

Alibaba Cloud Apsara File Storage NAS

FAQ

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Generic conventions

Table -1: Style conventions

| Style | Description | Example |
|---|--|--|
|  | This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results. |  Danger: Resetting will result in the loss of user configuration data. |
|  | This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results. |  Warning: Restarting will cause business interruption. About 10 minutes are required to restore business. |
|  | This indicates warning information, supplementary instructions, and other content that the user must understand. |  Notice: Take the necessary precautions to save exported data containing sensitive information. |
| | This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user. |  Note: You can use Ctrl + A to select all files. |
| > | Multi-level menu cascade. | Settings > Network > Set network type |
| Bold | It is used for buttons, menus, page names, and other UI elements. | Click OK. |
| Courier font | It is used for commands. | Run the <code>cd / d C :/ windows</code> command to enter the Windows system folder. |
| <i>Italics</i> | It is used for parameters and variables. | <code>bae log list --instanceid Instance_ID</code> |
| [] or [a b] | It indicates that it is an optional value, and only one item can be selected. | <code>ipconfig [-all -t]</code> |

| Style | Description | Example |
|---------------------------------------|--|------------------------------------|
| <code>{}</code> or <code>{a b}</code> | It indicates that it is a required value, and only one item can be selected. | <code>swich {stand slave}</code> |

Contents

| | |
|-------------------------------------|---|
| Legal disclaimer..... | I |
| Generic conventions..... | I |
| 1 FAQ..... | 1 |
| 2 Scale and performance issues..... | 3 |

1 FAQ

What is CPFS?

Alibaba Cloud CPFS is an expandable parallel file system that meets the requirements for high-performance computational scenarios. CPFS provides a unified namespace that enables concurrent access from hundreds of thousands of clients. The performance of a CPFS file system can reach a throughput of hundreds of Gbit/s, an IOPS of millions, and sub-millisecond level latency.

What are the most applicable scenarios for CPFS?

CPFS can meet the file storage requirements for computing-intensive scenarios, such as machine learning, big data analysis, media processing, and high-performance computational (HPC) scenarios including DNA sequencing, hydrocarbon exploration, and meteorological reanalysis.

How can I activate CPFS and create a CPFS file system?

If you have signed in Alibaba Cloud, after activating Network Attached Storage (NAS), you can log on to the [NAS console](#) to activate CPFS. If you need to use CPFS, you must first subscribe to a CPFS package to create a CPFS file system. In general, it takes several minutes to create a file system. After the file system is created, you can use computational instances to access and use the file system.

How can I access a CPFS file system by using computational instances?

You must download and install a [CPFS client](#) on a computational instance, and then mount a CPFS file system on the instance.

How can I access and process Object Storage Service (OSS) files in a CPFS system?

You can download OSS files to a CPFS file system for processing by using the ossutil tool.

Is CPFS compatible with the Portable Operating System Interface (POSIX)?

Yes, CPFS is compatible with POSIX.

How can I purchase CPFS? Which specifications are available?

You must subscribe to a CPFS package to create a file system with a certain specification. You can select a file system specification of 50 TB, 100 TB, or 150 TB. Each specification has a duration of one month, six months, or one year, respectively.

2 Scale and performance issues

What is the maximum performance specifications of Cloud Paralleled File System (CPFS)?

CPFS can provide a peak bandwidth of hundreds of GB, an IOPS of millions, and sub-millisecond level latency. The bandwidth and IOPS change with the specification of a file system that you purchase. For a CPFS file system of 50 TB, it provides a bandwidth of 5 GB and 350,000 IOPS.

How can I change the performance of a CPFS file system?

After a file system is created, the capacity and performance of the file system are fixed. You cannot change the capacity and performance of the file system. However, you can upgrade the specification of an existing file system. The performance of the file system improves when you select a higher specification.