



UNIVERSITAS
GADJAH MADA

Panduan Penggunaan AI CUBIC Management System

IGA

ugm.ac.id

LOCALLY ROOTED, GLOBALLY RESPECTED

Pendahuluan

- <https://ugm.id/ailabdteti>
- **Rationale:** Kebutuhan yang semakin besar akan komputasi performa tinggi
- **Kondisi sebelumnya:** hanya DGX-1 yang di-manage (secara manual sesuai request)
- **Tujuan:** mengintegrasikan resource komputasi performa tinggi



Home Hardwares Current User Queue

Sign in

Sign Up

AI Center - HPC DTETI

AI Center DTETI menyediakan fasilitas pendukung penelitian di bidang AI dan HPC (High Performance Computing)

Learn More



Fasilitas Unggulan

Kami menyediakan fasilitas pendukung penelitian di bidang AI dan HPC untuk civitas DTETI



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AI CUBIC Management System

- <https://ugm.id/ailabdteti>
- Sistem satu pintu untuk seluruh warga DTETI dalam memanfaatkan HPC
- Menggunakan system booking dan queueing (First Come First Serves) secara otomatis
- Hanya untuk warga DTETI (dosen dan mahasiswa S1-S3)



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Home Hardwares Current User Queue

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General
Information (No
Login)



Home **Hardwares** Current User Queue

[Sign in](#)

[Sign Up](#)

• Hardwares

• Semua
Komputer /
Server yang
terkoneksi

Node Name	#GPU	RAM (GB)	CPU (cores)	Active
DGX-1	8	540.94	80	ACTIVE
IGA-GPUBox2	4	134.93	32	ACTIVE
IGA-GPUBox1	4	269.93	20	ACTIVE
IGA-CRA	2	50.44	8	ACTIVE
IGA-GPUBox3	2	134.93	24	INACTIVE
IGA-Proliant	1	8.27	4	INACTIVE
Lab-AI	1	41.76	20	INACTIVE
HAN-GPU-RADR-Honeywell	1	33.34	8	INACTIVE

Showing 1 to 8 of 8 entries

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General Information (No Login)

- Current Users
- List Pengguna saat ini



Home Hardwares Current User Queue

Sign in

Sign Up

Search...							
Nama User	NIM	Strata	Node	GPU ID	Advisor	Started At	
Igi Ardiyanto, Dr.Eng. Ir., S.T., M.Eng., SMIEEE.	-	DOSEN	IGA-GPUbox1	2	Igi Ardiyanto, Dr.Eng. Ir., S.T., M.Eng., SMIEEE.	3/3/2024, 00.36.12	
SAYYIDAN M. IKHSAN	20/460160/TK/50749	S1	IGA-GPUbox2	3	Igi Ardiyanto, Dr.Eng. Ir., S.T., M.Eng., SMIEEE.	1/3/2024, 14.31.56	
LAUDA RAISSA M	20/460157/TK/50746	S1	IGA-GPUbox2	2	Igi Ardiyanto, Dr.Eng. Ir., S.T., M.Eng., SMIEEE.	1/3/2024, 14.06.14	
Syukron Abu Ishaq Alfarizi, , S.T., Ph.D.	-	DOSEN	DGX-1	1	Syukron Abu Ishaq Alfarizi, , S.T., Ph.D.	1/3/2024, 12.47.18	

Showing 1 to 4 of 4 entries 10

Navigation icons: << < 1 > >>

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General
Information (No
Login)

- Queue
- List Pengguna
dalam antrian



Home Hardwares Current User **Queue**

[Sign in](#) [Sign Up](#)

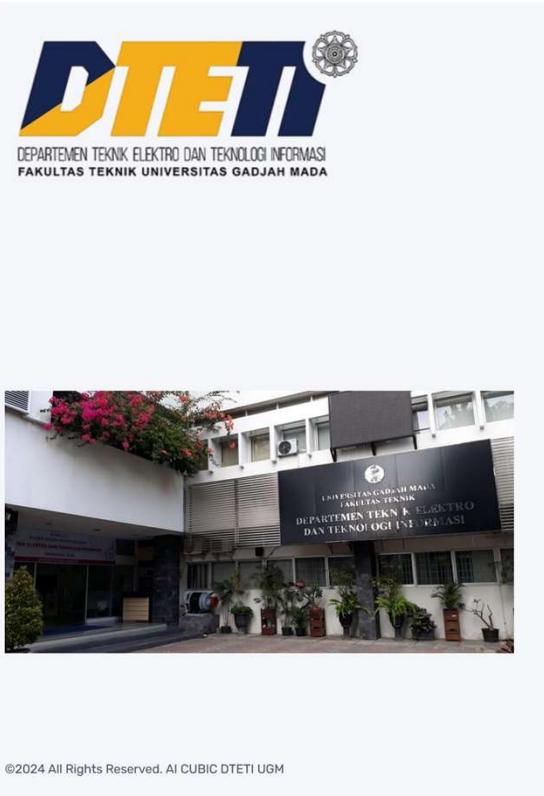
Nama User	NIM	Strata	Node	GPU ID	Advisor	Booked At
No queue, grab the seat fast !						

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General Information (No Login)

- **Sign In/Sign Up**
- Halaman Login dan Registrasi
- Menggunakan email UGM untuk filtering user
- Verifikasi via Email
- Terpisah dari sistem SSO

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Selamat Datang di Fasilitas AI DTETI UGM

[Sign Up](#)

Username *

Password *

Use your UGM E-Mail, otherwise it will be rejected. Password should be at least 10 characters long and contains number, uppercase, and special characters, and can be different with the one you use in SSO.

Have an account? [Sign In](#)

[Sign Up](#)

LOCALLY ROOTED, GLOBALLY RESPECTED

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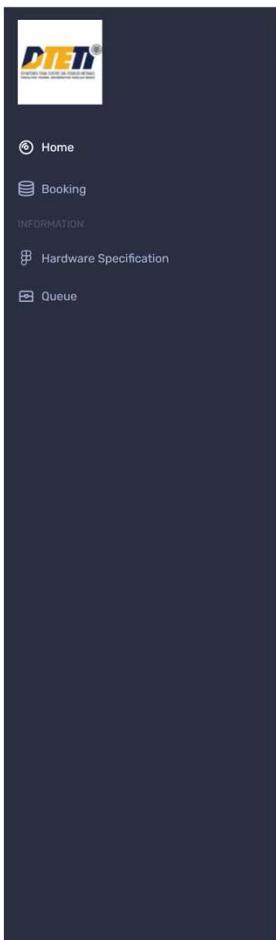


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Halaman Admin Dosen

- Home
- Informasi booking sendiri dan seluruh mahasiswa bimbingan
- Informasi history booking yang sudah selesai
- Statistik pengguna



HOME

REGISTERED MAHASISWA **5**

REGISTERED DOSEN **2**

TOTAL BOOKING **3**

UNIQUE USER **3**

page / home

My Current Booking

Nama User	NIM	Strata	Node	GPU ID	Address Link	Password	Advisor	Booked At	Status	Valid Until
Igi Ardiyanto, Dr.Eng. Ir. S.T., M.Eng. SMIEEE.	-	DOSEN	IGA-GPUBox1	2	http:// 10.42.25.9	3050-4e33-8477-10a5ed6862cf	Igi Ardiyanto, Dr.Eng. Ir. S.T., M.Eng., SMIEEE.	3/3/2024, 00.36.12	RUNNING	6/3/2024, 00.36.12
SAYYIDAN M. IKHSAN	20/460160/ TK/50749	S1	IGA-GPUBox2	3	http:// 10.42.25.9	ff8-49ee-850d-545e7610e642	Igi Ardiyanto, Dr.Eng. Ir. S.T., M.Eng., SMIEEE.	1/3/2024, 14.31.56	RUNNING	4/3/2024, 14.31.56
LAUDA RAISSA M	20/460157/TK/ 50746	S1	IGA-GPUBox2	2	http:// 10.42.25.9	c49c60d9- 3a-04826f974720	Igi Ardiyanto, Dr.Eng. Ir. S.T., M.Eng., SMIEEE.	1/3/2024, 14.06.14	RUNNING	4/3/2024, 14.06.14

Showing 1 to 3 of 3 entries 10

My Booking History

Nama User	NIM	Strata	Node	GPU ID	Advisor	Booked At
Laily Medha Nur Ihsanti	21/474650/TK/52363	S1	IGA-GPUBox2	1	Igi Ardiyanto, Dr.Eng. Ir. S.T., M.Eng., SMIEEE.	29/2/2024, 06.55.04
Rayhan Adi Wicaksono	21/477186/TK/52550	S1	IGA-GPUBox2	0	Igi Ardiyanto, Dr.Eng. Ir. S.T., M.Eng., SMIEEE.	29/2/2024, 06.18.56

Showing 1 to 2 of 2 entries 10

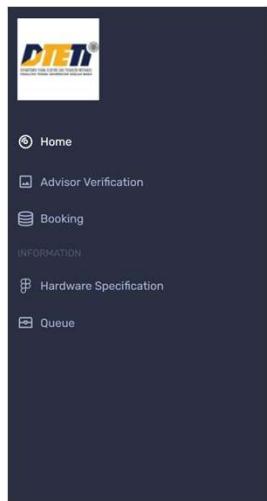
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Halaman Admin Mahasiswa

- Home
- Informasi booking pribadi dan seluruh mahasiswa bimbingan
- Informasi history booking yang sudah selesai



HOME

My Current Booking

Nama User	NIM	Strata	Node	GPU ID	Address Link	Password	Advisor	Booked At	Status	Valid Until
No data available										

My Booking History

Nama User	NIM	Strata	Node	GPU ID	Advisor	Booked At
Search...						
No data available						

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Halaman Admin Mahasiswa

- **Advisor Verification**
- Mahasiswa perlu mendapatkan persetujuan dosen (pembimbing skripsi, tesis, capstone, DPA, dll) untuk bisa menggunakan fasilitas

The screenshot shows the 'ADVISOR VERIFICATION' page. On the left, there is a sidebar with the DTEH logo and links for Home, Advisor Verification, Booking, INFORMATION, Hardware Specification, and Queue. The main area has a search bar and columns for Advisor Name, Status, Approved At, and Valid until. A message at the bottom states: 'Your advisor has not verified you to use this facilities. Contact your advisor by clicking 'Add Advisor''. The modal window 'Verify Advisor' has a text input for 'Name *' containing 'IG'. Below the input, a dropdown menu shows two options: 'Igi Ardiyanto, Dr.Eng., Ir., S.T., M.I.' and 'Sigit Basuki Wibowo, Ir., S.T., M.Eng., Ph.D., IPM.'

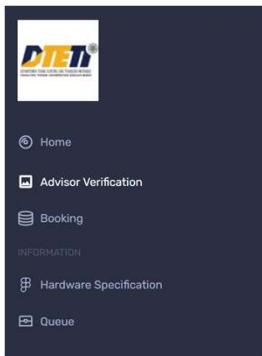
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Halaman Admin Mahasiswa

- **Advisor Verification**
- Persetujuan berlaku selama 30 hari dan dapat terus diperpanjang



ADVISOR VERIFICATION

Search...

Advisor Name	Status	Approved At	Valid until
Igi Ardiyanto, Dr.Eng. Ir., S.T., M.Eng., SMIEE.	HAS BEEN APPROVED	4/3/2024, 04:11:43	3/4/2024, 04:11:43

Add Advisor

DTETI AI Center - Advisor Approval [External](#) [Inbox](#)

DTETI AI Center <alcubic.ugm@gmail.com>
to me

Translate to English

Advisor Approval

Bapak/Ibu, kami menerima permintaan booking Fasilitas AI DTETI dari mahasiswa berikut, dan mengajukan Bapak/Ibu sebagai Pembimbing.

Nama: [REDACTED]
NIM: [REDACTED]

Apakah Bapak/Ibu berkenan menjadi Dosen Pembimbing mahasiswa tersebut ?

Tolak Terima

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page / booking

Halaman Admin

- **Booking**
- Informasi ketersediaan mesin
- **Book this :** langsung dapat digunakan saat itu juga
- **Queue this :** pemesanan, dapat digunakan setelah pengguna saat ini selesai



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Halaman Admin

- **Booking**
- Default waktu booking: **selama 3 hari**
- **Storage dedicated untuk Node yang sama**

Nodes	GPU ID	Type	GPU Memory	Availability	Actions
DGX-1	0	TESLA-V100	32GB	NOT AVAILABLE	
DGX-1	1	TESLA-V100	32GB	IN USE	<button>Queue this !!</button>
DGX-1	2	TESLA-V100	32GB	AVAILABLE	<button>Book this !!</button>
DGX-1	3	TESLA-V100	32GB	AVAILABLE	<button>Book this !!</button>
DGX-1	4	TESLA-V100	32GB	AVAILABLE	<button>Book this !!</button>
DGX-1	5	TESLA-V100	32GB	NOT AVAILABLE	
DGX-1	6	TESLA-V100	32GB	AVAILABLE	<button>Book this !!</button>
DGX-1	7	TESLA-V100	32GB	AVAILABLE	<button>Book this !!</button>
HAN-GPU-RADR-Honeywell	0	RTX-3060	12GB	NOT AVAILABLE	
IGA-GPUBox2	0	RTX-3060	12GB	AVAILABLE	<button>Book this !!</button>
IGA-GPUBox2	1	RTX-3060	12GB	AVAILABLE	<button>Book this !!</button>
IGA-GPUBox2	2	RTX-3060	12GB	IN USE	<button>Queue this !!</button>
IGA-GPUBox2	3	RTX-3060	12GB	IN USE	<button>Queue this !!</button>
IGA-Proliant	0	GTX-1060	4GB	NOT AVAILABLE	
Lab-AI	0	RTX-3060	12GB	NOT AVAILABLE	
IGA-GPUBox3	0	RTX-3060	12GB	NOT AVAILABLE	
IGA-GPUBox3	1	RTX-3060	12GB	NOT AVAILABLE	

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Halaman Admin

- **Hardware Specification**
- Penambahan Nodes / PC / Server
- Jika Bapak/Ibu berkenan untuk menghibahkan, bisa juga untuk diintegrasikan ke dalam sistem ini

The screenshot shows a web-based management system interface. On the left, there is a sidebar with a logo for 'DTETI' and a list of navigation items: Home, Booking, INFORMATION, Hardware Specification (which is currently selected), and Queue. The main content area is titled 'HARDWARE SPECIFICATION' and contains a search bar. Below the search bar is a table listing hardware specifications for various nodes. The table has columns for Node Name, #GPU, RAM (GB), CPU (cores), and Active status. The data is as follows:

Node Name	#GPU	RAM (GB)	CPU (cores)	Active
DGX-1	8	540.94	80	ACTIVE
IGA-GPUBox2	4	134.93	32	ACTIVE
IGA-GPUBox1	4	269.93	20	ACTIVE
IGA-CRA	2	50.44	8	ACTIVE
IGA-GPUBox3	2	134.93	24	INACTIVE
IGA-Proliant	1	8.27	4	ACTIVE
Lab-AI	1	41.76	20	INACTIVE
HAN-GPU-RADR-Honeywell	1	33.34	8	INACTIVE

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TERIMA KASIH