

SX-Aurora TSUBASA

NEC MPI Administrator's Guide

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Preface

This document describes system environment configuration that is necessary for use of NEC MPI

Target Users

- Target readers of this document are administrators of NEC MPI.

Related Document

- NEC MPI User's Guide

Notation Convention

- # in the command line
is a bash (Bourne-Again Shell) prompt of super-user.

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Chapter 1 Environment Configuration

The environment described below must be configured on every VHs where MPI program runs on.

1.1 SELinux Setting

Please turn on `use_nfs_home_dirs` of SELinux parameter, if MPI program is executed over multiple VHs and a home directory is located on remote file system mounted by NFS or ScaTeFS.

```
# setsebool -P use_nfs_home_dirs 1
```

Then, the SELinux setting is completed, if the following command tells

"`use_nfs_home_dirs --> on`".

```
getsebool use_nfs_home_dirs  
use_nfs_home_dirs --> on
```

1.2 Firewall Setting

Please make some TCP/IP ports accessible from outside. NEC MPI will use TCP/IP ports 25257 through 25266 by default in order to accept connections. The following command is an example to make ports 25257 through 25266 open.

```
# firewall-cmd --zone=public --permanent --add-port=25257-25266/tcp  
# firewall-cmd --reload
```

Then, the firewall setting is completed, if the following command tells the open ports.

```
# firewall-cmd --list-port --zone=public  
25257-25266/tcp
```

Note that TCP/IP ports that NEC MPI will use can be changed with environment variable `NMPI_PORT_RANGE`.

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