

The Panasas® Advanced Storage Engineer Certification course builds upon the knowledge gained in the System Administration Training and Certification Course, which is a prerequisite for this course. Its curriculum covers advanced troubleshooting and system management. Upon successful completion of this course, the Certified Advanced Storage Engineer will function as the subject matter expert for the Panasas Storage Cluster within their organization and be able to solve most problems that occur.

Emphasis is placed on a deeper understanding of object-based storage concepts and theory. File and object layout is discussed in further detail so that performance optimizations and trade-offs can be considered. Next, bladeset/volume layout is addressed as it relates to overall file-system performance. Additionally, advanced troubleshooting techniques are explored, as well as, details on how to collect client/gateway tracing. Finally, Panasas ActiveGuard™ High Availability software features are detailed to include implementation and troubleshooting.

MODULES INCLUDED

- Bladeset and Volume Performance Considerations
- FSRC/Reconstruction Considerations
- File/Object Layouts
- PanFS™ Parallel File System Processes
- PanFS Parallel File System Tracing
- Advanced NFS Troubleshooting
- High Availability Features, Configuration and Planning
- DNS Delegation and Load Balancing
- SNMP
- PanFS Parallel File System Application Toolkit
- Hands-On Troubleshooting Scenarios
- Log File Analysis

PREREQUISITES

- Successful completion of Panasas System Administration Training and Certification

All attendees must have a basic understanding of:

- General IP Networking
- Disk RAID Concepts
- Familiarity of NFS and/or File-System Usage
- Experience Interfacing with UNIX® and/or Linux®

EQUIPMENT

Each student is partnered with two or three individuals to participate in hands-on lab exercises using Panasas equipment.

TARGET AUDIENCE

- Storage Network Engineers
- Storage Specialists
- Storage Administrators and/or Data Center Operators

INSTRUCTOR LED TRAINING

Courses are taught at Panasas' facilities in Pittsburgh, PA, and Fremont, CA. In addition, we offer training at the customer's office provided certain accommodations are made for equipment and facilities. Regardless of location, all training classes are facilitated by Panasas personnel that have a very diverse, hands-on technical background. Panasas equipment is used with course content directly developed by the Panasas Global Services team.

Please email training@panasas.com to learn more about the training programs and options available.

STUDENT CANCELLATION POLICY

Individual training registrants cancelling scheduled for class at a Panasas facility have the option to register for another class or receive a full refund provided Panasas is notified at least 14 calendar days, before the course start date. Any cancellation made within two weeks of the scheduled class start date will be charged the full training course fee. Registration may be transferred to another student provided they possess adequate knowledge on the prerequisite course material.

CANCELLATION FOR CUSTOMER SITE TRAINING SESSIONS

Customers can cancel or reschedule customer site training without penalty up to 14 calendar days prior to the course start date. Full charges can apply if cancellation is made fewer than 14 calendar days before the course start date.

COURSE CANCELLATION POLICY BY PANASAS

Panasas requires a minimum of four students per class for training delivered at a Panasas facility. We reserve the right to change course schedules, modify course content, or cancel a class when necessary. If we elect to cancel a class, we will make every effort to notify all registrants a minimum of 14 days prior to the scheduled start date. Panasas is not responsible for airline or hotel penalties incurred because of canceled courses.

PREREQUISITES

Students are responsible for complying with all prerequisite material. Students who demonstrate a gap in the prerequisite knowledge may be requested to limit their questions during class time so as to not impede the overall progress of the class.

CLASS PARTICIPATION

Attendance is the responsibility of the registrant. In order to successfully complete a course, 100% attendance is required. If a registrant fails to appear for a scheduled class or fails to complete the entire course, the full course fee is charged and certification is not guaranteed.

CERTIFICATION

Successful completion of the Panasas Advanced Storage Engineer course ensures a deeper understanding of object based file system concepts, advanced troubleshooting techniques and performance-related configurations to consider while deploying PanFS Parallel File System in your operational environment. Students who attend all presentation material, pass the final exam and complete all practical application exercises are awarded a certificate of completion by Panasas Global Services.

CONFIRMATION

Panasas will send you a confirmation letter upon registration. We recommend that you bring it to class to confirm class attendance eligibility.

Panasas On-Site Course Details

Course Title:	Panasas Advanced Storage Engineer Training and Certification
Course Number:	SVC-EDU-200-PAN
Delivery Method:	Instructor-Led
Location:	Panasas offices in either Pittsburgh, PA, or Fremont, CA
Content:	Training book, hands-on labs, technical papers
Duration:	Four days
Price:	Email training@panasas.com for quote
Format:	2-3 Students per System (Panasas Supplied Equipment)
Min. Students per Class:	4
Max. Students per Class:	10
Class Frequency:	Once every 3-4 months

Customer On-Site Course Details

Course Title:	Panasas Advanced Storage Engineer Training and Certification
Course Number:	SVC-EDU-200-CUST
Delivery Method:	Instructor-Led
Location:	Customer Site
Content:	Training book, hands-on labs, technical papers
Duration:	Four days
Price:	Email training@panasas.com for quote
Format:	2-3 Students per System (Panasas Supplied Equipment)
Min. Students per Class:	1
Max. Students per Class:	12
Class Frequency:	As Required
Requirements:	Customer to supply Panasas shelves and clients
Panasas supplied equipment:	Available for an additional fee



Accelerating Time to Results™ with Clustered Storage

6520 Kaiser Drive Fremont, California 94555 Phone: 1-888-PANASAS Fax: 510-608-4798 www.panasas.com
 1-888-PANASAS (US & Canada) 00 (800) PANASAS2 (UK and France) 00 (800) 787-702 (Italy) +001 (510) 608-7790 (All Other Countries)

©2007 Panasas Incorporated. All rights reserved. Panasas, the Panasas logo, Accelerating Time to Results and PanFS are trademarks or registered trademarks of Panasas, Inc. in the United States and other countries. All other trademarks are the property of their respective owners.