

# Documentación de Endpoints de la API

Notas:

- Prefijos base:
  - Usuarios y Tickets: `/api/`
  - Notificaciones: `/api/notifications/`
  - Reportes: `/api/reports/`
- Autenticación: JWT. Salvo indicación, se requiere `IsAuthenticated`. Se aclara permiso específico por endpoint.

Base URLs:

- Producción: <https://tickethelp-backend.onrender.com>
- Local: <http://localhost:8000>

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## ## Tickets (`tickets/urls.py`)

### - GET/POST `/api/tickets/` — Permisos: ADMIN

- Prod: <https://tickethelp-backend.onrender.com/api/tickets/>
- Local: <http://localhost:8000/api/tickets/>
- POST body (Ticket):

```
```json
{
    "administrador": "admin_document",
    "tecnico": "tech_document",
    "cliente": "client_document",
    "estado": 1,
    "titulo": "Texto",
    "descripcion": "Texto",
    "equipo": "Texto",
    "fecha": "2025-11-03T12:00:00Z"
}
```

- GET response:

```
```json
{
    "message": "Lista de tickets",
    "total_tickets": 2,
    "tickets": [ /* Ticket */ ]
}
```

```
}
```

```
...
```

- **GET `/api/tickets/least-busy-technician/` — Permisos: ADMIN**

- Prod: <https://tickethelp-backend.onrender.com/api/tickets/least-busy-technician/>
- Local: <http://localhost:8000/api/tickets/least-busy-technician/>
- Response: datos del técnico menos ocupado o 404.

- **PUT/PATCH `/api/tickets/change-technician/{ticket\_id}/` — Permisos: ADMIN**

- Prod:  
[https://tickethelp-backend.onrender.com/api/tickets/change-technician/{ticket\\_id}/](https://tickethelp-backend.onrender.com/api/tickets/change-technician/{ticket_id}/)
- Local: [http://localhost:8000/api/tickets/change-technician/{ticket\\_id}/](http://localhost:8000/api/tickets/change-technician/{ticket_id}/)
- Body:  
```json  
{ "documento\_tecnico": "tech\_document" }  
```
- Response:  
```json  
{  
 "message": "Técnico actualizado correctamente",  
 "ticket\_id": 123,  
 "nuevo\_tecnico": { "documento": "string", "email": "string", "nombre": "string" }  
}  
```

- **GET `/api/tickets/active-technicians/` — Permisos: ADMIN o TECH**

- Prod: <https://tickethelp-backend.onrender.com/api/tickets/active-technicians/>
- Local: <http://localhost:8000/api/tickets/active-technicians/>
- Response:  
```json  
{  
 "message": "Lista de técnicos activos disponibles",  
 "total\_tecnicos": 5,  
 "tecnicos": [  
 { "document": "string", "email": "string", "first\_name": "string", "last\_name": "string", "number": "string", "porcentaje\_ocupacion": 25.0 }  
 ]  
}  
```

- **PUT `/api/tickets/change-state/{ticket\_id}` — Permisos: TECH**

- Prod: [https://tickethelp-backend.onrender.com/api/tickets/change-state/{ticket\\_id}/](https://tickethelp-backend.onrender.com/api/tickets/change-state/{ticket_id}/)

- Local: [http://localhost:8000/api/tickets/change-state/{ticket\\_id}/](http://localhost:8000/api/tickets/change-state/{ticket_id}/)

- Query: `?user\_document=tech\_document` (si no usa `request.user`).

- Body:

```
```json
{
  "to_state": 4,
  "reason": "texto opcional"
}
````
```

- Response si final (requiere aprobación):

```
```json
{
  "message": "El estado final requiere validación del administrador, solicitud enviada correctamente",
  "request_id": 10,
  "status": "pending_approval",
  "to_state": "Finalizado"
}
````
```

- Response si no final:

```
```json
{
  "message": "Estado actualizado correctamente",
  "ticket_id": 123,
  "new_state": "En diagnóstico"
}
````
```

- **PUT `/api/tickets/approve-state/{request\_id}` — Permisos: ADMIN**

- Prod:

[https://tickethelp-backend.onrender.com/api/tickets/approve-state/{request\\_id}/](https://tickethelp-backend.onrender.com/api/tickets/approve-state/{request_id}/)

- Local: [http://localhost:8000/api/tickets/approve-state/{request\\_id}/](http://localhost:8000/api/tickets/approve-state/{request_id}/)

- Query: `?user\_document=admin\_document` (si no usa `request.user`).

- Body:

```
```json
{
  "action": "approve"
} // o
{
  "action": "reject",
  "rejection_reason": "texto"
}
````
```

- Response approve:

```
```json
```

```
{ "message": "Cambio de estado aprobado y aplicado", "ticket_id": 123,  
"new_state": "Finalizado" }  
```
```

- Response reject:

```
```json
```

```
{ "message": "Solicitud de cambio de estado rechazada", "ticket_id": 123,  
"rejection_reason": "texto" }  
```
```

### **- GET `/api/tickets/pending-approvals/` — Permisos: ADMIN**

- Prod: <https://tickethelp-backend.onrender.com/api/tickets/pending-approvals/>

- Local: <http://localhost:8000/api/tickets/pending-approvals/>

- Response:

```
```json
```

```
{
```

```
    "message": "Solicitudes de cambio de estado pendientes",  
    "total_pending": 3,  
    "requests": [ { /* solicitud */ } ]
```

```
}
```

```
```
```

### **- GET/POST `/api/estados/` — Permisos: ADMIN**

- Prod: <https://tickethelp-backend.onrender.com/api/estados/>

- Local: <http://localhost:8000/api/estados/>

- Maneja catálogo de estados ('Estado').

### **- GET `/api/tickets/consulta/?user\_document={doc}` — Permisos: AUTH**

- Prod:

```
https://tickethelp-backend.onrender.com/api/tickets/consulta/?user\_document={doc}
```

- Local: [http://localhost:8000/api/tickets/consulta/?user\\_document={doc}](http://localhost:8000/api/tickets/consulta/?user_document={doc})

- Response:

```
```json
```

```
{
```

```
    "message": "Lista de tickets",  
    "total_tickets": 3,  
    "tickets": [ { /* Ticket */ } ]
```

```
}
```

```
```
```

- Vacío:

```
```json
```

```
{ "message": "No tienes tickets registrados." }  
```
```

---

## ## Usuarios (`users/urls.py`)

### - GET `/api/users/` — ADMIN — lista usuarios

- Prod: <https://tickethelp-backend.onrender.com/api/users/>
- Local: <http://localhost:8000/api/users/>

### - POST `/api/users/create/` — ADMIN — crea usuario

- Prod: <https://tickethelp-backend.onrender.com/api/users/create/>
- Local: <http://localhost:8000/api/users/create/>

- Body:

```json

{

```
"document": "string", "email": "string", "number": "string", "role": "ADMIN|TECH|CLIE  
NT", "first_name": "string", "last_name": "string" }
```

```

- Response: ` { "message": "Usuario creado exitosamente" }`

### - GET `/api/users/{pk}/` — ADMIN — detalle usuario

- Prod: <https://tickethelp-backend.onrender.com/api/users/{pk}/>
- Local: <http://localhost:8000/api/users/{pk}/>

### - DELETE `/api/users/delete/{pk}` — ADMIN — borra usuario (409 si tiene tickets activos)

- Prod: <https://tickethelp-backend.onrender.com/api/users/delete/{pk}>
- Local: <http://localhost:8000/api/users/delete/{pk}>

### - POST `/api/users/deactivate/{pk}` — ADMIN — desactiva usuario → ` { "detail": "Usuario desactivado." }`

- Prod: <https://tickethelp-backend.onrender.com/api/users/deactivate/{pk}>
- Local: <http://localhost:8000/api/users/deactivate/{pk}>

### - POST `/api/users/activate/{pk}/` — ADMIN — activa usuario → ` { "detail": "Usuario activado." }`

- Prod: <https://tickethelp-backend.onrender.com/api/users/activate/{pk}/>
- Local: <http://localhost:8000/api/users/activate/{pk}/>

### - PATCH `/api/users/update-profile-picture/{pk}/` — AUTH — actualiza foto perfil

- Prod:

<https://tickethelp-backend.onrender.com/api/users/update-profile-picture/{pk}/>

- Local: <http://localhost:8000/api/users/update-profile-picture/{pk}/>

- Body: ` { "profile\_picture": "https://..." }`
- Response: ` { "message": "Foto de perfil actualizada correctamente." }`

**- GET `/api/admins/` — ADMIN — lista admins**

- Prod: <https://tickethelp-backend.onrender.com/api/admins/>
- Local: <http://localhost:8000/api/admins/>

**- GET `/api/admins/{pk}/` — ADMIN — detalle admin**

- Prod: <https://tickethelp-backend.onrender.com/api/admins/{pk}/>
- Local: <http://localhost:8000/api/admins/{pk}/>

**- GET `/api/technicians/` — ADMIN — lista técnicos**

- Prod: <https://tickethelp-backend.onrender.com/api/technicians/>
- Local: <http://localhost:8000/api/technicians/>

**- GET `/api/technicians/{pk}/` — ADMIN — detalle técnico**

- Prod: <https://tickethelp-backend.onrender.com/api/technicians/{pk}/>
- Local: <http://localhost:8000/api/technicians/{pk}/>

**- GET `/api/clients/` — ADMIN — lista clientes**

- Prod: <https://tickethelp-backend.onrender.com/api/clients/>
- Local: <http://localhost:8000/api/clients/>

**- GET `/api/clients/{document}/` — ADMIN — busca cliente por documento**

- Prod: <https://tickethelp-backend.onrender.com/api/clients/{document}/>
- Local: <http://localhost:8000/api/clients/{document}/>

- 200:

```
```json
{
  "success": true,
  "message": "Cliente encontrado exitosamente",
  "data": /* User */
}
```
```

```

- 404:

```
```json
{
  "success": false,
  "message": "El cliente con documento X no existe en el sistema",
  "suggestion": "Debe crear el cliente antes de continuar",
  "code": "CLIENT_NOT_FOUND",
  "data": null
}
```
```

```

**- GET/PATCH `/api/me/` — AUTH — actualiza perfil propio**

- Prod: <https://tickethelp-backend.onrender.com/api/me/>
- Local: <http://localhost:8000/api/me/>

- PATCH → `{"message": "Datos actualizados correctamente.", ...}`
- POST `/api/me/change-password/` — AUTH
  - Prod: <https://tickethelp-backend.onrender.com/api/me/change-password/>
  - Local: <http://localhost:8000/api/me/change-password/>
  - Body: `{"new\_password": "..."}`
    - Response: `{"message": "Contraseña actualizada correctamente, vuelve a iniciar sesión."}`
- GET `/api/me/{pk}/` — AUTH — (uso de pruebas) actualizar usuario por id
  - Prod: <https://tickethelp-backend.onrender.com/api/me/{pk}/>
  - Local: <http://localhost:8000/api/me/{pk}/>
- POST `/api/me/change-password/{pk}/` — ADMIN — cambiar contraseña por id
  - Prod: <https://tickethelp-backend.onrender.com/api/me/change-password/{pk}/>
  - Local: <http://localhost:8000/api/me/change-password/{pk}/>
  - Body: `{"new\_password": "..."}`
    - Response: `{"message": "Contraseña actualizada. Vuelve a iniciar sesión."}`
- PATCH `/api/users/update-user/{pk}/` — ADMIN — actualiza usuario arbitrario → `{"message": "Datos actualizados correctamente."}`
  - Prod: <https://tickethelp-backend.onrender.com/api/users/update-user/{pk}/>
  - Local: <http://localhost:8000/api/users/update-user/{pk}/>
- POST `/api/users/auth/login/` — PUBLIC — login JWT
  - Prod: <https://tickethelp-backend.onrender.com/api/users/auth/login/>
  - Local: <http://localhost:8000/api/users/auth/login/>
  - Body: `{"email": "user@example.com", "password": "..."}`
    - Response:
 

```
```json
{
  "refresh": "token",
  "access": "token",
  "email": "user@example.com",
  "role": "ADMIN|TECH|CLIENT",
  "is_active": true,
  "document": "string"
}
```
- POST `/api/users/auth/change-password/` — AUTH → `{"detail": "Contraseña actualizada con éxito"}`

- Prod: <https://tickethelp-backend.onrender.com/api/users/auth/change-password/>
  - Local: <http://localhost:8000/api/users/auth/change-password/>
  - GET `/api/users/auth/validate-token/ — AUTH → estado y datos del usuario**
  - Prod: <https://tickethelp-backend.onrender.com/api/users/auth/validate-token/>
  - Local: <http://localhost:8000/api/users/auth/validate-token/>
  - GET `/api/users/auth/user-data/ — AUTH → datos del usuario y claims del token**
  - Prod: <https://tickethelp-backend.onrender.com/api/users/auth/user-data/>
  - Local: <http://localhost:8000/api/users/auth/user-data/>
- 

## ## Notificaciones ( notifications/urls.py ) — AUTH

- GET `/api/notifications/ — lista del usuario**
- Prod: <https://tickethelp-backend.onrender.com/api/notifications/>
- Local: <http://localhost:8000/api/notifications/>
- Query: `estado`, `tipo`, `leidas`, `limit`, `offset`
- Response: `Array` de notificaciones
- GET `/api/notifications/{notification\_id}/ — detalle**
- Prod: [https://tickethelp-backend.onrender.com/api/notifications/{notification\\_id}/](https://tickethelp-backend.onrender.com/api/notifications/{notification_id}/)
- Local: [http://localhost:8000/api/notifications/{notification\\_id}/](http://localhost:8000/api/notifications/{notification_id}/)
- GET `/api/notifications/stats/**
- Prod: <https://tickethelp-backend.onrender.com/api/notifications/stats/>
- Local: <http://localhost:8000/api/notifications/stats/>
- Response:

```
```json
{
  "total": 10,
  "pendientes": 2,
  "enviadas": 5,
  "leidas": 3,
  "fallidas": 0,
  "no_leidas": 7
}
```

```

- GET `/api/notifications/types/ — tipos activos**
- Prod: <https://tickethelp-backend.onrender.com/api/notifications/types/>

- Local: <http://localhost:8000/api/notifications/types/>
  - GET `/api/notifications/user-notifications/` — historial**
    - Prod: <https://tickethelp-backend.onrender.com/api/notifications/user-notifications/>
    - Local: <http://localhost:8000/api/notifications/user-notifications/>
    - Response:

```
```json
{
  "message": "Historial de notificaciones",
  "total_notifications": 12,
  "notifications": [ /* Notification */ ]
}
```

```
  - POST `/api/notifications/{notification\_id}/mark-read/` — marca como leída**
    - Prod: [https://tickethelp-backend.onrender.com/api/notifications/{notification\\_id}/mark-read/](https://tickethelp-backend.onrender.com/api/notifications/{notification_id}/mark-read/)
    - Local: [http://localhost:8000/api/notifications/{notification\\_id}/mark-read/](http://localhost:8000/api/notifications/{notification_id}/mark-read/)
- 

## ## Reportes (`reports/urls.py`) — ADMIN

- GET `/api/reports/stats/general-stats/`**
  - Prod: <https://tickethelp-backend.onrender.com/api/reports/stats/general-stats/>
  - Local: <http://localhost:8000/api/reports/stats/general-stats/>
  - Response:

```
```json
{
  "tickets_abiertos": 17,
  "tickets_finalizados": 5
}
```

```
- GET `/api/reports/stats/performance-ranking/`**
  - Prod: <https://tickethelp-backend.onrender.com/api/reports/stats/performance-ranking/>
  - Local: <http://localhost:8000/api/reports/stats/performance-ranking/>
  - Response:

```
```json
[
  {
    "nombre_completo": "...",
    "tickets_asignados": 15,
    "tickets_resueltos": 12,
    "porcentaje_exito": 80.0
  }
]
```

```

```

- **GET `/api/reports/stats/clients-evolution/?year=YYYY`**

- Prod:

<https://tickethelp-backend.onrender.com/api/reports/stats/clients-evolution/?year=YY>

- Local: <http://localhost:8000/api/reports/stats/clients-evolution/?year=YYYY>

- Response:

```json

{

  "year": 2025,

  "total\_clientes": 42,

  "mensual": {

    "01":5,"02":3,"03":4,"04":6,"05":2,"06":1,"07":7,"08":4,"09":5,"10":3,"11":1,"12":1 }

}

```