": 1000,
      "minIOPS": 100
    },
    "scsiEUIDeviceID": "306f746f000000007f47acc0100000000",
    "scsiNAADeviceID": "6f47acc1000000000306f746f00000007",
    "sliceCount": 1,
    "status": "active",
    "totalSize": 53687091200,
    "virtualVolumeID": null,
    "volumeAccessGroups": [
      1
    ],
    "volumeID": 7,
    "volumePairs": []
  },
  {
    "access": "readWrite",

```

```

    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-23T14:19:15Z",
    "deleteTime": "",
    "enable512e": false,
    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo8.8",
    "name": "HulkDemo8",
    "purgeTime": "",
    "qos": {
      "burstIOPS": 1500,
      "burstTime": 60,
      "curve": {
        "4096": 100,
        "8192": 160,
        "16384": 270,
        "32768": 500,
        "65536": 1000,
        "131072": 1950,
        "262144": 3900,
        "524288": 7600,
        "1048576": 15000
      },
      "maxIOPS": 1000,
      "minIOPS": 100
    },
    "scsiEUIDeviceID": "306f746f000000008f47acc0100000000",
    "scsiNAADeviceID": "6f47acc1000000000306f746f00000008",
    "sliceCount": 1,
    "status": "active",
    "totalSize": 53687091200,
    "virtualVolumeID": null,
    "volumeAccessGroups": [
      1
    ],
    "volumeID": 8,
    "volumePairs": []
  },
  {
    "access": "readWrite",
    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-23T14:19:15Z",
    "deleteTime": "",
    "enable512e": false,

```

```

    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo9.9",
    "name": "HulkDemo9",
    "purgeTime": "",
    "qos": {
        "burstIOPS": 1500,
        "burstTime": 60,
        "curve": {
            "4096": 100,
            "8192": 160,
            "16384": 270,
            "32768": 500,
            "65536": 1000,
            "131072": 1950,
            "262144": 3900,
            "524288": 7600,
            "1048576": 15000
        },
        "maxIOPS": 1000,
        "minIOPS": 100
    },
    "scsiEUIDeviceID": "306f746f000000009f47acc01000000000",
    "scsiNAADeviceID": "6f47acc1000000000306f746f000000009",
    "sliceCount": 1,
    "status": "active",
    "totalSize": 53687091200,
    "virtualVolumeID": null,
    "volumeAccessGroups": [
        1
    ],
    "volumeID": 9,
    "volumePairs": []
},
{
    "access": "readWrite",
    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-23T14:19:16Z",
    "deleteTime": "",
    "enable512e": false,
    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo12.12",
    "name": "HulkDemo12",
    "purgeTime": "",
    "qos": {
        "burstIOPS": 1500,
        "burstTime": 60,

```

```

        "curve": {
            "4096": 100,
            "8192": 160,
            "16384": 270,
            "32768": 500,
            "65536": 1000,
            "131072": 1950,
            "262144": 3900,
            "524288": 7600,
            "1048576": 15000
        },
        "maxIOPS": 1000,
        "minIOPS": 100
    },
    "scsiEUIDeviceID": "306f746f00000000cf47acc0100000000",
    "scsiNAADeviceID": "6f47acc100000000306f746f00000000c",
    "sliceCount": 1,
    "status": "active",
    "totalSize": 53687091200,
    "virtualVolumeID": null,
    "volumeAccessGroups": [
        1
    ],
    "volumeID": 12,
    "volumePairs": []
},
{
    "access": "readWrite",
    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-23T14:19:18Z",
    "deleteTime": "",
    "enable512e": false,
    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo16.16",
    "name": "HulkDemo16",
    "purgeTime": "",
    "qos": {
        "burstIOPS": 1500,
        "burstTime": 60,
        "curve": {
            "4096": 100,
            "8192": 160,
            "16384": 270,
            "32768": 500,
            "65536": 1000,

```

```

        "131072": 1950,
        "262144": 3900,
        "524288": 7600,
        "1048576": 15000
    },
    "maxIOPS": 1000,
    "minIOPS": 100
},
"scsiEUIDeviceID": "306f746f00000010f47acc0100000000",
"scsiNAADeviceID": "6f47acc100000000306f746f00000010",
"sliceCount": 1,
"status": "active",
"totalSize": 53687091200,
"virtualVolumeID": null,
"volumeAccessGroups": [
    1
],
"volumeID": 16,
"volumePairs": []
},
{
    "access": "readWrite",
    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-23T14:19:18Z",
    "deleteTime": "",
    "enable512e": false,
    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo17.17",
    "name": "HulkDemo17",
    "purgeTime": "",
    "qos": {
        "burstIOPS": 1500,
        "burstTime": 60,
        "curve": {
            "4096": 100,
            "8192": 160,
            "16384": 270,
            "32768": 500,
            "65536": 1000,
            "131072": 1950,
            "262144": 3900,
            "524288": 7600,
            "1048576": 15000
        },
        "maxIOPS": 1000,

```

```

        "minIOPS": 100
    },
    "scsiEUIDeviceID": "306f746f00000011f47acc0100000000",
    "scsiNAADeviceID": "6f47acc100000000306f746f00000011",
    "sliceCount": 1,
    "status": "active",
    "totalSize": 53687091200,
    "virtualVolumeID": null,
    "volumeAccessGroups": [
        1
    ],
    "volumeID": 17,
    "volumePairs": []
},
{
    "access": "readWrite",
    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-23T14:19:18Z",
    "deleteTime": "",
    "enable512e": false,
    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo18.18",
    "name": "HulkDemo18",
    "purgeTime": "",
    "qos": {
        "burstIOPS": 1500,
        "burstTime": 60,
        "curve": {
            "4096": 100,
            "8192": 160,
            "16384": 270,
            "32768": 500,
            "65536": 1000,
            "131072": 1950,
            "262144": 3900,
            "524288": 7600,
            "1048576": 15000
        },
        "maxIOPS": 1000,
        "minIOPS": 100
    },
    "scsiEUIDeviceID": "306f746f00000012f47acc0100000000",
    "scsiNAADeviceID": "6f47acc100000000306f746f00000012",
    "sliceCount": 1,
    "status": "active",

```

```

    "totalSize": 53687091200,
    "virtualVolumeID": null,
    "volumeAccessGroups": [
      1
    ],
    "volumeID": 18,
    "volumePairs": []
  },
  {
    "access": "readWrite",
    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-24T15:21:59Z",
    "deleteTime": "",
    "enable512e": true,
    "iqn": "iqn.2010-01.com.solidfire:0oto.bk.24",
    "name": "BK",
    "purgeTime": "",
    "qos": {
      "burstIOPS": 15000,
      "burstTime": 60,
      "curve": {
        "4096": 100,
        "8192": 160,
        "16384": 270,
        "32768": 500,
        "65536": 1000,
        "131072": 1950,
        "262144": 3900,
        "524288": 7600,
        "1048576": 15000
      },
      "maxIOPS": 15000,
      "minIOPS": 50
    },
    "scsiEUIDeviceID": "306f746f000000018f47acc01000000000",
    "scsiNAADeviceID": "6f47acc1000000000306f746f000000018",
    "sliceCount": 1,
    "status": "active",
    "totalSize": 10737418240,
    "virtualVolumeID": null,
    "volumeAccessGroups": [],
    "volumeID": 24,
    "volumePairs": [
      {

```

```

        "clusterPairID": 2,
        "remoteReplication": {
            "mode": "Async",
            "pauseLimit": 3145728000,
            "remoteServiceID": 14,
            "resumeDetails": "",
            "snapshotReplication": {
                "state": "Idle",
                "stateDetails": ""
            },
            "state": "Active",
            "stateDetails": ""
        },
        "remoteSliceID": 8,
        "remoteVolumeID": 8,
        "remoteVolumeName": "PairingDoc",
        "volumePairUUID": "229fcbf3-2d35-4625-865a-
d04bb9455cef"
    }
}

```

TestHardwareConfig

TestHardwareConfig 方法返回类似于以下示例的响应。

```

{
  "id": 1,
  "result": {
    "nodes": [
      {
        "nodeID": 1,
        "result": {
          "details": {
            "BIOS_REVISION": {
              "Passed": true,
              "actual": "2.0",
              "comparator": ">=",
              "expected": "1.0.0.0"
            },
            "BIOS_VENDOR": {
              "Passed": true,

```

```

        "actual": "SolidFire",
        "comparator": "==",
        "expected": "SolidFire"
    },
    "BIOS_VERSION": {
        "Passed": true,
        "actual": "2.0.19",
        "comparator": ">=",
        "expected": "2.0.19"
    },
    "CPU_CORES_00": {
        "Passed": true,
        "actual": "6",
        "comparator": "==",
        "expected": "6"
    },
    "CPU_CORES_01": {
        "Passed": true,
        "actual": "6",
        "comparator": "==",
        "expected": "6"
    },
    "CPU_CORES_ENABLED_00": {
        "Passed": true,
        "actual": "6",
        "comparator": "==",
        "expected": "6"
    },
    "CPU_CORES_ENABLED_01": {
        "Passed": true,
        "actual": "6",
        "comparator": "==",
        "expected": "6"
    },
    "CPU_MODEL_00": {
        "Passed": true,
        "actual": "Intel(R) Xeon(R) CPU E5-2620 v2 @
2.10GHz",
        "comparator": "==",
        "expected": "Intel(R) Xeon(R) CPU E5-2620 v2 @
2.10GHz"
    },
    "CPU_MODEL_01": {
        "Passed": true,
        "actual": "Intel(R) Xeon(R) CPU E5-2620 v2 @
2.10GHz",

```

2.10GHz"

```
    "comparator": "==",
    "expected": "Intel(R) Xeon(R) CPU E5-2620 v2 @
2.10GHz"
  },
  "CPU_THREADS_00": {
    "Passed": true,
    "actual": "12",
    "comparator": "==",
    "expected": "12"
  },
  "CPU_THREADS_01": {
    "Passed": true,
    "actual": "12",
    "comparator": "==",
    "expected": "12"
  },
  "CPU_THREADS_ENABLED": {
    "Passed": true,
    "actual": "24",
    "comparator": "==",
    "expected": "24"
  },
  "IDRAC_VERSION": {
    "Passed": true,
    "actual": "2.41.40.40",
    "comparator": ">=",
    "expected": "1.06.06"
  },
  "MEMORY_GB": {
    "Passed": true,
    "actual": "64",
    "comparator": ">=",
    "expected": "64"
  },
  "MEMORY_MHZ_00": {
    "Passed": true,
    "actual": "1600",
    "comparator": ">=",
    "expected": "1333"
  },
  "MEMORY_MHZ_01": {
    "Passed": true,
    "actual": "1600",
    "comparator": ">=",
    "expected": "1333"
  },
}
```

```

"MEMORY_MHZ_02": {
    "Passed": true,
    "actual": "1600",
    "comparator": ">=",
    "expected": "1333"
},
"MEMORY_MHZ_03": {
    "Passed": true,
    "actual": "1600",
    "comparator": ">=",
    "expected": "1333"
},
"MEMORY_MHZ_04": {
    "Passed": true,
    "actual": "1600",
    "comparator": ">=",
    "expected": "1333"
},
"MEMORY_MHZ_05": {
    "Passed": true,
    "actual": "1600",
    "comparator": ">=",
    "expected": "1333"
},
"MEMORY_MHZ_06": {
    "Passed": true,
    "actual": "1600",
    "comparator": ">=",
    "expected": "1333"
},
"MEMORY_MHZ_07": {
    "Passed": true,
    "actual": "1600",
    "comparator": ">=",
    "expected": "1333"
},
"MPTSAS_BIOS_VERSION": {
    "Passed": true,
    "actual": "07.24.01.00",
    "comparator": "ANY",
    "expected": "7.25.0.0"
},
"MPTSAS_FIRMWARE_VERSION": {
    "Passed": true,
    "actual": "13.00.57.00",
    "comparator": "==",

```

```

        "expected": "13.0.57.0"
    },
    "NETWORK_DRIVER_ETH0": {
        "Passed": true,
        "actual": "bnx2x",
        "comparator": "==",
        "expected": "bnx2x"
    },
    "NETWORK_DRIVER_ETH1": {
        "Passed": true,
        "actual": "bnx2x",
        "comparator": "==",
        "expected": "bnx2x"
    },
    "NETWORK_DRIVER_ETH2": {
        "Passed": true,
        "actual": "bnx2x",
        "comparator": "==",
        "expected": "bnx2x"
    },
    "NETWORK_DRIVER_ETH3": {
        "Passed": true,
        "actual": "bnx2x",
        "comparator": "==",
        "expected": "bnx2x"
    },
    "NETWORK_FIRMWARE_VERSION_ETH0": {
        "Passed": true,
        "actual": "7.10.18-solidfire-5f3ccbc781d53",
        "comparator": "==",
        "expected": "7.10.18-solidfire-5f3ccbc781d53"
    },
    "NETWORK_FIRMWARE_VERSION_ETH1": {
        "Passed": true,
        "actual": "7.10.18-solidfire-5f3ccbc781d53",
        "comparator": "==",
        "expected": "7.10.18-solidfire-5f3ccbc781d53"
    },
    "NETWORK_FIRMWARE_VERSION_ETH2": {
        "Passed": true,
        "actual": "7.10.18-solidfire-5f3ccbc781d53",
        "comparator": "==",
        "expected": "7.10.18-solidfire-5f3ccbc781d53"
    },
    "NETWORK_FIRMWARE_VERSION_ETH3": {
        "Passed": true,

```

```

        "actual": "7.10.18-solidfire-5f3ccbc781d53",
        "comparator": "==",
        "expected": "7.10.18-solidfire-5f3ccbc781d53"
    },
    "NUM_CPU": {
        "Passed": true,
        "actual": "2",
        "comparator": "==",
        "expected": "2"
    },
    "Parse failure in /var/log/sf-bios.info": {
        "Passed": true,
        "actual": "false",
        "comparator": "==",
        "expected": "false"
    }
},
"duration": "00:00:00.195067",
"result": "Passed"
}
]
}
}

```

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