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Suppose X is a finite-countable T_1 space. Let
 $\{x\}$ be a one-point set in X , which must be
closed. Let $\mathcal{B} = \{B_\alpha\}$ be a collection of
neighborhoods of x such that every
neighborhood of x contains at least one B_α .

Clearly $\{x\}$ is contained in every B_α . If \mathcal{B} is open,
then some B_α
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Second Edition. Chapter 1. Section 1: Fundamental Concepts; Section 2: Functions; Section 3: Relations; Section 4: The Integers and the Real Numbers; Section 5: Cartesian Products; Section 6: Finite Sets; Section 7: Countable and Uncountable Sets
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If the set X is equipped with the finite complement topology then every subspace of X is compact. Proof. Suppose $\mathcal{A} \subset \mathcal{P}(X)$ and

let \mathcal{A} be an open covering of X Theorem 4. A finite union of compact subspaces of X is compact. Proof. Let $X = \bigcup_{i=1}^n A_i$, ... Solutions to exercises in Munkres Author:
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Section 1: Problem 4 Solution / dbFin

Topology Munkres Solutions Chapter 4 topology is finer than the topology generated by \mathcal{B} . Hence the two topologies are equal, so X has a countable basis. Part (b) The following argument applies equally well to exercise 30.4. Suppose X is a metrizable Lindelöf space. Let $\mathcal{A} = \{B_d(x; 1/n) : x \in X, n \in \mathbb{N}\}$, which is obviously an open covering of X . For each

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Problem 24.4. Solution: If X has only one element, it is trivially a linear continuum, so we will assume X has at least two elements. Let $x, y \in Y$ where $x < y$. Since X is connected, $(-\infty; y)$ and $(x; \infty)$ cannot be a separation of the space. Since the two open sets are clearly non-empty, it must be that they are not disjoint.

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