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Wd my cloud ex2 ultra diskless setup

Centralized Network Backup Back up and organize high volumes of content from multiple computers, smartphones, and tablets on your My Cloud EX2 Ultra, on your own private network, and without costly subscriptions. Access from Anywhere Save, access and stream your content anywhere you have an internet connection with the My Cloud OS 5 mobile app or MyCloud.com web access. Simple to Setup, Easy to Use The My Cloud EX2 Ultra can be quickly found on your network and installed over the web, making the setup process simple and intuitive. And with tool-less, tray-less drive bays, you're able to easily add or replace hard drives in a matter of moments. Robust Data Protection The available Acronis True Image for Western Digital software delivers easy, efficient, secure cyber protection, integrating award-winning backup with an AI-based defense against ransomware and cryptojacking attacks. The Acronis True Image for Western Digital software backs up everything from operating systems and applications to settings and individual files, with support for both PC and Mac machines. My Cloud OS 5 My Cloud OS 5 features our latest security updates, enhanced data privacy, improved connectivity reliability, a modern mobile and web app experience, and improved photo/video viewing and sharing capabilities. Use the mobile or web app to remotely access and share files, photos and videos you save on your My Cloud NAS from anywhere with an Internet connection. Learn More Designed For Smooth Streaming Upgraded with the powerful Marvell ARMADA 385 1.3GHz dual-core processor, you'll get ultra-fast transfer rates for high performance streaming. It also comes with 1GB of DDR3 memory, so you can multitask with ease. The downloadable Plex Media Server keeps all your photos, videos and music beautifully organized and prepared for streaming to your PC, mobile device, game console, or other certified media player. Simplified File And Folder Sharing Easily customize how you share by using public or private links. With a public link, you can share your content so anyone can see it. Using a private link, you can grant a user limited or full-access and securely collaborate with anyone. Featuring Ultra-reliable WD Red NAS Drives My Cloud EX2 Ultra comes pre-configured with WD Red hard drives, specifically built for NAS systems to provide improved performance within 24x7 environments. The My Cloud EX2 Ultra is also available in a diskless version, so you can create a custom NAS with compatible hard drives. Volume Encryption Equipped with 256 AES volume encryption, it helps to secure your stored files across your entire network. Whether you're using a PC or a Mac, your content is protected. Multiple RAID Options With the RAID settings of the My Cloud EX2 Ultra, you can customize your system with the configuration that's best for you. Use RAID 0 for enhanced performance, RAID 1 for mirrored data protection, or a JBOD / spanning structure for non-RAID configurations. Third-party App Support My Cloud EX2 Ultra supports a full suite of popular applications for a personalized experience. Using apps like Plex, Dropbox, WordPress and more, you can customize your NAS for your own specific needs. Centralized Network Backup Back up and organize high volumes of content from multiple computers, smartphones, and tablets on your My Cloud EX2 Ultra, on your own private network, and without costly subscriptions. Access from Anywhere Save, access and stream your content anywhere you have an internet connection with the My Cloud OS 5 mobile app or MyCloud.com web access. Simple to Setup, Easy to Use The My Cloud EX2 Ultra can be quickly found on your network and installed over the web, making the setup process simple and intuitive. And with tool-less, tray-less drive bays, you're able to easily add or replace hard drives in a matter of moments. Robust Data Protection The available Acronis True Image for Western Digital software delivers easy, efficient, secure cyber protection, integrating award-winning backup with an AI-based defense against ransomware and cryptojacking attacks. The Acronis True Image for Western Digital software backs up everything from operating systems and applications to settings and individual files, with support for both PC and Mac machines. My Cloud OS 5 My Cloud OS 5 features our latest security updates, enhanced data privacy, improved connectivity reliability, a modern mobile and web app experience, and improved photo/video viewing and sharing capabilities. 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Featuring Ultra-reliable WD Red NAS Drives My Cloud EX2 Ultra comes pre-configured with WD Red hard drives, specifically built for NAS systems to provide improved performance within 24x7 environments. The My Cloud EX2 Ultra is also available in a diskless version, so you can create a custom NAS with compatible hard drives. Volume Encryption Equipped with 256 AES volume encryption, it helps to secure your stored files across your entire network. Whether you're using a PC or a Mac, your content is protected. Multiple RAID Options With the RAID settings of the My Cloud EX2 Ultra, you can customize your system with the configuration that's best for you. Use RAID 0 for enhanced performance, RAID 1 for mirrored data protection, or a JBOD / spanning structure for non-RAID configurations. Third-party App Support My Cloud EX2 Ultra supports a full suite of popular applications for a personalized experience. Using apps like Plex, Dropbox, WordPress and more, you can customize your NAS for your own specific needs. Suitable for small office and IT enthusiasts, this five-bay network attached storage solution offers a centralized, remotely accessible location to back up, protect and share your data. You can also collaborate with co-workers on the same online document, run and manage multiple virtual machines, and stream media to various devices — computers, smartphones, media players, and TVs — for non-stop, fun watching experience. Hardware-wise, the DS1520+ is powered by an Intel quad-core processor, and comes with four Gigabit Ethernet ports that support Link Aggregation and Failover. Two built-in M.2 SSD slots and Synology SSD Cache technology allow you to boost system I/O and application performance. It also supports scalable storage design, so you start small and expand storage capacity with optional Synology DX517 as your data grows. Western Digital released the My Cloud EX2 Ultra in early February. This high performance 2-bay NAS comes with a few added benefits in comparison to its predecessor, the My Cloud EX2. The My Cloud EX2 Ultra gives you secure access to your files remotely and provides a simplistic platform for syncing and sharing content across computers. With multiple back-up options, this NAS has everything you'll need for the home office or small business. Western Digital released the My Cloud EX2 Ultra in early February. This high performance 2-bay NAS comes with a few added benefits in comparison to its predecessor, the My Cloud EX2. The My Cloud EX2 Ultra gives you secure access to your files remotely and provides a simplistic platform for syncing and sharing content across computers. With multiple back-up options, this NAS has everything you'll need for the home office or small business. Users can choose from one of four My Cloud EX2 Ultra models: diskless, 4TB, 8TB, or 12TB. The options that come with storage use the WD Red NAS hard drives and have a three-year limited warranty. If you'd rather build your own, you can choose the diskless model and add drives yourself, so long as they are compatible. The WD My Cloud EX2 Ultra comes with a two-year limited warranty and is priced \$159.99, \$349.99, \$449.99, and \$599.99 for the diskless, 4TB, 8TB, and 12TB respectively. For our review we will be looking at the 8TB. Specifications Interface Gigabit Ethernet Power supply (DC in) x 1 USB 3.0 expansion port x 2 rear CPU:Marvell ARMADA385 1.3 GHz dual-core Memory: 1 GB DDR3 Drive bays: 2 x 3.5 inch hard drive bays, hot swap capable, tray-less design Internal hard drives: WD Red NAS hard drives Expansion Ports: 2 USB 3.0 ports Compatibility: Windows, Mac (iOS and Android for Mobile Apps) Backup management Remote backups: My Cloud Expert Series to My Cloud Expert Series locally or remotely Backup internal files or folders of the device to other files/folders on the NAS or attached USB drive WD SmartWare Pro for Windows clients Apple Time Machine (10.5.8+) support Cloud-based backup services Amazon S3 ElephantDrive Disk sync management for the attached USB ports Security: Volume Encryption (256 bit AES) Remote Access My Cloud mobile app My Cloud.com web access User/Group Management Max No. of Users: 512 for Samba, 800 for ADS Max No. of User Groups: 64 for Samba, 200 for ADS Max No. of Network Shares: 128 Max concurrent CIFS connections: 10 User/Group assignment for network sharing/FTP Quotas for groups or users Assignment of users to multiple groups Batch assignment of users to groups Batch user creation Design and Build The My Cloud EX2 Ultra looks almost identical to its older brother (My Cloud EX2). The front of the body has 3 LED status lights for power/connectivity, bay 1, and bay 2. A matte black covering wraps around the sides and front seamlessly, giving the machine an integrated and sleek feel. The top and bottom are covered in a ventilated covering to disperse heat effortlessly. On the backside, you'll find the power port, Ethernet port, reset button, 2 USB ports, and a lock slot. Usability Like other devices in the My Cloud family, the EX2 Ultra is easy to set up. The online user manual takes you through all of the necessary steps to get the machine up and running. WD also has mobile apps for iOS and Android, allowing you access to your content from anywhere. The My Cloud OS has an indisputably simple design. The intuitive layout makes navigating through the features and settings a breeze. The home page displays the remaining free capacity, system diagnostics, and network activity. The ribbon at the top of the interface provides links to the tools and settings. The device also can be accessed with mobile devices where users can view files, backup files such as photos and videos, check on the status of the device, and share files with others. Synthetic Workload Analysis We ran the 8TB version of the My Cloud EX2 Ultra through its paces with our standard StorageReview Test Lab regimen. The following profiles were used to compare performance. 4K 100% Read / 100% Write throughput 8K 70% Read / 30% Write throughput 128K 100% Read / 100% Write throughput We first took a look at 4K performance at 100% read/100% write activity. While the new EX2 Ultra does not surpass the EX2 in write activity, read activity in iSCSI outperformed with an IOPS of 329. Next, we measured average latency under 100% read/write activity where the EX2 Ultra had superior performance in read activity with latency as low as 776.99ms in iSCSI. With writers on the other hand, the Ultra had higher latency in both iSCSI and CIFS with iSCSI being over two times higher than the non Ultra. Looking at max latency we saw that the Ultra had the lowest write latency in CIFS with 2.295.5ms but its write latency in iSCSI was the highest overall at 8,800.4ms. It had superior read latency in both iSCSI and CIFS compared to the non-Ultra model. Standard deviation gave us another example of the Ultra having higher latency than the non-Ultra version. While the write latency in CIFS was the lowest over all at 183.05ms, the Ultra trailed behind the non-Ultra on all the rest. The Ultra had an incredibly high write latency in iSCSI at 1,899.28ms. Compared to the fixed 16 thread, 16 queue max workload we performed in the 100% 4k write test, our mixed workload profiles scale the performance across a wide range of thread/queue combinations. Looking at throughput the Ultra found itself lagging behind the non-Ultra once again. The iSCSI peaked around 200 IOPS while the CIFS hovered right above the 100 IOPS mark throughout testing. Average latency gave us similar plging with the Ultra having slightly higher latency than the non-Ultra throughout the testing in both iSCSI and CIFS. Max latency showed us more consistent CIFS latency but in either case the Ultra fell behind the non-Ultra. With standard deviation the Ultra ran with higher latency in both iSCSI and CIFS with iSCSI have the largest gap in speeds. The last test in our Synthetic Workload testing is the 128K test, which is a large block sequential test that shows the highest sequential transfer speed possible. Throughout our benchmarks the Ultra had been running slightly behind the on-Ultra version, especially in latency. Here we see the Ultra pull out ahead with speeds of 116MB/s read and 108MB/s write in CIFS and 115MB/s read and 112MB/s write in iSCSI. Conclusion Like its brethren, the WD My Cloud EX2 Ultra is easy to use and is supported by a simplistic user interface. Getting the device up and running on your network only takes a few minutes, as this is one of the easiest NAS setups on the market. The latest model comes with several capacity options with the capacity on the high end being 12TB. It also provides users with several backup options making it an attractive choice for small and home offices. Performance wise, the My Cloud EX2 Ultra performs well for the home or small office use cases at a wallet-friendly price point. The EX2 Ultra has a leg up on its previous generation EX2 with 128K sequential performance with speeds as high as 116MB/s read and 112MB/s write. However random performance is lacking in comparison to the EX2. This is most noticeably seen on the 8K 70% read 30% write charts with lower throughput and higher average and max latency. In the end most users probably won't notice much about the performance though; the target demographic will find access times acceptable and should be more impressed with ease of use than anything else. Pros Very easy setup Good price Built to support media among other content Cons Fewer third party plugins/apps than alternatives The Bottom Line The WD My Cloud EX2 Ultra offers a clean design, both externally and with the user interface, home/small office targeted features, and one of the easiest setups on the NAS market, all at an affordable price. WD My Cloud EX2 Ultra at Amazon Discuss this review Sign up for the StorageReview newsletter

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