```html
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />

  <title>KeylessSSL — Delegated DCV for Wildcard TLS. No DNS Root Keys in Prod.</title>
  <meta name="description" content="Automate wildcard SSL via delegated DCV. Keep DNS
root keys in your vault. ACME-ready. Built for 47-day renewal cadence. Runs on Cloudflare
edge." />
  <meta name="keywords" content="SSL certificate API, wildcard SSL automation, delegated
DCV, ACME, DNS-01 challenge, certbot alternative, DCVaaS" />

  <!-- Open Graph -->
  <meta property="og:title" content="KeylessSSL — Keyless DNS Validation for ACME" />
  <meta property="og:description" content="Stop leaking DNS root keys. Delegate
_acme-challenge once. Automate renewals forever." />
  <meta property="og:type" content="website" />

  <style>
   :root{
    --bg0:#070a10;
    --bg1:#0b0f17;
    --panel:#0e1522;
    --panel2:#0b1220;
    --text:#e7eef9;
    --muted:#a7b4c9;
    --faint:#7f8aa0;
    --line:rgba(255,255,255,.10);
    --line2:rgba(255,255,255,.06);
    --shadow: 0 20px 60px rgba(0,0,0,.55);

    --accent:#00d084;     /* secure green */
    --accent2:#39b7ff;    /* dev-blue */
    --danger:#ff4d6d;

    --radius:16px;
    --radius2:22px;

    --mono: ui-monospace, SFMono-Regular, Menlo, Monaco, Consolas, "Liberation Mono",
"Courier New", monospace;
    --sans: ui-sans-serif, system-ui, -apple-system, Segoe UI, Roboto, Helvetica, Arial, "Apple
Color Emoji","Segoe UI Emoji";
   }
```

```css
*{ box-sizing:border-box; }
html,body{ height:100%; }
body{
  margin:0;
  font-family:var(--sans);
  color:var(--text);
  background:
    radial-gradient(1200px 800px at 15% 10%, rgba(57,183,255,.12), transparent 60%),
    radial-gradient(900px 600px at 75% 15%, rgba(0,208,132,.10), transparent 55%),
    radial-gradient(1000px 700px at 60% 95%, rgba(255,77,109,.08), transparent 60%),
    linear-gradient(180deg, var(--bg0), var(--bg1));
  overflow-x:hidden;
}

a{ color:inherit; text-decoration:none; }
a:hover{ text-decoration:underline; text-underline-offset:3px; }
code, pre{ font-family:var(--mono); }

.skip{
  position:absolute; left:-999px; top:10px;
  padding:10px 12px; background:var(--panel);
  border:1px solid var(--line); border-radius:10px;
}
.skip:focus{ left:10px; z-index:9999; }

.container{
  width:min(1140px, calc(100% - 40px));
  margin:0 auto;
}

/* Topbar */
.topbar{
  position:sticky; top:0; z-index:50;
  backdrop-filter: blur(10px);
  background: linear-gradient(180deg, rgba(7,10,16,.85), rgba(7,10,16,.55));
  border-bottom:1px solid var(--line2);
}
.topbar-inner{
  display:flex; align-items:center; justify-content:space-between;
  padding:14px 0;
  gap:14px;
}
.brand{
```

```css
  display:flex; align-items:center; gap:10px;
  font-weight:700; letter-spacing:.2px;
  user-select:none;
}
.brand svg{ width:22px; height:22px; }
.brand .name{ display:flex; align-items:baseline; gap:8px; }
.brand .name span{ color:var(--muted); font-weight:600; font-size:.95rem; }

.nav{
  display:flex; gap:18px; align-items:center;
  color:var(--muted);
  font-size:.95rem;
}
.nav a{ opacity:.92; }
.nav a:hover{ opacity:1; text-decoration:none; }
.nav .dot{ width:4px; height:4px; border-radius:99px; background:var(--line); }

.top-actions{
  display:flex; align-items:center; gap:10px;
}

.btn{
  display:inline-flex; align-items:center; justify-content:center;
  gap:10px;
  padding:10px 14px;
  border-radius:12px;
  border:1px solid var(--line);
  background:rgba(255,255,255,.02);
  color:var(--text);
  font-weight:650;
  font-size:.95rem;
  letter-spacing:.2px;
  cursor:pointer;
  transition: transform .08s ease, border-color .12s ease, background .12s ease;
  user-select:none;
  white-space:nowrap;
}
.btn:hover{ border-color:rgba(255,255,255,.18); text-decoration:none; }
.btn:active{ transform: translateY(1px); }
.btn-primary{
  border-color: rgba(0,208,132,.45);
  background: linear-gradient(180deg, rgba(0,208,132,.18), rgba(0,208,132,.08));
  box-shadow: 0 10px 30px rgba(0,208,132,.12);
}
```

```css
.btn-primary:hover{
  border-color: rgba(0,208,132,.70);
  background: linear-gradient(180deg, rgba(0,208,132,.24), rgba(0,208,132,.10));
}
.btn-ghost{
  border-color: var(--line2);
  color:var(--muted);
  background:transparent;
}
.badge{
  display:inline-flex; align-items:center; gap:8px;
  padding:6px 10px;
  border-radius:999px;
  border:1px solid var(--line2);
  background: rgba(255,255,255,.02);
  color: var(--muted);
  font-size:.85rem;
  letter-spacing:.15px;
}
.badge strong{ color:var(--text); font-weight:700; }
.badge .ok{ width:8px; height:8px; border-radius:99px; background:var(--accent);
box-shadow:0 0 0 4px rgba(0,208,132,.10); }

/* Hero */
.hero{
  padding:70px 0 30px;
  position:relative;
}
.hero-grid{
  display:grid;
  grid-template-columns: 1.25fr .85fr;
  gap:24px;
  align-items:stretch;
}
.h-eyebrow{
  display:flex; flex-wrap:wrap; gap:10px; align-items:center;
  margin-bottom:14px;
}
.headline{
  font-size: clamp(2.1rem, 4.6vw, 3.4rem);
  line-height:1.06;
  margin:0 0 14px;
  letter-spacing:-.6px;
}
```

```css
.headline .accent{ color:var(--accent); }
.subhead{
  margin:0 0 22px;
  color:var(--muted);
  font-size:1.05rem;
  line-height:1.6;
  max-width:62ch;
}
.hero-ctas{
  display:flex;
  flex-wrap:wrap;
  gap:10px;
  align-items:center;
  margin-bottom:18px;
}
.hero-meta{
  display:flex; flex-wrap:wrap; gap:10px;
  color:var(--faint);
  font-size:.95rem;
  margin-top:10px;
}
.hero-card{
  border:1px solid var(--line2);
  border-radius: var(--radius2);
  background: linear-gradient(180deg, rgba(255,255,255,.03), rgba(255,255,255,.01));
  box-shadow: var(--shadow);
  overflow:hidden;
}
.hero-card .card-top{
  display:flex; align-items:center; justify-content:space-between;
  padding:14px 16px;
  border-bottom:1px solid var(--line2);
  background: rgba(0,0,0,.18);
}
.card-title{
  display:flex; align-items:center; gap:10px;
  font-weight:750;
  letter-spacing:.2px;
}
.card-title small{
  font-weight:650;
  color:var(--muted);
}
.chip{
```

```css
  font-family:var(--mono);
  font-size:.82rem;
  color: rgba(231,238,249,.85);
  border:1px solid var(--line2);
  background: rgba(255,255,255,.02);
  padding:6px 10px;
  border-radius:999px;
}

.codebox{
  padding:14px 16px 16px;
  font-family:var(--mono);
}
.codebox .toolbar{
  display:flex;
  align-items:center;
  justify-content:space-between;
  gap:10px;
  margin-bottom:10px;
  color:var(--muted);
  font-size:.85rem;
}
.codebox pre{
  margin:0;
  padding:14px;
  border-radius:14px;
  border:1px solid var(--line2);
  background: linear-gradient(180deg, rgba(0,0,0,.30), rgba(0,0,0,.18));
  overflow:auto;
  line-height:1.55;
  font-size:.9rem;
  color: rgba(231,238,249,.92);
}
.codebox .copy{
  display:inline-flex; align-items:center; gap:8px;
  padding:8px 10px;
  border-radius:12px;
  border:1px solid var(--line2);
  background: rgba(255,255,255,.02);
  color:var(--muted);
  cursor:pointer;
}
.codebox .copy:hover{ color:var(--text); border-color:var(--line); }
```

```css
/* Sections */
section{
  padding:58px 0;
  border-top:1px solid var(--line2);
}
.section-head{
  display:flex;
  align-items:flex-end;
  justify-content:space-between;
  gap:16px;
  margin-bottom:18px;
}
.kicker{
  font-family:var(--mono);
  color: rgba(57,183,255,.9);
  font-size:.85rem;
  letter-spacing:.12em;
  text-transform:uppercase;
  margin:0 0 10px;
}
.h2{
  margin:0;
  font-size:1.7rem;
  letter-spacing:-.2px;
}
.lead{
  margin:10px 0 0;
  color:var(--muted);
  line-height:1.7;
  max-width:78ch;
}

.grid-3{
  display:grid;
  grid-template-columns: repeat(3, 1fr);
  gap:14px;
  margin-top:18px;
}
.grid-2{
  display:grid;
  grid-template-columns: repeat(2, 1fr);
  gap:14px;
  margin-top:18px;
}
```

```css
.card{
  border:1px solid var(--line2);
  background: linear-gradient(180deg, rgba(255,255,255,.03), rgba(255,255,255,.01));
  border-radius: var(--radius);
  padding:16px;
  box-shadow: 0 18px 50px rgba(0,0,0,.35);
}
.card .row{
  display:flex; align-items:flex-start; gap:12px;
}
.icon{
  width:42px; height:42px;
  display:grid; place-items:center;
  border-radius:14px;
  border:1px solid var(--line2);
  background: rgba(0,0,0,.18);
  flex:0 0 auto;
}
.icon svg{ width:22px; height:22px; }
.card h3{
  margin:0 0 6px;
  font-size:1.08rem;
  letter-spacing:-.1px;
}
.card p{
  margin:0;
  color:var(--muted);
  line-height:1.65;
  font-size:.98rem;
}

/* Problem */
.callout{
  margin-top:16px;
  border:1px solid rgba(255,77,109,.22);
  background: linear-gradient(180deg, rgba(255,77,109,.10), rgba(255,77,109,.04));
  padding:14px 14px;
  border-radius: var(--radius);
  color: rgba(231,238,249,.95);
}
.callout strong{ color:#fff; }
.split{
  display:grid;
```

```css
  grid-template-columns: 1fr 1fr;
  gap:14px;
  margin-top:18px;
}
.mini{
  border:1px solid var(--line2);
  border-radius: var(--radius);
  background: rgba(0,0,0,.16);
  overflow:hidden;
}
.mini .mini-top{
  display:flex; align-items:center; justify-content:space-between;
  padding:10px 12px;
  border-bottom:1px solid var(--line2);
  color:var(--muted);
  font-family:var(--mono);
  font-size:.85rem;
  background: rgba(0,0,0,.20);
}
.pill-danger{
  display:inline-flex; align-items:center; gap:8px;
  padding:6px 10px;
  border-radius:999px;
  border:1px solid rgba(255,77,109,.25);
  background: rgba(255,77,109,.07);
  color: rgba(255,200,210,.95);
  font-family:var(--mono);
  font-size:.82rem;
}
.pill-ok{
  display:inline-flex; align-items:center; gap:8px;
  padding:6px 10px;
  border-radius:999px;
  border:1px solid rgba(0,208,132,.25);
  background: rgba(0,208,132,.08);
  color: rgba(205,255,235,.95);
  font-family:var(--mono);
  font-size:.82rem;
}
.mini pre{
  margin:0;
  padding:12px;
  font-family:var(--mono);
  font-size:.88rem;
```

```css
  line-height:1.55;
  color: rgba(231,238,249,.92);
  overflow:auto;
}

/* Integration */
.steps{
  margin-top:14px;
  display:grid;
  grid-template-columns: 1fr;
  gap:10px;
}
.step{
  display:flex; gap:12px;
  border:1px solid var(--line2);
  background: rgba(0,0,0,.14);
  border-radius: var(--radius);
  padding:12px 12px;
}
.step .num{
  width:28px; height:28px;
  border-radius:999px;
  display:grid; place-items:center;
  border:1px solid var(--line2);
  background: rgba(255,255,255,.02);
  font-family:var(--mono);
  color: rgba(57,183,255,.95);
  flex:0 0 auto;
}
.step .txt strong{ display:block; margin-bottom:2px; }
.step .txt{ color:var(--muted); line-height:1.55; }
.tabs{
  display:flex; flex-wrap:wrap; gap:8px;
  margin:12px 0 10px;
}
.tab{
  border:1px solid var(--line2);
  background: rgba(255,255,255,.02);
  color:var(--muted);
  padding:8px 10px;
  border-radius:999px;
  font-family:var(--mono);
  font-size:.84rem;
  cursor:pointer;
```

```css
}
.tab[aria-selected="true"]{
  border-color: rgba(57,183,255,.38);
  background: rgba(57,183,255,.12);
  color: rgba(231,238,249,.95);
}
.tabpanel{ display:none; }
.tabpanel.active{ display:block; }

/* Dashboard preview */
.dash{
  display:grid;
  grid-template-columns: .95fr 1.05fr;
  gap:14px;
  margin-top:18px;
}
.metric-row{
  display:grid; grid-template-columns: repeat(3, 1fr);
  gap:10px;
  margin-top:12px;
}
.metric{
  border:1px solid var(--line2);
  background: rgba(0,0,0,.14);
  border-radius: var(--radius);
  padding:12px;
}
.metric .k{ color:var(--muted); font-family:var(--mono); font-size:.82rem; }
.metric .v{ margin-top:6px; font-size:1.35rem; font-weight:800; letter-spacing:-.3px; }
.metric .s{ margin-top:4px; color:var(--faint); font-size:.9rem; }

.table{
  border:1px solid var(--line2);
  border-radius: var(--radius);
  overflow:hidden;
  background: rgba(0,0,0,.14);
}
.table .thead, .table .tr{
  display:grid;
  grid-template-columns: 1.2fr .9fr .8fr .8fr;
  gap:10px;
  padding:10px 12px;
  align-items:center;
}
```

```css
.table .thead{
  background: rgba(0,0,0,.22);
  color:var(--muted);
  font-family:var(--mono);
  font-size:.82rem;
  border-bottom:1px solid var(--line2);
}
.table .tr{
  border-bottom:1px solid var(--line2);
  font-size:.95rem;
}
.table .tr:last-child{ border-bottom:none; }
.status{
  display:inline-flex; align-items:center; gap:8px;
  padding:6px 10px;
  border-radius:999px;
  font-family:var(--mono);
  font-size:.82rem;
  border:1px solid var(--line2);
  background: rgba(255,255,255,.02);
  color:var(--muted);
  width:fit-content;
}
.status .dot{ width:8px; height:8px; border-radius:99px; background: var(--line); }
.status.ok{ border-color: rgba(0,208,132,.25); background: rgba(0,208,132,.07); color:
rgba(205,255,235,.95); }
.status.ok .dot{ background: var(--accent); box-shadow:0 0 0 4px rgba(0,208,132,.10); }
.status.warn{ border-color: rgba(255,205,74,.22); background: rgba(255,205,74,.06); color:
rgba(255,235,190,.95); }
.status.warn .dot{ background: #ffcd4a; box-shadow:0 0 0 4px rgba(255,205,74,.10); }
.status.err{ border-color: rgba(255,77,109,.22); background: rgba(255,77,109,.07); color:
rgba(255,200,210,.95); }
.status.err .dot{ background: var(--danger); box-shadow:0 0 0 4px rgba(255,77,109,.10); }

/* Pricing */
.pricing{
  display:grid;
  grid-template-columns: 1fr 1fr;
  gap:14px;
  margin-top:18px;
}
.price-card{
  border:1px solid var(--line2);
  background: linear-gradient(180deg, rgba(255,255,255,.03), rgba(255,255,255,.01));
```

```css
  border-radius: var(--radius2);
  padding:18px;
  position:relative;
  overflow:hidden;
}
.price-card.featured{
  border-color: rgba(0,208,132,.40);
  box-shadow: 0 25px 70px rgba(0,208,132,.12);
}
.plan{
  display:flex; align-items:center; justify-content:space-between; gap:10px;
  margin-bottom:10px;
}
.plan h3{ margin:0; font-size:1.15rem; letter-spacing:-.1px; }
.plan .tag{
  font-family:var(--mono);
  font-size:.82rem;
  border:1px solid var(--line2);
  background: rgba(255,255,255,.02);
  padding:6px 10px;
  border-radius:999px;
  color:var(--muted);
}
.price{
  display:flex; align-items:baseline; gap:10px;
  margin:10px 0 8px;
}
.price .amt{
  font-size:2.2rem;
  font-weight:900;
  letter-spacing:-.6px;
}
.price .per{ color:var(--muted); }
.ul{
  margin:12px 0 0;
  padding:0;
  list-style:none;
  display:grid; gap:10px;
}
.ul li{
  display:flex; gap:10px; align-items:flex-start;
  color:var(--muted);
  line-height:1.55;
}
```

```css
.check{
  width:18px; height:18px; border-radius:6px;
  border:1px solid rgba(0,208,132,.25);
  background: rgba(0,208,132,.08);
  display:grid; place-items:center;
  flex:0 0 auto;
  margin-top:2px;
}
.check svg{ width:12px; height:12px; }
.note{
  margin-top:14px;
  color:var(--faint);
  font-size:.95rem;
  line-height:1.6;
}

/* Docs teaser */
.link-card{
  display:flex; flex-direction:column; gap:10px;
  border:1px solid var(--line2);
  background: rgba(0,0,0,.14);
  border-radius: var(--radius);
  padding:16px;
}
.link-card .top{
  display:flex; align-items:center; justify-content:space-between; gap:10px;
}
.link-card .top strong{ font-size:1.05rem; }
.link-card .desc{ color:var(--muted); line-height:1.65; margin:0; }
.link-card .meta{ color:var(--faint); font-family:var(--mono); font-size:.85rem; }

/* FAQ */
details{
  border:1px solid var(--line2);
  border-radius: var(--radius);
  background: rgba(0,0,0,.14);
  padding:12px 14px;
}
details + details{ margin-top:10px; }
summary{
  cursor:pointer;
  font-weight:750;
  color: rgba(231,238,249,.95);
  outline:none;
```

```css
}
details p{
  margin:10px 0 0;
  color:var(--muted);
  line-height:1.7;
}

/* Footer */
footer{
  padding:34px 0 60px;
  border-top:1px solid var(--line2);
  color:var(--muted);
}
.footer-grid{
  display:flex; flex-wrap:wrap; gap:14px;
  align-items:flex-start; justify-content:space-between;
}
.footer-links{
  display:flex; flex-wrap:wrap; gap:14px;
  font-family:var(--mono);
  font-size:.9rem;
}
.fine{
  margin-top:14px;
  color:var(--faint);
  font-size:.9rem;
  line-height:1.6;
}

/* Modal */
.modal{
  position:fixed; inset:0;
  display:none;
  place-items:center;
  background: rgba(0,0,0,.60);
  backdrop-filter: blur(10px);
  z-index:100;
  padding:20px;
}
.modal.open{ display:grid; }
.modal-card{
  width:min(760px, 100%);
  border:1px solid var(--line2);
  border-radius: var(--radius2);
```

```css
    background: linear-gradient(180deg, rgba(14,21,34,.98), rgba(11,18,32,.96));
    box-shadow: var(--shadow);
    overflow:hidden;
}
.modal-head{
    display:flex; align-items:center; justify-content:space-between; gap:10px;
    padding:14px 16px;
    border-bottom:1px solid var(--line2);
    background: rgba(0,0,0,.18);
}
.modal-head strong{ letter-spacing:-.2px; }
.modal-body{ padding:16px; }
.x{
    border:1px solid var(--line2);
    background: rgba(255,255,255,.02);
    border-radius:12px;
    padding:8px 10px;
    cursor:pointer;
    color:var(--muted);
}
.x:hover{ color:var(--text); border-color:var(--line); }

.form{
    display:grid; gap:10px;
    margin-top:10px;
}
label{
    color:var(--muted);
    font-size:.92rem;
}
input{
    width:100%;
    padding:12px 12px;
    border-radius:12px;
    border:1px solid var(--line2);
    background: rgba(0,0,0,.20);
    color:var(--text);
    outline:none;
    font-family:var(--mono);
    font-size:.95rem;
}
input:focus{
    border-color: rgba(57,183,255,.40);
    box-shadow: 0 0 0 4px rgba(57,183,255,.10);
```

```css
}
.modal-actions{
  display:flex; flex-wrap:wrap; gap:10px;
  margin-top:12px;
  align-items:center;
  justify-content:flex-end;
}
.small{
  color:var(--faint);
  font-size:.9rem;
  line-height:1.6;
  margin-top:10px;
}
.token{
  margin-top:10px;
  border:1px solid rgba(0,208,132,.25);
  background: rgba(0,208,132,.07);
  border-radius: var(--radius);
  padding:12px;
}
.token .row{
  display:flex; align-items:center; justify-content:space-between; gap:10px;
  flex-wrap:wrap;
}
.token code{
  font-size:.92rem;
  color: rgba(205,255,235,.98);
  word-break:break-all;
}

/* Mobile CTA (bottom) */
.mobile-cta{
  position:fixed; left:12px; right:12px; bottom:12px;
  display:none;
  gap:10px;
  align-items:center;
  justify-content:space-between;
  padding:10px 12px;
  border-radius:16px;
  border:1px solid var(--line2);
  background: rgba(7,10,16,.72);
  backdrop-filter: blur(12px);
  z-index:60;
}
```

```css
    .mobile-cta .txt{
      display:flex; flex-direction:column; gap:2px;
    }
    .mobile-cta .txt strong{ font-size:.98rem; }
    .mobile-cta .txt span{ color:var(--muted); font-size:.88rem; }

    /* Responsiveness */
    @media (max-width: 960px){
      .hero-grid{ grid-template-columns: 1fr; }
      .grid-3{ grid-template-columns: 1fr; }
      .grid-2{ grid-template-columns: 1fr; }
      .split{ grid-template-columns: 1fr; }
      .dash{ grid-template-columns: 1fr; }
      .metric-row{ grid-template-columns: 1fr; }
      .pricing{ grid-template-columns: 1fr; }
      .nav{ display:none; }
      .mobile-cta{ display:flex; }
    }
  </style>
</head>

<body>
  <a class="skip" href="#main">Skip to content</a>

  <header class="topbar" role="banner">
    <div class="container topbar-inner">
      <div class="brand" aria-label="KeylessSSL">
        <!-- keyless icon: key with slash -->
        <svg viewBox="0 0 24 24" fill="none" aria-hidden="true">
          <path d="M9.2 14.8a5.6 5.6 0 1 1 3.6 0v2.2h2.2v2H13v2H9.2v-4.4Z"
stroke="rgba(231,238,249,.92)" stroke-width="1.6" stroke-linecap="round"
stroke-linejoin="round"/>
          <path d="M4 20 20 4" stroke="rgba(0,208,132,.92)" stroke-width="1.8"
stroke-linecap="round"/>
        </svg>
        <div class="name">
          <div>KeylessSSL</div>
          <span>delegated DCV / ACME</span>
        </div>
      </div>

      <nav class="nav" aria-label="Primary navigation">
        <a href="#problem">Root Key Risk</a>
        <span class="dot"></span>
```

```html
      <a href="#architecture">Architecture</a>
      <span class="dot"></span>
      <a href="#integration">Integration</a>
      <span class="dot"></span>
      <a href="#pricing">Pricing</a>
      <span class="dot"></span>
      <a href="#docs">Docs</a>
    </nav>

    <div class="top-actions">
     <a class="btn btn-ghost" href="#docs">Read Docs</a>
     <button class="btn btn-primary" data-open="modal-apikey">
      Get API Key — Free for 3 Domains
      <span aria-hidden="true">→</span>
     </button>
    </div>
   </div>
  </header>

  <main id="main">
   <!-- HERO -->
   <section class="hero" aria-label="Hero">
    <div class="container hero-grid">
     <div>
      <div class="h-eyebrow">
       <span class="badge"><span class="ok" aria-hidden="true"></span>
<strong>Security-first</strong> delegated DNS-01</span>
       <span class="badge"><strong>ACME v2</strong> compatible</span>
       <span class="badge"><strong>47-day</strong> renewal ready</span>
      </div>

      <h1 class="headline">
       Stop leaking your <span class="accent">DNS root keys</span><br/>
       to production servers.
      </h1>

      <p class="subhead">
       KeylessSSL automates wildcard TLS for SaaS via <strong>Delegated DCV</strong>.
       You delegate <code>_acme-challenge</code> once (CNAME). Your high-privilege DNS
credentials stay <strong>air-gapped</strong>
       in your vault. Your issuance/renewal pipeline stays stateless and repeatable.
      </p>

      <div class="hero-ctas">
```

```html
    <button class="btn btn-primary" data-open="modal-apikey">Get API Key — Free for 3
Domains</button>
      <a class="btn" href="#integration">See integration</a>
      <a class="btn btn-ghost" href="#docs">Why certbot becomes technical debt</a>
    </div>

    <div class="hero-meta">
     <span>✅ Wildcards via DNS-01</span>
     <span>•</span>
     <span>✅ Scoped API keys (shown once)</span>
     <span>•</span>
     <span>✅ Cloudflare edge execution model</span>
    </div>

    <div class="callout" style="margin-top:18px;">
      <strong>Root Key Vulnerability:</strong> if one server in your fleet is compromised and
it holds a global DNS token,
      your entire zone is gone. Delegated DCV narrows the blast radius to a single,
purpose-built label.
    </div>
   </div>

   <aside class="hero-card" aria-label="Terminal demo">
    <div class="card-top">
     <div class="card-title">
       <span>Integration</span>
       <small>"Add CNAME and go"</small>
     </div>
     <span class="chip">keylessssl.dev</span>
    </div>

    <div class="codebox">
     <div class="toolbar">
       <span>One-time delegation + ACME issuance</span>
       <button class="copy" type="button" data-copy="#hero-snippet">Copy</button>
     </div>

      <pre id="hero-snippet"><code># 1) One-time: delegate validation
_acme-challenge.example.com  CNAME  3f1c9e.keylessssl.dev.

# 2) Issue/renew (ACME client of your choice)
export KEYLESSSSL_TOKEN="kssl_live_•••"

curl -sS https://api.keylessssl.dev/v1/certificates/issue \
```

```
  -H "Authorization: Bearer $KEYLESSSSL_TOKEN" \
  -d '{"domain":"example.com","wildcard":true,"acme":"letsencrypt"}'</code></pre>

        <div class="small">
          You never place Route53/Cloudflare root credentials on CI runners, app nodes, or k8s
workloads.
          You delegate only the ACME challenge label.
        </div>
      </div>
    </aside>
  </div>
</section>

<!-- PROBLEM -->
<section id="problem" aria-label="Problem statement">
  <div class="container">
    <div class="section-head">
      <div>
        <p class="kicker">ROOT KEY RISK</p>
        <h2 class="h2">Today's wildcard automation is a security failure mode.</h2>
        <p class="lead">
          To automate wildcard SSL, teams routinely ship high-privilege DNS API credentials into
places that get compromised:
          CI runners, containers, autoscaled nodes, or shared build agents. That's not
"automation" — it's an incident waiting to happen.
        </p>
      </div>
    </div>

    <div class="split">
      <div class="mini">
        <div class="mini-top">
          <span>Common anti-pattern</span>
          <span class="pill-danger">root keys in prod</span>
        </div>
        <pre><code># certbot + DNS plugin
export CF_API_TOKEN="***global-dns-token***"
export AWS_ACCESS_KEY_ID="AKIA***"
export AWS_SECRET_ACCESS_KEY="***"

# One node compromised → DNS zone takeover
# TXT record injection → account takeover + phishing
# credential re-use across environments</code></pre>
      </div>
```

```html
    <div class="mini">
      <div class="mini-top">
        <span>KeylessSSL model</span>
        <span class="pill-ok">delegated DCV</span>
      </div>
      <pre><code># One-time: delegate only ACME challenge label
_acme-challenge.example.com  CNAME  3f1c9e.keylesssssl.dev.

# KeylessSSL handles TXT placement behind the CNAME
# No root DNS credentials on your infrastructure
# Blast radius constrained to validation subdomain</code></pre>
    </div>
  </div>

  <div class="grid-3">
    <div class="card">
      <div class="row">
        <div class="icon" aria-hidden="true">
          <svg viewBox="0 0 24 24" fill="none">
            <path d="M12 2 20 6v6c0 5-3.2 9.4-8 10-4.8-.6-8-5-8-10V6l8-4Z" stroke="rgba(0,208,132,.92)" stroke-width="1.8" stroke-linejoin="round"/>
            <path d="M8.7 12.2 11 14.5l4.6-5.1" stroke="rgba(231,238,249,.92)" stroke-width="1.8" stroke-linecap="round" stroke-linejoin="round"/>
          </svg>
        </div>
        <div>
          <h3>Credential blast radius</h3>
          <p>If a global DNS token leaks, attackers can rewrite A/AAAA/MX/TXT across your entire zone. Delegated DCV removes root keys from the path.</p>
        </div>
      </div>
    </div>

    <div class="card">
      <div class="row">
        <div class="icon" aria-hidden="true">
          <svg viewBox="0 0 24 24" fill="none">
            <path d="M7 8V7a5 5 0 0 1 10 0v1" stroke="rgba(231,238,249,.92)" stroke-width="1.8" stroke-linecap="round"/>
            <path d="M6 8h12v12H6V8Z" stroke="rgba(57,183,255,.92)" stroke-width="1.8" stroke-linejoin="round"/>
            <path d="M12 12v4" stroke="rgba(231,238,249,.92)" stroke-width="1.8" stroke-linecap="round"/>
```

```
          </svg>
        </div>
        <div>
         <h3>Operational debt</h3>
         <p>Stateful ACME clients on stateless infrastructure create race conditions and
"works until it doesn't" cron jobs. Delegated validation makes renewal a boring API call.</p>
        </div>
       </div>
      </div>

      <div class="card">
       <div class="row">
        <div class="icon" aria-hidden="true">
         <svg viewBox="0 0 24 24" fill="none">
          <path d="M12 7v5l3 2" stroke="rgba(231,238,249,.92)" stroke-width="1.8"
stroke-linecap="round" stroke-linejoin="round"/>
          <path d="M12 21a9 9 0 1 0-9-9 9 9 0 0 0 9 9Z" stroke="rgba(0,208,132,.92)"
stroke-width="1.8"/>
         </svg>
        </div>
        <div>
         <h3>47-day renewal reality</h3>
         <p>Shorter certificate lifetimes mean higher renewal frequency. KeylessSSL is built
for high-churn renewals — not "set it and pray" scripts.</p>
        </div>
       </div>
      </div>
     </div>
    </div>
   </section>

   <!-- ARCHITECTURE -->
   <section id="architecture" aria-label="Solution architecture">
    <div class="container">
     <div class="section-head">
      <div>
       <p class="kicker">THE ARCHITECTURE</p>
       <h2 class="h2">Delegated DCV: air-gapped validation by construction.</h2>
       <p class="lead">
        KeylessSSL doesn't ask for your DNS root keys. You delegate only the ACME
challenge label.
        We handle TXT placement behind that delegation on an edge execution model built for
reliability and speed.
       </p>
```

```
          </div>
        </div>

        <div class="grid-3">
          <div class="card">
            <div class="row">
              <div class="icon" aria-hidden="true">
                <svg viewBox="0 0 24 24" fill="none">
                  <path d="M12 3 4 7v6c0 5 3.2 9.4 8 10 4.8-.6 8-5 8-10V7l-8-4Z"
stroke="rgba(0,208,132,.92)" stroke-width="1.8" stroke-linejoin="round"/>
                  <path d="M9.4 12.2 11 13.8l3.8-4.1" stroke="rgba(231,238,249,.92)"
stroke-width="1.8" stroke-linecap="round" stroke-linejoin="round"/>
                </svg>
              </div>
              <div>
                <h3>Air-Gapped Validation</h3>
                <p>Root DNS keys never transit KeylessSSL. Delegation constrains write access to
the validation label only.</p>
              </div>
            </div>
          </div>

          <div class="card">
            <div class="row">
              <div class="icon" aria-hidden="true">
                <svg viewBox="0 0 24 24" fill="none">
                  <path d="M7 3v3M17 3v3" stroke="rgba(231,238,249,.92)" stroke-width="1.8"
stroke-linecap="round"/>
                  <path d="M5 7h14v14H5V7Z" stroke="rgba(57,183,255,.92)" stroke-width="1.8"
stroke-linejoin="round"/>
                  <path d="M8 11h8M8 15h6" stroke="rgba(231,238,249,.92)" stroke-width="1.8"
stroke-linecap="round"/>
                </svg>
              </div>
              <div>
                <h3>47-Day Renewal Readiness</h3>
                <p>Designed for high-frequency renewals, queueing, and retry semantics that won't
fall apart as lifetimes shorten.</p>
              </div>
            </div>
          </div>

          <div class="card">
            <div class="row">
```

```html
        <div class="icon" aria-hidden="true">
          <svg viewBox="0 0 24 24" fill="none">
            <path d="M7 17a4 4 0 0 1 0-8 5 5 0 0 1 9.7 1.3A3.5 3.5 0 1 1 18 17H7Z"
stroke="rgba(0,208,132,.92)" stroke-width="1.8" stroke-linecap="round"
stroke-linejoin="round"/>
            <path d="M9 14h6" stroke="rgba(231,238,249,.92)" stroke-width="1.8"
stroke-linecap="round"/>
          </svg>
        </div>
        <div>
          <h3>Cloudflare-Powered Reliability</h3>
          <p>Edge execution model + anycast DNS behavior for fast propagation and
predictable validation. Enterprise-grade uptime without enterprise pricing.</p>
        </div>
      </div>
    </div>
  </div>

    <div class="card" style="margin-top:14px;">
      <div class="row" style="align-items:center;">
        <div class="icon" aria-hidden="true">
          <svg viewBox="0 0 24 24" fill="none">
            <path d="M4 12h16" stroke="rgba(231,238,249,.92)" stroke-width="1.8"
stroke-linecap="round"/>
            <path d="M7 7h10M7 17h10" stroke="rgba(57,183,255,.92)" stroke-width="1.8"
stroke-linecap="round"/>
            <path d="M12 4v16" stroke="rgba(0,208,132,.92)" stroke-width="1.8"
stroke-linecap="round"/>
          </svg>
        </div>
        <div>
          <h3 style="margin:0 0 6px;">Threat model summary</h3>
          <p style="margin:0;">
            KeylessSSL holds <strong>scoped service credentials</strong> for delegated
validation only. Your DNS root keys remain off-path.
            API keys are <strong>shown once</strong>, stored hashed, and are rotatable. Audit
logs are first-class.
          </p>
        </div>
      </div>
    </div>
  </div>
  </div>
</section>
```

```html
<!-- INTEGRATION -->
<section id="integration" aria-label="Integration">
  <div class="container">
    <div class="section-head">
      <div>
        <p class="kicker">INTEGRATION</p>
        <h2 class="h2">Add one CNAME. Automate everything.</h2>
        <p class="lead">
          The workflow is intentionally boring: delegate once, then issue/renew via API or ACME.
          No global DNS token distribution. No per-workload secret sprawl.
        </p>
      </div>
      <div>
        <button class="btn btn-primary" data-open="modal-apikey">Get API Key</button>
      </div>
    </div>

    <div class="grid-2">
      <div class="card">
        <h3 style="margin:0 0 10px;">Minimal steps</h3>
        <div class="steps">
          <div class="step">
            <div class="num">1</div>
            <div class="txt">
              <strong>Delegate the ACME label</strong>
              Add a CNAME for <code>_acme-challenge.yourdomain.tld</code> → your
KeylessSSL target.
            </div>
          </div>
          <div class="step">
            <div class="num">2</div>
            <div class="txt">
              <strong>Verify (once)</strong>
              KeylessSSL confirms delegation and starts serving DNS-01 TXT records behind the
CNAME.
            </div>
          </div>
          <div class="step">
            <div class="num">3</div>
            <div class="txt">
              <strong>Issue + renew</strong>
              Use API in CI/CD or point an ACME client at KeylessSSL's directory endpoint.
            </div>
          </div>
```

```html
        </div>

        <div class="note">
          Designed for multi-tenant SaaS: automate wildcards per customer zone without
distributing privileged DNS tokens across your fleet.
        </div>
      </div>

      <div class="card">
        <div class="tabs" role="tablist" aria-label="Integration code tabs">
          <button class="tab" role="tab" aria-selected="true" aria-controls="tab-cname"
id="t-cname" data-tab="cname">CNAME delegation</button>
          <button class="tab" role="tab" aria-selected="false" aria-controls="tab-curl" id="t-curl"
data-tab="curl">API (curl)</button>
          <button class="tab" role="tab" aria-selected="false" aria-controls="tab-tf" id="t-tf"
data-tab="tf">Terraform</button>
          <button class="tab" role="tab" aria-selected="false" aria-controls="tab-actions"
id="t-actions" data-tab="actions">GitHub Actions</button>
        </div>

        <div class="mini" style="margin-top:8px;">
          <div class="mini-top">
            <span id="tab-title">cname.keylessssl.dev</span>
            <div style="display:flex; gap:10px; align-items:center;">
              <span class="chip" id="tab-lang">dns</span>
              <button class="copy" type="button" data-copy="#tab-snippet">Copy</button>
            </div>
          </div>

          <div class="tabpanel active" id="tab-cname" role="tabpanel"
aria-labelledby="t-cname">
            <pre id="tab-snippet"><code>; one-time delegation
_acme-challenge.example.com.  60  IN  CNAME  3f1c9e.keylessssl.dev.

; KeylessSSL serves the TXT behind the CNAME
; CA queries: _acme-challenge.example.com → CNAME target → TXT</code></pre>
          </div>

          <div class="tabpanel" id="tab-curl" role="tabpanel" aria-labelledby="t-curl">
            <pre><code># Issue wildcard certificate (stateless, repeatable)
export KEYLESSSSL_TOKEN="kssl_live_•••"

curl -sS https://api.keylessssl.dev/v1/certificates/issue \
  -H "Authorization: Bearer $KEYLESSSSL_TOKEN" \
```

```
  -H "Content-Type: application/json" \
  -d '{
    "domain": "example.com",
    "wildcard": true,
    "acme": "letsencrypt",
    "chain": "default"
  }'</code></pre>
          </div>

          <div class="tabpanel" id="tab-tf" role="tabpanel" aria-labelledby="t-tf">
            <pre><code># pseudo-provider: keylessssl (illustrative)
provider "keylessssl" {
  token = var.keylessssl_token
}

resource "keylessssl_domain" "primary" {
  apex = "example.com"
}

output "delegation_record" {
  value = keylessssl_domain.primary.delegation_cname
}</code></pre>
          </div>

          <div class="tabpanel" id="tab-actions" role="tabpanel" aria-labelledby="t-actions">
            <pre><code>name: renew-tls
on:
  schedule:
    - cron: "0 */12 * * *"   # 47-day world = renew often
jobs:
  renew:
    runs-on: ubuntu-latest
    steps:
      - name: Issue/Renew via KeylessSSL API
        env:
          KEYLESSSSL_TOKEN: ${{ secrets.KEYLESSSSL_TOKEN }}
        run: |
          curl -sS https://api.keylessssl.dev/v1/certificates/issue \
            -H "Authorization: Bearer $KEYLESSSSL_TOKEN" \
            -d '{"domain":"example.com","wildcard":true}'</code></pre>
          </div>
        </div>

        <div class="small">
```

Real product behavior: API keys are scoped and rotatable; tokens are shown once. Store them in your secret manager, not in repo variables.
        </div>
      </div>
    </div>
  </div>
  </section>

  <!-- DASHBOARD PREVIEW -->
  <section id="dashboard" aria-label="Developer dashboard preview">
   <div class="container">
     <div class="section-head">
       <div>
        <p class="kicker">DEVELOPER DASHBOARD</p>
        <h2 class="h2">Visibility, scoped access, and boring renewals.</h2>
        <p class="lead">
         A dev-first portal: domain inventory, delegation status, issuance history, and API key management.
         Keys are displayed once. Backend stores hashes. Rotation is a button, not a ticket.
        </p>
      </div>
      <div>
        <button class="btn" data-open="modal-apikey">Generate scoped API key</button>
      </div>
    </div>

    <div class="dash">
     <div class="card">
       <h3 style="margin:0 0 6px;">Account health</h3>
       <p style="margin:0; color:var(--muted); line-height:1.65;">
        Key signals you care about when you're on-call.
       </p>

       <div class="metric-row">
        <div class="metric">
          <div class="k">domains.active</div>
          <div class="v">12</div>
          <div class="s">9 verified • 3 pending</div>
        </div>
        <div class="metric">
          <div class="k">renewals.window</div>
          <div class="v">47d</div>
          <div class="s">high-frequency safe</div>
        </div>

```html
      <div class="metric">
        <div class="k">api.rate_limit</div>
        <div class="v">120</div>
        <div class="s">req/min (tenant)</div>
      </div>
    </div>

    <div class="callout" style="margin-top:12px;">
      <strong>Key policy:</strong> keys are shown once. Key hashes are stored
server-side.
      Rotation is supported; audit logs record key creation + usage metadata.
    </div>
  </div>

  <div class="card">
    <h3 style="margin:0 0 10px;">Domains</h3>
    <div class="table" role="table" aria-label="Domains table">
      <div class="thead" role="row">
        <div role="columnheader">apex</div>
        <div role="columnheader">delegation</div>
        <div role="columnheader">cert</div>
        <div role="columnheader">renewal</div>
      </div>

      <div class="tr" role="row">
        <div role="cell"><code>example.com</code></div>
        <div role="cell"><span class="status ok"><span
class="dot"></span>verified</span></div>
        <div role="cell"><span class="status ok"><span
class="dot"></span>active</span></div>
        <div role="cell"><code>in 12d</code></div>
      </div>

      <div class="tr" role="row">
        <div role="cell"><code>tenant-a.io</code></div>
        <div role="cell"><span class="status warn"><span
class="dot"></span>pending</span></div>
        <div role="cell"><span class="status"><span class="dot"></span>none</span></div>
        <div role="cell"><code>—</code></div>
      </div>

      <div class="tr" role="row">
        <div role="cell"><code>prod-saas.net</code></div>
```

```html
        <div role="cell"><span class="status ok"><span
class="dot"></span>verified</span></div>
          <div role="cell"><span class="status err"><span
class="dot"></span>error</span></div>
          <div role="cell"><code>retrying</code></div>
        </div>

        <div class="tr" role="row">
          <div role="cell"><code>customer-42.dev</code></div>
          <div role="cell"><span class="status ok"><span
class="dot"></span>verified</span></div>
          <div role="cell"><span class="status ok"><span
class="dot"></span>active</span></div>
          <div role="cell"><code>in 2d</code></div>
        </div>
      </div>

      <div class="note">
        Status is explicit: missing delegation, propagation delay, validation failures, and CA
responses are surfaced with trace IDs (for support and postmortems).
      </div>
    </div>
   </div>
  </div>
 </section>

 <!-- PRICING -->
 <section id="pricing" aria-label="Pricing">
  <div class="container">
    <div class="section-head">
     <div>
       <p class="kicker">PRICING</p>
       <h2 class="h2">Undercut the incumbents. Keep the security posture.</h2>
       <p class="lead">
         Start free. Upgrade when you're running real volume. Pricing is intentionally
dev-friendly — because this is infrastructure, not a luxury brand.
       </p>
     </div>
    </div>

    <div class="pricing">
     <div class="price-card">
       <div class="plan">
         <h3>Hacker</h3>
```

```
      <span class="tag">Free</span>
    </div>

    <div class="price">
     <div class="amt">$0</div>
     <div class="per">/ month</div>
    </div>

    <ul class="ul">
     <li><span class="check" aria-hidden="true">
      <svg viewBox="0 0 24 24" fill="none"><path d="M6.5 12.4 10 15.8 17.5 8.2"
stroke="rgba(0,208,132,.92)" stroke-width="2.2" stroke-linecap="round"
stroke-linejoin="round"/></svg>
      </span>Up to <strong>3 domains</strong> (wildcards included)</li>

     <li><span class="check" aria-hidden="true">
      <svg viewBox="0 0 24 24" fill="none"><path d="M6.5 12.4 10 15.8 17.5 8.2"
stroke="rgba(0,208,132,.92)" stroke-width="2.2" stroke-linecap="round"
stroke-linejoin="round"/></svg>
      </span>Delegated DCV (CNAME) + verification</li>

     <li><span class="check" aria-hidden="true">
      <svg viewBox="0 0 24 24" fill="none"><path d="M6.5 12.4 10 15.8 17.5 8.2"
stroke="rgba(0,208,132,.92)" stroke-width="2.2" stroke-linecap="round"
stroke-linejoin="round"/></svg>
      </span>Dashboard status + basic logs</li>

     <li><span class="check" aria-hidden="true">
      <svg viewBox="0 0 24 24" fill="none"><path d="M6.5 12.4 10 15.8 17.5 8.2"
stroke="rgba(0,208,132,.92)" stroke-width="2.2" stroke-linecap="round"
stroke-linejoin="round"/></svg>
      </span>Built for <strong>47-day</strong> renewal cadence</li>
    </ul>

    <div class="note">
      Perfect for indie SaaS, side projects, and validating the architecture before you migrate
production automation.
    </div>

    <div class="modal-actions" style="justify-content:flex-start;">
     <button class="btn btn-primary" data-open="modal-apikey">Get API Key</button>
     <a class="btn btn-ghost" href="#docs">Docs</a>
    </div>
   </div>
```

```html
<div class="price-card featured">
  <div class="plan">
    <h3>Pro</h3>
    <span class="tag">$15</span>
  </div>

  <div class="price">
    <div class="amt">$15</div>
    <div class="per">/ month</div>
  </div>

  <ul class="ul">
    <li><span class="check" aria-hidden="true">
      <svg viewBox="0 0 24 24" fill="none"><path d="M6.5 12.4 10 15.8 17.5 8.2"
stroke="rgba(0,208,132,.92)" stroke-width="2.2" stroke-linecap="round"
stroke-linejoin="round"/></svg>
    </span>Up to <strong>50 domains</strong> (wildcards included)</li>

    <li><span class="check" aria-hidden="true">
      <svg viewBox="0 0 24 24" fill="none"><path d="M6.5 12.4 10 15.8 17.5 8.2"
stroke="rgba(0,208,132,.92)" stroke-width="2.2" stroke-linecap="round"
stroke-linejoin="round"/></svg>
    </span>API access + scoped keys + rotation</li>

    <li><span class="check" aria-hidden="true">
      <svg viewBox="0 0 24 24" fill="none"><path d="M6.5 12.4 10 15.8 17.5 8.2"
stroke="rgba(0,208,132,.92)" stroke-width="2.2" stroke-linecap="round"
stroke-linejoin="round"/></svg>
    </span>Priority queueing + richer audit logs</li>

    <li><span class="check" aria-hidden="true">
      <svg viewBox="0 0 24 24" fill="none"><path d="M6.5 12.4 10 15.8 17.5 8.2"
stroke="rgba(0,208,132,.92)" stroke-width="2.2" stroke-linecap="round"
stroke-linejoin="round"/></svg>
    </span>Multi-tenant workflows + higher rate limits</li>
  </ul>

  <div class="note">
    <strong>Cheaper than typical competitors</strong> without compromising the threat
model. Built for teams that ship fast and hate secret sprawl.
  </div>

  <div class="modal-actions" style="justify-content:flex-start;">
```

```html
      <button class="btn btn-primary" data-open="modal-apikey">Start Pro</button>
      <a class="btn" href="#integration">Integrate now</a>
    </div>
   </div>
  </div>

  <div class="small" style="margin-top:16px;">
    <strong>Note:</strong> pricing values here are placeholders aligned with the brand
package.
    If you already have final numbers, swap them in and keep the "undercut incumbents"
narrative.
   </div>
  </div>
 </section>

 <!-- DOCS / BLOG TEASER -->
 <section id="docs" aria-label="Docs and blog teaser">
  <div class="container">
   <div class="section-head">
    <div>
     <p class="kicker">DOCS + THOUGHT LEADERSHIP</p>
     <h2 class="h2">By developers, for developers.</h2>
     <p class="lead">
      Your audience wants to know <em>how</em> it works. Give them primitives:
endpoints, failure modes, and clear operational semantics.
     </p>
    </div>
   </div>

   <div class="grid-2">
    <a class="link-card" href="#" aria-label="API documentation">
     <div class="top">
      <strong>Documentation: API + ACME</strong>
      <span class="chip">/docs</span>
     </div>
     <p class="desc">
      Domain onboarding, delegation verification, issuance endpoints, key rotation,
webhooks, and audit log schema.
      No marketing fluff — just the contract.
     </p>
     <div class="meta">keywords: ssl certificate api • dns-01 challenge • wildcard ssl
automation</div>
    </a>
```

```html
      <a class="link-card" href="#" aria-label="Blog: Why certbot is technical debt">
        <div class="top">
          <strong>Blog: "Why certbot is technical debt"</strong>
          <span class="chip">/blog</span>
        </div>
        <p class="desc">
          Certbot works… until your infra goes stateless, your renewal window shrinks, and your
DNS tokens spread across environments.
          Delegated DCV removes the root key requirement and hardens the pipeline.
        </p>
        <div class="meta">keywords: certbot alternative • acme client • renewals</div>
      </a>
      </div>
    </div>
  </section>

  <!-- FAQ -->
  <section id="faq" aria-label="FAQ">
    <div class="container">
      <div class="section-head">
        <div>
          <p class="kicker">FAQ</p>
          <h2 class="h2">Technical questions, answered directly.</h2>
          <p class="lead">
            No hand-waving. If a design decision affects risk, we say so.
          </p>
        </div>
      </div>

      <details>
        <summary>Do you ever need my DNS root keys?</summary>
        <p>
          No. The model is delegated DCV: you add a CNAME for
<code>_acme-challenge</code> to a KeylessSSL-controlled target. Your zone's
          high-privilege API credentials never have to touch your workloads (or ours).
        </p>
      </details>

      <details>
        <summary>Does this work for wildcard certificates?</summary>
        <p>
          Yes. Wildcards require DNS-01 validation. Delegating the ACME label is purpose-built
for that: KeylessSSL serves TXT records behind the CNAME.
        </p>
```

```
    </details>

    <details>
     <summary>How do you handle shorter certificate lifetimes (e.g., 47-day
cadence)?</summary>
      <p>
       The platform is designed around frequent renewals: stateless issuance calls, explicit
status tracking, and retry/queue semantics.
       The intent is to prevent "cron drift" and renewal surprises as lifetimes compress.
      </p>
     </details>

     <details>
      <summary>How are API keys stored?</summary>
      <p>
       Keys are displayed once at creation time. Server-side storage is hash-based (so the
plaintext cannot be recovered).
       Rotation is supported and should be part of your standard incident readiness posture.
      </p>
     </details>
    </div>
   </section>

   <!-- FOOTER -->
   <footer aria-label="Footer">
    <div class="container">
     <div class="footer-grid">
      <div>
       <div class="brand" style="opacity:.95;">
        <svg viewBox="0 0 24 24" fill="none" aria-hidden="true">
         <path d="M9.2 14.8a5.6 5.6 0 1 1 3.6 0v2.2h2.2v2H13v2H9.2v-4.4Z"
stroke="rgba(231,238,249,.92)" stroke-width="1.6" stroke-linecap="round"
stroke-linejoin="round"/>
         <path d="M4 20 20 4" stroke="rgba(0,208,132,.92)" stroke-width="1.8"
stroke-linecap="round"/>
        </svg>
        <div class="name">
         <div>KeylessSSL</div>
         <span>DCVaaS platform</span>
        </div>
       </div>
       <div class="fine">
        Security-first SSL automation for multi-tenant SaaS. Delegate DCV once, remove root
keys from the pipeline.
```

```html
        <br/>© <span id="year"></span> KeylessSSL. All rights reserved.
      </div>
    </div>

    <div class="footer-links">
      <a href="#">/docs</a>
      <a href="#">/status</a>
      <a href="#">/security</a>
      <a href="#">/changelog</a>
      <a href="#">/github</a>
      <a href="#pricing">/pricing</a>
    </div>
   </div>
  </div>
 </footer>
</main>

<!-- Mobile CTA -->
<div class="mobile-cta" role="region" aria-label="Persistent signup call to action">
 <div class="txt">
  <strong>Get API Key</strong>
  <span>Free for 3 domains</span>
 </div>
 <button class="btn btn-primary" data-open="modal-apikey">Start →</button>
</div>

<!-- API KEY MODAL -->
 <div class="modal" id="modal-apikey" role="dialog" aria-modal="true"
aria-labelledby="apikey-title">
  <div class="modal-card">
   <div class="modal-head">
    <strong id="apikey-title">Get API Key (shown once)</strong>
    <button class="x" type="button" data-close aria-label="Close">Esc</button>
   </div>

   <div class="modal-body">
    <p style="margin:0; color:var(--muted); line-height:1.7;">
     Create a scoped API key for CI/CD or platform integration. Keys are displayed once.
Store it in your vault.
    </p>

    <form class="form" id="apikey-form">
     <div>
      <label for="email">email</label>
```

```html
      <input id="email" name="email" type="email" placeholder="you@company.com" required />
    </div>

    <div>
      <label for="scope">scope</label>
      <input id="scope" name="scope" type="text" value="domains:read domains:write certs:issue" />
    </div>

    <div class="modal-actions">
      <button class="btn btn-ghost" type="button" data-close>Cancel</button>
      <button class="btn btn-primary" type="submit">Generate API Key</button>
    </div>
  </form>

  <div class="token" id="token-box" style="display:none;">
    <div class="row">
      <div style="display:flex; flex-direction:column; gap:6px;">
        <div style="color:rgba(205,255,235,.95); font-weight:800;">Your API Key</div>
        <code id="token-value">kssl_live_…</code>
      </div>
      <button class="btn" type="button" id="copy-token">Copy</button>
    </div>

    <div class="small">
      Store this in a secret manager immediately. For security, it won't be shown again.
    </div>
  </div>

  <div class="small">
    Security posture: do not embed tokens in images, tickets, or logs. Rotate keys on role changes and after any suspected exposure.
  </div>
    </div>
  </div>
</div>

<script>
  // --- Year
  document.getElementById('year').textContent = new Date().getFullYear();

  // --- Modal open/close
  const modals = new Map();
```

```javascript
document.querySelectorAll('.modal').forEach(m => modals.set(m.id, m));

function openModal(id){
  const m = modals.get(id);
  if(!m) return;
  m.classList.add('open');
  m.dataset.open = "true";
  // focus first input if present
  const first = m.querySelector('input,button,select,textarea');
  if(first) setTimeout(() => first.focus(), 0);
  document.body.style.overflow = 'hidden';
}
function closeModal(el){
  const m = el.closest('.modal');
  if(!m) return;
  m.classList.remove('open');
  m.dataset.open = "false";
  document.body.style.overflow = '';
}

document.addEventListener('click', (e) => {
  const open = e.target.closest('[data-open]');
  if(open){
    openModal(open.getAttribute('data-open'));
    return;
  }
  if(e.target.matches('[data-close]')){
    closeModal(e.target);
    return;
  }
  // click backdrop closes
  if(e.target.classList.contains('modal')){
    e.target.classList.remove('open');
    document.body.style.overflow = '';
  }
});

document.addEventListener('keydown', (e) => {
  if(e.key !== 'Escape') return;
  const open = document.querySelector('.modal.open');
  if(open){
    open.classList.remove('open');
    document.body.style.overflow = '';
  }
```

```javascript
  });

  // --- Copy buttons
  async function copyText(text){
    try{
      await navigator.clipboard.writeText(text);
      return true;
    }catch(err){
      return false;
    }
  }

  document.addEventListener('click', async (e) => {
    const btn = e.target.closest('[data-copy]');
    if(!btn) return;
    const sel = btn.getAttribute('data-copy');
    const el = document.querySelector(sel);
    if(!el) return;
    const text = el.innerText || el.textContent || '';
    const ok = await copyText(text.trim());
    btn.textContent = ok ? 'Copied' : 'Copy failed';
    setTimeout(() => btn.textContent = 'Copy', 900);
  });

  // --- Tabs (integration)
  const tabs = document.querySelectorAll('.tab');
  const panels = document.querySelectorAll('.tabpanel');
  const tabTitle = document.getElementById('tab-title');
  const tabLang = document.getElementById('tab-lang');

  function setActive(tabName){
    tabs.forEach(t => {
      const on = t.dataset.tab === tabName;
      t.setAttribute('aria-selected', on ? 'true' : 'false');
    });
    panels.forEach(p => p.classList.toggle('active', p.id === `tab-${tabName}`));

    const titles = { cname: 'cname.keylessssl.dev', curl: 'api.keylessssl.dev', tf: 'terraform',
actions: 'github-actions' };
    const langs = { cname: 'dns', curl: 'bash', tf: 'hcl', actions: 'yaml' };
    tabTitle.textContent = titles[tabName] || 'keylessssl';
    tabLang.textContent = langs[tabName] || 'text';

    // update copy target (only cname tab has the #tab-snippet id)
```

```javascript
  const copyBtn = document.querySelector('.mini .copy[data-copy="#tab-snippet"]');
  if(copyBtn){
    const activePanel = document.querySelector('.tabpanel.active pre');
    if(activePanel){
      // assign id to the active pre for copying
      panels.forEach(p => {
        const pre = p.querySelector('pre');
        if(pre) pre.removeAttribute('id');
      });
      activePanel.id = 'tab-snippet';
    }
  }
}

tabs.forEach(t => t.addEventListener('click', () => setActive(t.dataset.tab)));

// --- API key generator (UI demo)
function randomToken(prefix){
  const bytes = new Uint8Array(24);
  crypto.getRandomValues(bytes);
  const b64 = btoa(String.fromCharCode(...bytes))
    .replaceAll('+','-').replaceAll('/','_').replaceAll('=','');
  return `${prefix}_${b64}`;
}

const form = document.getElementById('apikey-form');
const tokenBox = document.getElementById('token-box');
const tokenValue = document.getElementById('token-value');
const copyTokenBtn = document.getElementById('copy-token');

form.addEventListener('submit', async (e) => {
  e.preventDefault();
  const token = randomToken('kssl_live');
  tokenValue.textContent = token;
  tokenBox.style.display = 'block';
  // scroll into view for visibility
  tokenBox.scrollIntoView({ behavior:'smooth', block:'nearest' });
});

copyTokenBtn.addEventListener('click', async () => {
  const ok = await copyText(tokenValue.textContent.trim());
  copyTokenBtn.textContent = ok ? 'Copied' : 'Copy failed';
  setTimeout(() => copyTokenBtn.textContent = 'Copy', 900);
});
```

```
  </script>
</body>
</html>
```

UI notes (what this template already bakes in)

- Security-first copy + visuals: "Root Key Vulnerability" framing, keyless iconography, scoped key policy ("shown once"), audit posture language.

- Persistent CTA: sticky header + mobile bottom CTA bar.

- Developer substance: integration steps + multi-tab code snippets (DNS/Curl/Terraform/GitHub Actions), no hand-holding.

- Dashboard preview (landing UI): active domains, pending verification, rate limits, and explicit domain status badges.

Vance Mercer Review (Wartime CEO Mode)

This landing page hits the core nerve: root keys in prod = catastrophic blast radius. Good. It's not cute; it's a warning + a fix. That's how you sell to DevOps and CTOs.

Now my take—how we make this convert harder:

1. Make "Get API Key" a 10-second win.

   The modal is good. But in production: SSO (GitHub) + magic link should be the default. Developers hate sign-up friction. Your goal is: click → token → copy → done.

2. Add proof of competence, not testimonials.

   Devs don't care about fake logos. They care about status pages, audit semantics, and threat models. Put a "Security" link in the header that goes to:

   - key storage policy (hashing, rotation)

   - delegation threat model (what KeylessSSL can and cannot do)

- incident response + disclosure policy

3. Kill ambiguity around "how it works."

   Add a tiny architecture diagram (even ASCII) showing:

   - CNAME delegation path

   - TXT served behind the target

   - CA query flow

     You already have most of the language. Visualize it and you'll remove the last mental hurdle.

4. One metric that screams reliability.

   Put a small line in hero: "Validation TXT TTL: 60s. Anycast edge." or "p95 validation propagation: Xs" once you have real numbers. Devs buy numbers.

5. Pricing: sharpen the undercut.

   "Cheaper than competitors" is fine. But I'd add a blunt comparison without naming anyone:

   "Most DCV/SSL automation starts at $29–$99/mo. We start at free."

   You want the prospect thinking: why am I paying more for worse security?

Net: this is already a strong dev-first page. If we tighten friction and add hard proof (threat model + reliability metrics), it becomes a conversion weapon.