

# HPC Manager Suite

## Simple Overview for Marketing Team

Our HPC Cluster & Job Management System is a smart web-based platform that helps organizations manage powerful computers, automate heavy workloads, and monitor systems from one centralized dashboard.

## What is an HPC Cluster?

An HPC (High Performance Computing) Cluster is a group of multiple computers connected together to work like one powerful system. These computers help organizations process large tasks faster and more efficiently.

## What are Nodes?

Nodes are the individual computers inside the cluster.

- A **Master Node** manages the overall system.
- **Compute Nodes** perform the actual processing work.

## What are Jobs?

A Job is a task or program submitted by a user to the system for execution.

Examples:

- Running simulations
- Data processing
- AI/ML workloads
- Research computations
- Large software tasks

# Key Features of Our Product

## Centralized Dashboard

Monitor the complete cluster, system health, storage usage, and node activity from a single screen.

## Job Management

Users can create, manage, and run jobs directly from the web interface without needing deep Linux knowledge.

## Web-Based Linux Terminal

Provides a real Linux terminal inside the browser, allowing users to execute commands securely from anywhere.

## File Management System

Users can create, edit, organize, and manage their project files and job scripts easily.

## Multi-User Access

Separate admin and user roles with secure access control and user-specific workspaces.

## Real-Time Monitoring

Track system performance, resource usage, and running workloads in real time.

## SLURM Integration

Supports professional workload scheduling for efficient task distribution across systems.

## Secure User Isolation

Each user can access only their own files and workspace for better security and management.

# Business Benefits

- Improves productivity and automation

- Reduces manual system management
- Enables centralized control of powerful computing resources
- Supports AI, research, analytics, and enterprise workloads
- Accessible from a browser with a user-friendly interface

This solution is ideal for:

- Research organizations
- AI/ML teams
- Universities & labs
- Enterprises handling heavy computations
- Data processing environments