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the login node is only used for accessing the system transferring data and submitting jobs to the dgx nodes the dgx a100 has 8 nvidia tesla a100 gpus which can be further partitioned into smaller slices to optimize access and utilization for example each gpu can be sliced into as many as 7 instances when enabled to operate in mig multi instance gpu mode the nvidia a100 80gb pcie card features multi instance gpu mig capability which can be partitioned into as many as seven isolated gpu instances providing a unified platform that enables elastic data centers to dynamically adjust to shifting workload demands the nvidia dgx a100 system is the universal system purpose built for all ai infrastructure and workloads from analytics to training to inference the system is built on eight nvidia a100 tensor core gpus this document is for users and administrators of the dgx a100 system the nvidia a100 gpu is a dual slot 10.5 inch pci express gen4 card based on the nvidia ampere ga100 graphics processing unit gpu it uses a passive heat sink for cooling which requires system air flow to properly operate the card within its thermal limits the a100 pcie supports double precision fp64 single precision fp32 and half precision instruction manuals and brochures for dslr a100 modern cloud datacenter workloads require nvidia gpu acceleration in 2017 the nvidia tesla v100 gpu introduced powerful new tensor cores that provided tremendous speedups for the matrix computations at the heart of deep learning neural network training and inferencing operations overview the smart speaker for music lovers perfect fit for shelves counters and snug spaces or mounted to a wall ceiling or speaker stand freedom of control using the sonos s2 or sonos s1 app the touch controls on the speaker or your voice introduction to the nvidia dgx station a100 registering your dgx station a100 what's in the box dgx os software summary dgx station a100 hardware summary processors

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