



Get started

Active IQ Digital Advisor

NetApp
May 13, 2022

Table of Contents

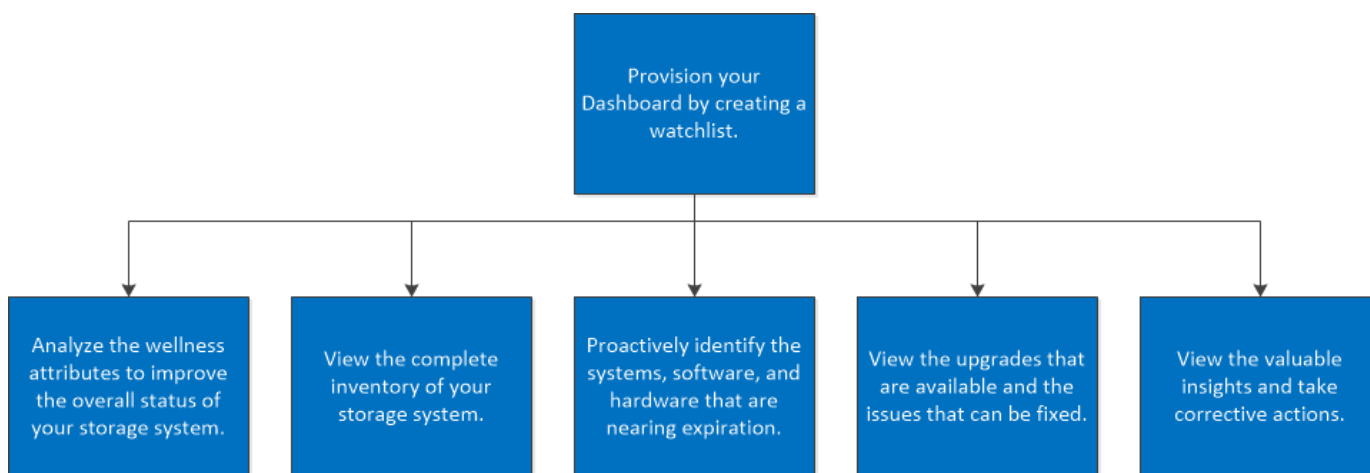
- Get started 1
 - Quick start for Active IQ Digital Advisor 1
 - Understand Active IQ features 2
 - Key concepts 3
 - AutoSupport 5
 - Log in to Active IQ Digital Advisor 6
 - Manage your clusters in Cloud Manager 6

Get started

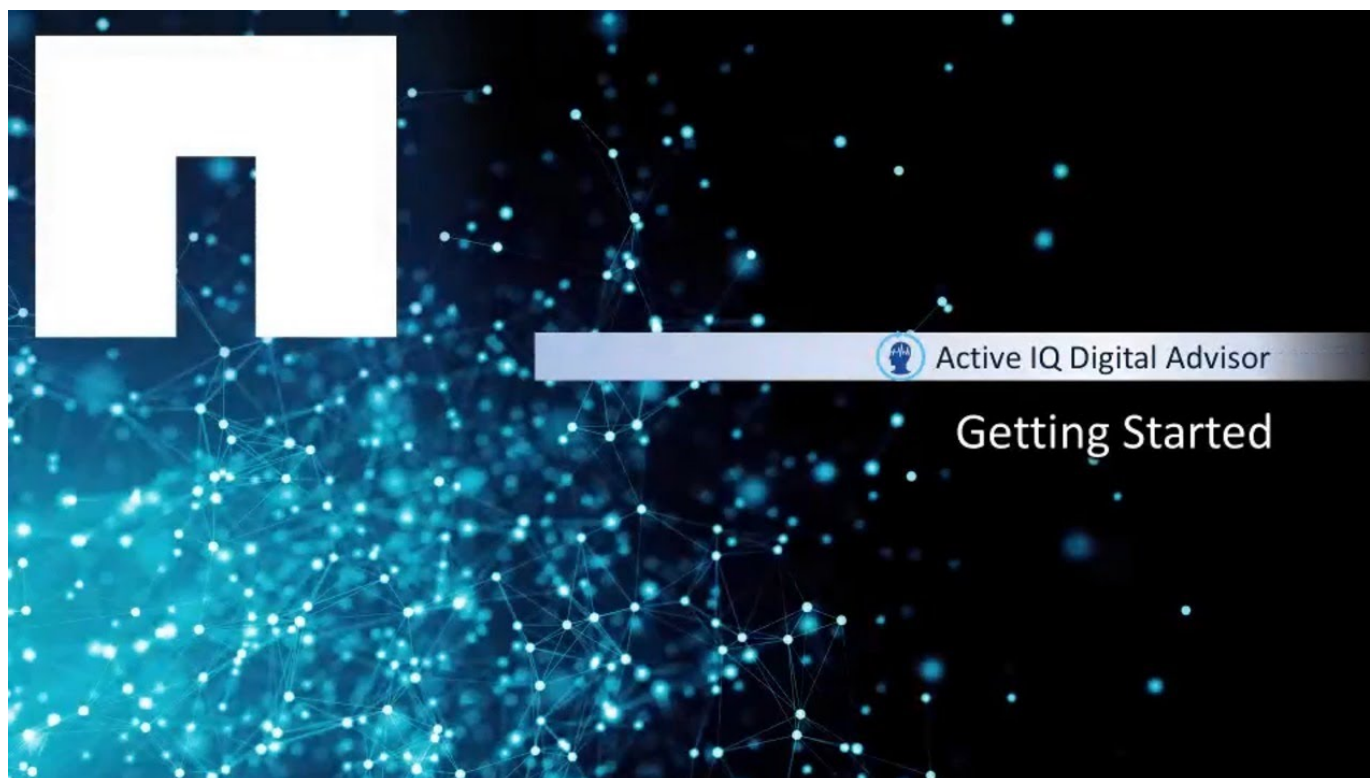
Quick start for Active IQ Digital Advisor

Active IQ Digital Advisor has been enhanced and redesigned to help you perform tasks more effectively. The user interface has been developed to guide you to perform your desired goals.

You can look at the following diagram to understand the workflows of Active IQ Digital Advisor.



You can view the following video to get started with Active IQ Digital Advisor:



All Active IQ Digital Advisor widgets are not supported on all platforms. Active IQ Digital Advisor identifies the platform of your storage system and displays only the set of tasks that can be performed on your storage

system.

Read the following information to be aware of the widgets that are supported on your storage system.

Widget	Customer	Cluster	Node
Wellness	Supported on all platforms	Supported on all platforms	Supported on all platforms
Renewals	Supported on all platforms	Supported on all platforms	Supported on all platforms
Capacity Additions	Supported only on ONTAP platforms (Data ONTAP operating in 7-Mode and clustered Data ONTAP)	Supported only on ONTAP platforms (Data ONTAP operating in 7-Mode and clustered Data ONTAP)	Supported only on ONTAP platforms (Data ONTAP operating in 7-Mode and clustered Data ONTAP)
Inventory	Supported on all platforms	Supported only on clustered Data ONTAP	Supported only on clustered Data ONTAP
Upgrades	Supported only on clustered Data ONTAP	Supported only on clustered Data ONTAP	Supported only on clustered Data ONTAP

Understand Active IQ features

You can view the overall status of your storage system, high-level information about the wellness of the system, inventory, planning, upgrades, and valuable insights at a watchlist level using Active IQ Digital Advisor.

When you access Active IQ Digital Advisor for the first time, you can either create a watchlist or search for a customer name, site name, group name, StorageGRID, hostname, cluster, serial number, or system ID.

You should also be aware of the colors applied to the cards, which indicate the severity and type of risks.

The following are some of the features of Active IQ Digital Advisor:

- View multiple watchlists, actionable and useful at-a-glance views of information
- Gain insights regarding all the risks to your storage system and the actions to mitigate the risks
- Mitigate risks using Active IQ Unified Manager
- Upgrade your storage system
- View storage efficiency ratio, the logical space used, the physical space used, and the total data saved for storage systems running ONTAP 9.1 and later
- Analyze the performance of your storage devices by viewing the graphical format of performance data
- Get information about the hardware and software that have expired or are near-expiration within the next 6 months
- Update your ONTAP firmware using Ansible
- Get details about systems that have exceeded 90% capacity or are nearing 90% capacity
- View detailed physical and logical configuration information, including a summary of the cluster and node configuration, the local tier and volume information, the network interface and port information, a stack diagram detailing information about the disks and shelves, and a few cable visualizations

- Provide cross-stack information and insights that are beneficial for troubleshooting, upgrade assessments, solution validation, and migration
- Check the compatibility of hosts, and provide upgrade recommendations for host operating systems, drivers, and firmware
- Arrive at exactly what you want to find in a smarter and faster manner






You can upgrade the support offering from the **Configuration** widget on the system dashboard to gain insights on your install base and receive personalized support.

Key concepts

As you start using Active IQ Digital Advisor, it is important that you understand some of the basic terms that you can expect to see throughout the Active IQ Digital Advisor.

- **Watchlist:** Provides you the flexibility to access systems inside Active IQ Digital Advisor that have already been selected. You can use watchlists to add systems from either one or more customers.
 - **Wellness Dashboard:** Provides an overall status of the systems in the watchlist.
 - **Widgets:** Displays small applications on the Dashboard that provide you a quick summary of the status of the systems.
 - **Risks:** Displays a list of systems with their respective issues. It has different severity levels:
 - High risks
 - Medium risks
 - No risks
 - **Unique Risks:** Displays the risk names and number of systems for a specific risk category.
 - **Actions:** Displays the number of unique actions that you can take to fix the issues.
 - **Color-coded risk status:** Displays risk levels and their color codes that are classified into 3 levels on the basis of their severity levels. The use of colors allows a faster assessment of the levels of risk involved.

Color	Severity
	High
	Medium
	No risks

- **Wellness widget:** Displays information about the performance, efficiency, capacity, configuration settings, security vulnerabilities, and others. It proactively determines the systems that have either exceeded the capacity or are near exceeding 90% capacity. In addition, it provides information about software and hardware that have either expired or set to expire in the next 6 months.
 - **Performance & Efficiency:** Displays information about the performance and efficiency of the storage system.

- **Availability & Protection:** Displays information about the availability and protection of the storage system.
- **Capacity:** Consists of risks with a capacity attribute for impact area values.
- **Configuration:** Consists of risks with a configuration attribute for impact area values sorted with the highest impact on the top.
- **Security vulnerabilities:** Consists of risks with a security attribute for impact area values.
- **Wellness History:** Displays information about system risks occurring in the past three months, so that you can learn how they are faring overtime.
- **Ransomware Defense:** Provides information about risks and corrective actions associated with ransomware detection, prevention, and recovery.
- **Acknowledge Risks (Ack):** Allows you to acknowledge the risks and systems that have been impacted. You can acknowledge these risks and familiarize yourself with the actions that you can perform to mitigate these risks.
- **Unacknowledge Risks (un-ack):** Allows you to unacknowledge the risks and systems that have been acknowledged.
- **Fix It:** Fixes the risks to the system using Active IQ United Manager (UM) 9.7 or higher. Click this button to launch UM and perform the steps to mitigate the risks.
- **Inventory widget:** Displays a rollup of total systems you own. This includes both Active IQ enabled and non-enabled products.
 - **Generate a report:** Generates the report of the selected watchlist and emails the report to a maximum of 5 recipients.
- **Planning widget:** Displays information about the capacity addition, software, and hardware that needs to be renewed.
 - **Capacity Additions:** Identifies systems that have exceeded or are nearing 90% capacity and GRID sites that have exceeded or are nearing 70% capacity. You can raise a request to increase the capacity of your storage system.
 - **Renewals:** Provides information about the software and hardware that has expired or are near expiration in the next 6 months.
- **Upgrades widget:** Provides the number of upgrades that are available.
- **Storage Efficiency:** Identifies the storage efficiency ratio and savings of your storage system with and without Snapshot backups for AFF systems, non-AFF systems, or both.
- **Performance graph:** Enables you to analyze the performance of your storage devices by viewing the graphical format of performance data. You can view detailed performance graphs of the ONTAP cluster for the selected node.
- **Valuable Insights widget:** Provides information about the number of support cases, pending software upgrades, storage efficiency savings, risks mitigated, and others. It also proactively lists the risk notifications from the Wellness attribute.
- **AutoSupport:** Enables you to view AutoSupport instances at a high level or in detail. The details include system details, possible reasons for the issue, and suggested actions.

To access the AutoSupport feature, log in to Active IQ Digital Advisor and search for a cluster or hostname. The AutoSupport option is available on the left pane.

- **Cloud ready workloads:** Provides information about the different types of workloads available within your storage system and identify the workloads that are cloud-ready. Moving workloads to the cloud result in cost savings and provide cloud disaster recovery. You can move workloads and volumes that are running

on Oracle, SAP, SAP HANA, File Share, SQL, and SharePoint. NetApp® Cloud Volumes helps in moving workloads and volumes to the cloud by delivering extreme performance and advanced data management capabilities to satisfy even your most demanding applications in the cloud. For more information about using NetApp® Cloud Volumes, see the [Cloud Manager](#) documentation.

- **Quick Links:** Provides the list of applications that can be launched using Active IQ Digital Advisor.
 - **ClusterViewer:** Enables you to see detailed physical and logical configuration information. The details are presented in several easy-to-view tables across multiple tabs that include a summary of the cluster and node configuration, the local tier and volume information, the network interface and port information, a stack diagram detailing information about the disks and shelves, and a few cable visualizations. You can also download the cable visualizations graphics in the SVG format.

The ClusterViewer feature is not supported on E-Series systems.

- **API Services:** Allows you to pull data of interest and integrate it directly into your company's workflow.
- **AutoSupport Upload:** Enables you to analyze the defects or issues in ONTAP and E-Series systems. The defects or issues are reviewed and fixed manually by Support Site personnel.
- **System Firmware:** Enables you to view information about the system firmware that is shipped along with each major and patch version of ONTAP.
 - **Search:** Allows you to search for systems based on various categories, such as customer name, serial number, cluster, site name, group name, hostname, and others.
- **Customer:** Allows you to view and manage a customer's installed base. Customer Dashboard is the central portal in Active IQ.
- **Cluster:** Provides information about ONTAP clusters. The Dashboard also consolidates health, capacity, storage efficiency, and performance insights.
- **Serial Number:** Provides information about the serial number that is assigned to the customer.

AutoSupport

AutoSupport is a telemetry mechanism that proactively monitors the health of your system and automatically sends configuration, status, performance, and system events data to NetApp.

This data is used by NetApp Technical Support to speed the diagnosis and resolution of issues, and by Active IQ to proactively detect and avoid potential issues. It can also be sent to your internal support organization and a support partner.



Active IQ displays AutoSupport related data only for systems whose AutoSupport data is the less than 60 days old.

For ONTAP systems, AutoSupport is enabled by default when you configure your storage system for the first time. You should [set up AutoSupport](#) on ONTAP systems to control how the AutoSupport information is sent to technical support and your internal support organization.

If you do not want to enable AutoSupport, you can use the AutoSupport Upload feature to manually upload AutoSupport data to receive recommendations and insights into your storage ecosystem.



AutoSupport data does not contain any user data.

For more information about AutoSupport, refer to the appropriate documentation:

- [ONTAP \(FAS and AFF\)](#)
- [StorageGRID](#)
- [SANtricity \(E-Series and EF-Series\)](#)
- [Element \(NetApp HCI and SolidFire\)](#)
- [Technical Report - ONTAP AutoSupport and AutoSupport On Demand](#)
- [Technical Report - Security and Privacy of NetApp Telemetry Data](#)

Log in to Active IQ Digital Advisor

You must have a valid NetApp Support site credential to log in to Active IQ Digital Advisor. If you do not have an account and are getting started, click [here](#).

Steps

1. Click [here](#) to access Active IQ Digital Advisor.

Active IQ Digital Advisor shows systems with a valid support contract. If contracts expire, a grace period of 90 days is given in which systems continue to be visible. Thereafter, systems are not searchable or visible within Active IQ Digital Advisor.

2. Provide your username and password and click **Sign In**.

Manage your clusters in Cloud Manager

Active IQ Digital Advisor is integrated into Cloud Manager. You can now manage your clusters and access all the features of Active IQ from the Cloud Manager user interface (UI). Using Cloud Manager, IT experts and cloud architects can centrally manage their hybrid multi-cloud infrastructure.

All you need is an NSS account in Cloud Manager to integrate and access Active IQ in Cloud Manager. For information about integrating and accessing Active IQ in Cloud Manager, see [How Active IQ Digital Advisor works with Cloud Manager](#).

Copyright Information

Copyright © 2022 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system-without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.