

Next.js Interview Q&As (Part 3)

(Performance, SEO & Deployment)

Section 1 : Performance Optimization

Q1. How does Next.js improve performance over React?

Answer: Built-in SSR, SSG, ISR reduce load times.

Image & script optimization by default.

Automatic code splitting reduces bundle size.

💡 Tip: Mention Core Web Vitals improvements.

Q2. What is Automatic Code Splitting?

Answer: Each page loads only the JS it needs.

Reduces initial bundle size.

Improves page speed.

💡 Tip: Contrast with React SPA loading everything.

Q3. How does Next.js handle lazy loading?

Answer: Dynamic imports with next/dynamic.

Load components only when needed.

Supports SSR fallback.

💡 Tip: Mention for charts, modals, heavy components.

Q4. How does Next.js optimize images?

Answer: next/image resizes, compresses, and lazy-loads images.

Supports WebP & responsive sizes.

Improves LCP & Core Web Vitals.

💡 Tip: Big SEO advantage over .

Q5. How does Next.js optimize fonts?

Answer: next/font loads Google/local fonts efficiently.

Removes layout shifts (CLS).

Improves performance scores.

💡 Tip: New feature in Next.js 13+.

Q6. How does Next.js handle caching?

Answer: Uses Cache-Control headers for static/SSR pages.

ISR uses background regeneration.

API routes can set custom cache headers.

💡 Tip: Helps balance speed & freshness.

Q7. How to optimize large lists in Next.js?

Answer: Use pagination, infinite scroll, or virtualization.

Avoid fetching huge data sets at once.

💡 Tip: Combine with ISR for performance.

Q8. What is Script Optimization in Next.js?

Answer: `<Script>` component controls script loading.

Options: `beforeInteractive`, `afterInteractive`, `lazyOnload`.

💡 Tip: Use for third-party scripts like analytics.

Q9. How does Next.js handle bundle analysis?

Answer: Enable `@next/bundle-analyzer`.

Shows size of JS bundles.

Helps optimize imports.

💡 Tip: Essential for large apps.

Q10. How do you reduce Next.js build size?

Answer: Tree-shaking, dynamic imports, image compression.

Remove unused npm packages.

Enable ProGuard-like minification.

💡 Tip: Deploy on Vercel for automatic optimizations.

Section 2 : SEO Features

Q11. How does Next.js improve SEO vs React?

Answer: SSR/SSG → HTML ready for crawlers.

Better performance = higher rankings.

Built-in Head management.

💡 Tip: Mention React = CSR → weaker SEO.

Q12. What is the next/head component?

Answer: Controls <title>, meta tags, and favicon.

Works per page.

Improves SEO & social sharing.

💡 Tip: Compare with React Helmet.

Q13. How do you add dynamic meta tags in Next.js?

Answer: Use next/head inside dynamic pages.

Pass props from getServerSideProps or getStaticProps.

💡 Tip: Essential for blogs, products, profiles.

Q14. How does Next.js handle sitemap generation?

Answer: Generate with plugins like next-sitemap.

Creates sitemap.xml and robots.txt.

Improves crawlability.

💡 Tip: Mention for SEO-focused apps.

Q15. How do you implement Open Graph & Twitter meta tags?

Answer: Add <meta property="og:title" ... /> inside <Head>.

Dynamic values come from props.

💡 Tip: Important for link previews.

Q16. What is Structured Data in Next.js?

Answer: JSON-LD added inside <script type="application/ld+json">.

Helps search engines understand content.

💡 Tip: Used for rich snippets in Google.

Q17. How do Core Web Vitals affect SEO in Next.js apps?

Answer: Metrics: LCP, FID/INP, CLS.

Optimized with Next.js image, font, and caching.

💡 Tip: Vercel Analytics can monitor vitals.

Q18. How to handle canonical URLs in Next.js?

Answer: Add <link rel="canonical" href="..." /> in <Head>.

Prevents duplicate content issues.

💡 Tip: Interviewers love SEO-focused details.

Q19. How does ISR impact SEO?

Answer: Keeps static pages fresh without rebuilds.
Search engines always see updated content.

💡 Tip: Best for blogs & e-commerce.

Q20. How do you handle localization (i18n) in Next.js?

Answer: Configure i18n in next.config.js.
Supports multiple locales, domain routing.

💡 Tip: Mention SEO benefits for global apps.

Section 3 : Deployment & CI/CD

Q21. How do you deploy a Next.js app?

Answer: Easiest with Vercel.
Also works on Netlify, AWS, or custom Node server.

💡 Tip: Vercel auto-optimizes builds.

Q22. What is the difference between static export and SSR deploy?

Answer: Static export → next export, no SSR, pure static.
SSR deploy → needs Node.js server or Vercel.

💡 Tip: Use static export for blogs/docs.

Q23. How do you generate a production build?

Answer: Run next build → optimized .next folder.
Serve with next start.

💡 Tip: Always test with production build.

Q24. How do you configure custom domains in Next.js?

Answer: On Vercel → add custom domain.
Or set up reverse proxy on custom servers.

💡 Tip: HTTPS auto-enabled on Vercel.

Q25. How do you add environment variables in deployment?

Answer: Add in .env.local or in hosting platform's dashboard.
Access via process.env.

💡 Tip: Use NEXT_PUBLIC_ for client variables.

Q26. How do you set up CI/CD for Next.js?

Answer: Use GitHub Actions, GitLab CI, or Vercel auto-deploy.
Builds triggered on push/merge.

💡 Tip: Vercel = zero-config CI/CD.

Q27. What is Next.js Image Loader configuration?

Answer: In next.config.js, define external image domains.
Ensures optimized images load from outside hosts.

💡 Tip: Needed for CMS integrations.

Q28. How do you deploy Next.js with Docker?

Answer: Create Dockerfile → build app → run in Node container.
Good for custom cloud setups.

💡 Tip: Use multi-stage builds for smaller images.

Q29. What is the role of next.config.js in deployment?

Answer: Configures images, redirects, rewrites, headers.
Runs at build and runtime.

💡 Tip: Key file for production apps.

Q30. How do you monitor performance in production?

Answer: Use Vercel Analytics, Google Lighthouse, or New Relic.
Track Core Web Vitals, errors, API latency.

💡 Tip: Monitoring = real-world readiness.