

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>

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}/

- Local: 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}/

- Local: 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}

- 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/>

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## ## 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=YYYY>

- 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 }

}

```