

PlatformAdminBootstrapService

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Kind: Service

Source: `atloria-monorepo/apps/api/src/platform/platform-admin-bootstrap.service.ts`

Declarative bootstrap of platform admins from `PLATFORM_ADMIN_EMAILS` (a comma-separated k8s-secret value). Runs once on boot and treats the env list as the source of truth:

- promotes listed users that exist,
- demotes any current platform admin NOT on the list (so revocation is just an edit to the secret + redeploy).

SAFETY: when the list is empty/unset this is a NO-OP — it never mass-demotes. That protects against a misconfigured/blank secret wiping out access; recovery is the one-off `scripts/grant-platform-admin.ts` or restoring the secret.

Emails not matching any user are logged, not created — a platform admin must already be a real member of some org.

`PlatformAdminBootstrapService` reconciles platform administrator access from the `PLATFORM_ADMIN_EMAILS` environment variable during application startup. It promotes existing users listed in the comma-separated secret and demotes current platform admins omitted from it, making the secret the authoritative access list. An empty or unset value is intentionally a no-op to prevent accidental mass revocation.

Methods

Method	Signature	Returns	Description
<code>onModuleInit</code>	<code>onModuleInit()</code>	<code>Promise<void></code>	
<code>reconcile</code>	<code>reconcile()</code>	<code>Promise<{ promoted: number; demoted: number; unmatched: string[] }></code>	Exposed for tests; called on boot.

Dependencies

- PrismaService
- ConfigService

When something fails

- PlatformAdminBootstrapService handles failure in 1 place: it logs it and continues in all 1.

Diagram

```
sequenceDiagram
    participant App as NestJS Application
    participant Service as PlatformAdminBootstrapService
    participant Env as PLATFORM_ADMIN_EMAILS
    participant Users as User Repository

    App->>Service: onModuleInit()
    Service->>Env: Read and parse email list

    alt Email list is empty or unset
        Service-->>App: No-op (preserve existing admins)
    else Email list contains emails
        Service->>Users: Find users matching configured emails
        Users-->>Service: Existing users and unmatched emails

        Service->>Users: Promote matched users to platform admin
        Service->>Users: Find current platform admins
        Service->>Users: Demote admins not in configured list

        Service-->>App: Reconciliation result
    end
end
```

Usage

```
import { PlatformAdminBootstrapService } from './platform-admin-bootstrap.service';

// Normally invoked automatically by NestJS through onModuleInit().
@Injectable()
export class PlatformMaintenanceService {
    constructor(
        private readonly platformAdminBootstrap: PlatformAdminBootstrapService,
    ) {}

    async reconcilePlatformAdmins() {
```

```

const result = await this.platformAdminBootstrap.reconcile();

console.log(
  `Promoted: ${result.promoted}, demoted: ${result.demoted}`,
);

if (result.unmatched.length > 0) {
  console.warn(
    'Configured platform admin emails do not match existing users:',
    result.unmatched,
  );
}

return result;
}
}

```

AI Coding Instructions

- Treat `PLATFORM_ADMIN_EMAILS` as the source of truth only when it contains at least one valid configured value; never change the empty/unset-list no-op safety behavior.
- Do not create users for unmatched emails. Platform administrators must already exist as members of an organization.
- Preserve the startup integration through `onModuleInit()` so reconciliation runs automatically after the NestJS module initializes.
- When changing reconciliation logic, ensure both promotion and revocation paths remain idempotent and return accurate `promoted`, `demoted`, and `unmatched` counts.
- Use `scripts/grant-platform-admin.ts` or restore the configured secret for recovery scenarios rather than weakening bootstrap safety checks.

Relationships

- `DEPENDS_ON` → `PrismaService`
- `DEPENDS_ON` → `configservice`

Referenced By

- `PlatformModule` (`MODULE_PROVIDES`)
- `PlatformModule` (`MODULE_EXPORTS`)