



# NVIDIA Base Command

## Enterprise-Class Platform for AI Training

Many businesses find themselves sinking in AI model debt with data science innovation languishing in prototypes and rarely realized in production. Typical challenges that constrain time-to-insights include data scientist productivity, workflow bottlenecks, inefficient access to resources and infrastructure, and lack of IT/DevOps integration processes. Businesses need a solution that accelerates their AI initiatives with simplified experimentation and workflows, and streamlined management of users, jobs, and data sets that's effortlessly supported by IT teams.

NVIDIA Base Command™ is an enterprise-class AI training software service that enables businesses and their data scientists to accelerate AI development. It provides centralized control of the AI training process from end-to-end, including resource sharing, job scheduling, and data set management, using an intuitive graphical user interface, a command line interface, and integrated monitoring and reporting dashboards. Base Command provides a single pane-of-glass view into your AI training projects and fits the varying needs of different enterprises. Customers can choose between various options for NVIDIA-accelerated infrastructure, including NVIDIA DGX™ Foundry.

### Accelerate AI Initiatives

For enterprises to succeed in AI, there needs to be simple and flexible ways for data scientists to define, configure, and execute their workloads, collect and inspect results, and iterate to further innovate. At the same time, management demands comprehensive reporting on AI infrastructure utilization to set priorities and plan for the future. NVIDIA Base Command provides a cloud-hosted platform for AI development so you can avoid the overhead and pitfalls of deploying and running a do-it-yourself platform.

### Comprehensive AI Workflow Management

Deep learning and data science practitioners need ready-to-run, optimized AI software, and want end-to-end AI experimentation and workflow management, enabling them to take data science development from concept to production scale.

NVIDIA Base Command efficiently configures and manages AI workloads, delivers integrated data set management, and executes them on right-sized resources, ranging from a single GPU to large-scale, multi-node clusters. Its cloud-hosted management features provide common control and user experience for NVIDIA DGX Foundry, on-premises NVIDIA DGX SuperPOD™, and any additional future resources.

### KEY FEATURES

- > Single-GPU, multi-GPU, and multi-node AI training
- > Custom scheduler with quota controls
- > Built-in data set management and data governance
- > Role-Based Access Control (RBAC), Single Sign-On (SSO), team collaboration, and sharing
- > Comprehensive job telemetry, including Tensor Core utilization and GPU affinity
- > Detailed showback reporting
- > GPU-optimized software from the NVIDIA NGC catalog
- > APIs for MLOps integration
- > Support for interactive jobs to access Jupyter Notebooks and TensorBoard
- > Fastest path to building the most complex AI applications with integrated tools, including NeMo Megatron for developing large-scale NLP

### GET BASE COMMAND

Free trial	<b>NVIDIA LaunchPad</b>
With rented AI infrastructure	<b>NVIDIA DGX Foundry</b>
Buy the infrastructure (coming soon)	<b>NVIDIA DGX SuperPOD</b>

Base Command accommodates diverse approaches by providing consistent capabilities across its web UI, command line, and API. A large library of pre-built containers, with optimized deep learning and data science frameworks and pre-trained models, is instantly available via NVIDIA NGC™. This enables your data scientists to deliver production-ready models and applications faster.

## **Simplified Collaboration For Data Science Teams**

While enterprises are beginning to infuse AI into their businesses and investing in powerful infrastructure, oftentimes their IT organizations struggle to provide simple yet powerful tools that allow their researchers and scientists to share it efficiently. NVIDIA Base Command provides the easiest way for your researchers and scientists to share data, models, results, and AI compute power across the organization.

## **Integrated Monitoring and Reporting Dashboards**

AI projects are multi-faceted, very iterative in nature, and require constant fine-tuning. With NVIDIA Base Command, your IT staff and AI practitioners can analyze and optimize AI resources with features like built-in telemetry, and your business leaders can access reporting and showback capabilities, so you can get the most from your AI infrastructure, set project priorities, and plan for future success by correctly forecasting compute capacity needs.

## **The AI Training Platform NVIDIA Uses**

Base Command delivers continuous innovations. Because NVIDIA's own engineers and researchers rely on it every day, NVIDIA provides ongoing enhancements, enabling your AI practitioners to experience the same efficiency and reliability as our own.

## **Choose The Compute Environment That's Right For You**

The full power of NVIDIA Base Command is realized by executing AI training workloads on the best-of-breed, NVIDIA-accelerated infrastructure. Choose what best fits your IT environment, from hosted services to on-premises deployments. Try Base Command at no cost on NVIDIA LaunchPad, and use it with rented infrastructure in NVIDIA DGX Foundry, or with your own DGX SuperPOD deployed in your data center or colocation facility.

[Learn more](#)

To learn more about NVIDIA Base Command, visit [www.nvidia.com/base-command](https://www.nvidia.com/base-command)