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## **Urban and Military Defense in Ancient Rome: Infrastructure, Strategy, and Capital Security**

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### **Abstract**

This study examines the military defense system of ancient Rome, focusing on how its cities and military infrastructure evolved from the founding of the Roman Empire in 27 BCE to 284 CE. It highlights the technological innovations and strategic decisions that allowed Rome to maintain imperial dominance. Using historical analysis of significant architectural structures such as the Aurelian Walls, along with the layout of key military sites including barracks and ports in the capital, the research explores how Rome organized its defenses. It also investigates the role of the Tiber River, its bridges, canals, and surrounding facilities in supporting both military operations and economic activities. The study emphasizes the importance of critical military infrastructure, including warehouses, ports, and the extensive road network, which sustained Rome's economy and defense. The findings show that Rome's integrated system of garrisons, fortified structures, and natural features effectively countered external threats and preserved internal security. Key roads, exemplified by the Appian Way, facilitated the rapid movement of troops and supplies, thereby strengthening stability across the empire. Overall, the research demonstrates how Rome's advanced coordination of defense, logistics, and urban planning contributed significantly to the resilience and longevity of the Roman Empire.

**Keywords:** Roman Empire, Rome, Military defence system, Technological choice.

## **Introduction**

The ancient Roman Empire is renowned for its remarkable longevity and extensive territory. Its strength came not just from its powerful military but also from a sophisticated defense network and strategic urban planning. This study examines Rome's military defense infrastructure, with a focus on its capital, from the founding of the Roman Empire in 27 BCE to the 3rd century CE. The research aims to understand how the Romans successfully defended against foreign invasions and safeguarded their citizens by integrating military infrastructure, urban development, technological innovations, and geographic advantages.

## **Literature Review**

The military defense system of ancient Rome was a sophisticated and evolving structure that played a crucial role in maintaining imperial rule, protecting borders, and expanding the empire's territory. This article reviews key research and scholarly works on the topic, providing a detailed analysis of Rome's military strategies, fortifications, and policies.

Accame's *Mirabilia Urbis Romae* (2004) provides a comprehensive analysis of Rome's military and defensive structures from an urban topographical perspective. The book highlights the crucial role of city fortifications, including gates and walls, within the broader defensive system. These barriers, such as the Aurelian Walls, served not only as strategic defenses but also as powerful symbols of Rome's strength and organizational prowess. Filippo further explores the Roman army's dependence on urban fortifications in his *Guide Archeologiche: Roma* (2008), where he connects urban architectural features with military strategy.

Angela, in her book *Le Porte di Roma* (1973), delves more deeply into the importance of these fortifications, examining Rome's gates as key components of its military defense system. Her research highlights how urban planning was shaped by the need to safeguard the city against external threats. The strategic placement of these gates, along with the well-organized arrangement of military outposts, played an essential role

in securing and controlling the city's entrances and exits. Similarly, Tacitus' *Annals* (1931) provides a framework for understanding Rome's military defense system, highlighting the internal political and military conflicts that affected Roman military policy.

Burns' *Barbarians Within the Gates of Rome* (1994) examines Rome's military policies and its dealings with barbarian tribes. The book argues that Rome's defensive strategy relied not only on external fortifications but also on effectively managing and controlling external threats. Burns demonstrates how Rome's military system continually adapted to both barbarian invasions and internal upheavals. This flexibility was key to the Roman Empire's enduring dominance, as it helped maintain internal stability while facing external pressures.

Goodman's *The Roman World, 44 BC – 180 AD* (1997) expands research on Roman military defense by analyzing how the military system fits within the framework of imperial governance. Goodman emphasizes the connection between military actions, fortifications, and settlements along the borders in maintaining Rome's dominance. Fortresses and legions stationed at the empire's frontiers helped the Roman army respond quickly to threats and maintain security. These strategic military efforts were crucial to the empire's stability.

Furthermore, Nippel's *Public Order in Ancient Rome* (1995) examines the complex relationship between Rome's military and political systems. Nippel contends that military force was essential for maintaining public order, emphasizing the army's vital role not just in protecting the empire's borders but also in preserving social stability within the empire. This understanding of the army's internal function is key to grasping the intricate nature of Roman defense strategy.

The military defense system of ancient Rome was a complex and highly adaptable structure. The synergy between fortifications, military strategy, internal order, and intelligence-gathering mechanisms played a crucial role in protecting the empire's security and maintaining its power. The research presented improves our understanding of how the Roman military defense system evolved to address both internal and external threats. These findings highlight the pivotal role of physical defenses and strategic military policies in the Roman Empire's success.

## **Methodology**

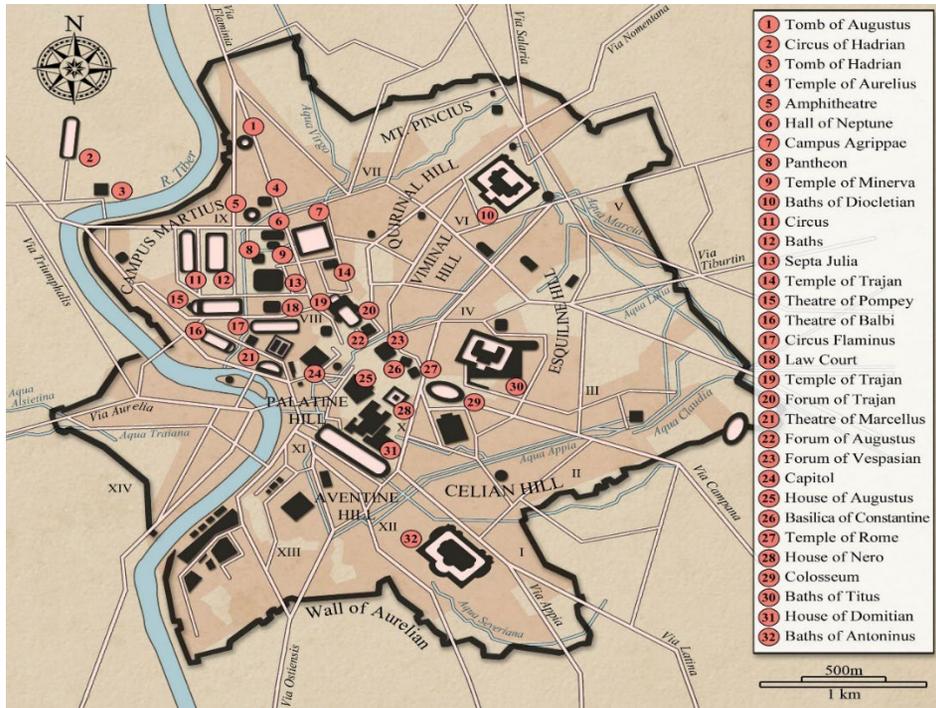
To achieve the objectives outlined above, this study uses an integrated approach that combines historical analysis, architectural examination, and strategic assessment. The research methods include historical analysis, which involves examining ancient Roman documents and records, including works by key figures such as Cicero and Tacitus. This study offers a historical context for understanding the military and defensive strategies employed by the Roman Empire. Additionally, the study will explore how the Roman defense system evolved in response to external threats, such as barbarian invasions, and internal challenges, including political instability and civil unrest.

## **Components of the Capital Defence System**

Throughout its long history, the ancient city of Rome developed a sophisticated defense system. The Roman Empire was under attack from barbarians and weakening during the reign of Lucius Domitius Aurelianus (214–275 CE), who ruled from 270 to 275 CE. As a result, a second Aurelian wall was constructed in 271 C.E. The concrete wall was 18.84 kilometers long and included amenities such as sentry tunnels, towers, crossbow rooms, and public restrooms (Accame, 2004). The wall spanned Pincio Hill and extended east to the People's Square along the left bank of the Tiber until it merged with Achilles' Garden and the wall of the military camp. It then turned southeast before turning northwest, passing through the Petit Eventino spur and the Gaius Cestius early imperial pyramid (Jerome, C, 1940). The wall then crossed northeast to the Tiber, enclosing most of the area on the opposite bank of the river. It then changed direction from northwest to northeast, forming a full circle back to the Tiber's left bank before running along the river to the triumphal arch of Rome. The eighteen gates of the wall were Ostiense, Porto Enser, Aurelius, Settimiana, Triumph, Cornelia, Flaminio, Pincio, Yanlu, Normantum, Closure, Tibur, Praenestina, Asinaria, Metrovia, Latina, Apia, and Aldea, starting from the southwest corner (Accame, 2004). The gates can be divided into three groups based on their shape: (1) double-arched gates with limestone masonry and semi-circular towers on both sides, like Apia, Flaminio, Ostiense, and Porto Enser; (2) single-arch gates with semi-circular towers on both sides, like Asinaria, Ladina, Normantum, Salt

Road, and Tibur; and (3) single-arch gates without towers that were created from aqueduct arches (Jerome, C, 1940).

Ancient Rome city layout map (Wikimedia Commons, 2022)



A strong army protected the city of Rome. Most of Rome's barracks during the Roman Empire were on the east bank of the Tiber (Lewis, M, 1961). The infantry was positioned in the northwest, the cavalry and secret agents were stationed in the southeast, and the prohibited army was located in the northeast (P, the Elder, 2001). Roman fire department battalions could be found throughout the city, while the Roman fleet was stationed on the west bank of the Tiber. The Misenon task force barracks were located near Mount Opio, the foreign barracks were situated on Mount Chelio, and the banned barracks were positioned between Mount Viminal and Mount Osqualino (P, the Elder, 2001). This placement of barracks allowed control over both the eastern road and the capital city. The battalion had its own barracks, armory, and other facilities. To the west of the unit was a training area. The elite cavalry battalion was housed in a large rectangular compound near Tasso Avenue and Chelio Hill, and a newer elite cavalry

unit was located near Latrano (Lewis, M., 1961). On the eastern bank of the Tiber River was a Navalia warship dock. Additionally, Augustus (63 BCE – 14 CE, rule 27 BCE – 14 CE) established fourteen minor stations and seven police and fire brigades across various battalions in Rome (Lewis, M, 1961).

During the imperial era, the riverfront region and the port city can be considered Rome's suburbs. Tiber Island and the west bank of the Tiber River were located in this area. Gianicello Hill served as the region's central point, while the Vatican's current site was its northernmost point (Goodman, M, 1997). Although this district was known as the Fourteenth District of Rome, it remained completely outside the city's holy borders until Aurelian's time and was larger than the urban area within the city walls. King Ancus Marcius ruled ancient Rome. Initially occupying Mount Gianicello (?- 617 B.C.E., ruled 642 B.C.E.-617 B.C.E.), he used it as a defensive wall for the city (Goodman, M, 1997). Rome's need for goods increased significantly due to the city's rapid population growth in the late Republic, which required extensive imports. The city of Ostia, located about 25 kilometers southwest of Rome near the mouth of the Tiber River on the Tyrrhenian coast, was once a military fortress built in the fourth century B.C.E. As the Roman Empire expanded and maritime trade grew, Ostia developed into a distribution center for goods; most of the cargo brought to Rome from abroad was transferred there so it could be moved from sea to river transport (Halicarnassus, D, 1950). During the imperial era, the Mediterranean Sea became a central hub for transportation within the Roman Empire. It remained busy, as during the Republican era, when Claudius, the third emperor of the Empire (10 BCE–54 CE, ruling 41–54 CE), initially expanded Rome's ports (Halicarnassus, D, 1950).

The city of ancient Rome was protected by its port. The new harbor of Portus was built by emperors Claudius, Nero (37–68 CE, who reigned 54–68 CE), and Trajan (53–117 CE, who reigned 98–117 CE). They established a port near Rome during the Empire, and, along with Ostia, it served as the city's gateway to the Mediterranean (Nippel, W, 1995). This port was situated 4 kilometers north of Ostia and 22 kilometers southwest of Rome, located north of the mouth of the Tiber River, facing the Tyrrhenian Sea (Nippel, W, 1995). Portus was on the site of what is now the Italian city of Fiumicino and had a canal connecting it to the Tiber River. An artificial island with about 69 hectares of water area and a

lighthouse built by Emperor Caligula (12-41 CE, who ruled from 37–41 CE) stood in front of the port, which was protected by two breakwaters (Nippel, W, 1995).

The Tiber River surrounded the city of Rome. In Rome, over the Tiber River, at least seven bridges were built during the Republican era. These included the Aemilius Bridge, Sublizuis Bridge, Fabrizio Bridge, Cestio Bridge, Agrippa Bridge, Aelius Bridge, and Aurelius Bridge. Most of these bridges served as shortcuts from the right bank to Caniculum Hill, although many were constructed by Roman emperors to connect with their private estates on the other side (Nippel, W, 1995). Additionally, sky bridges like the Caligula Bridge were built in Rome (Steinby, 2008). Rome's rapid current, narrow valleys, and accumulation of trash along the banks, especially near the port, often caused flooding in certain areas. Augustus dredged the riverbanks early in the empire to reduce this risk. A management board was established for the Tiber and its embankments in the first century C.E. This included canals such as the Apia, Old Aneo, Machio, Tepla, Julio, Virgo, Alessioetina, Claudio, New Aneo, Turazen, and Alexander. These canals supplied water for the city and irrigation, but also served as communication routes, allowing the court to send troops, distribute military supplies, and issue instructions during enemy invasions.

Both the city of Rome and the port of Ostia had many warehouses. The 13th district of Rome was known as the "Warehouse District" due to the elaborate structures, large number, and size of these storage facilities, which demonstrate the scope and importance of the Roman import trade (Cicero, 1999). The shores of the middle part of the Tiber River were filled with warehouses and storage buildings. Rome also built the Loria, Cornelia, Candle, and Anichana warehouses, which became imperial property in the first century C.E., along with warehouses for storing salt, marble, and wine during the Republican period. Additionally, the Vesper warehouses, used for storing papyrus and pepper, were constructed (Neudecke, 2009), which helped reduce street chaos and meet supply needs during conflicts. Most of these warehouses were multi-story, rectangular brick buildings with rooms on either side of open courtyards, some of which were divided into multiple symmetrical courtyards. Since many people needed access, ramps and steps were built. The docks were linked to warehouses around Aventine Hill, supporting Rome's role as a maritime trade hub (Cicero, 1999). The Agrippina and Galba warehouses

were among these port facilities. The Galba warehouse stored a wide range of products, including grain, wine, oil, flour, fish, and marble. During the imperial era, storage facilities were used to store public grain and merchant goods, with the emperor exercising control over them.

Ancient Rome's fortifications were both formidable and carefully designed, capable of defending against a range of internal and external threats. The Aurelian Walls, built in 271 CE, along with their extensive network of gates, watchtowers, and barracks, demonstrated the Romans' strategic foresight in protecting the city from invasion (Cicero, 1999). Combined with an efficient military infrastructure, including fire brigades, a navy, and strategically placed barracks, Rome's defense system allowed quick responses to any threat. Additionally, the development of the ports at Ostia and Portus supported the smooth flow of goods, solidifying Rome's role as a major Mediterranean trading center (Cicero, 1999). The Tiber River further enhanced the city's defenses and transportation, with many bridges and canals supporting both trade and military activities. Warehouses, spread throughout Rome and along its riverbanks, underscored the importance of efficient logistics and storage in sustaining the vast economy of the empire. This advanced network of defenses and infrastructure was crucial in maintaining the Roman Empire's strength and stability.

### **The Construction of the Capitals' Military Defence Systems**

Ancient Rome was surrounded by walls made of tufa stone and concrete. During most of the early Roman Empire, the city had only one main wall: the Servian Wall, built in the 4th century B.C.E. It was named after King Servius Tullius (?–534 B.C.E., reigned 578 B.C.E.–534 B.C.E.) and was constructed along the weakly defended flatlands of northeastern Rome, connecting to the natural defenses of the hills around the Roman square (Cicero, 1999). By the 4th century B.C.E., the wall had been rebuilt and extended; however, its alignment mainly remained similar to the original. It was rebuilt several times over the following years. The original wall was about 10 meters high and 4 meters thick, with a total length of approximately 11 kilometers. It linked the Campidoglio, Quirinale, Viminale, Esquilino, Celio, Palatino, and Aventino, and had a very regular shape, enclosing an area of roughly 4.26 square kilometers. This area included parts of the first, second, third, sixth, twelfth, and thirteenth

districts, as well as all of the fourth, eighth, tenth, and eleventh districts (Cicero, 1999).

The walls were constructed with tuff blocks from the Black Hole quarry and placed at intervals on natural and hand-cut surfaces. One section on the northeast side, between Quirinale Hill, Viminale Hill, and Oschirino Hill, was fortified with earthen walls and trenches (Cicero, 1999; P. the Elder, 2001). A small section on the west side used the Tiber River as a natural barrier. The wall started at the Peak of Axe in the Campidoglio Mountains, then curved toward the War God Plain and, during the early Imperial period, extended to Square Avenue and the Gate of Springs. Besides the forbidden army, which protected the emperor's security up close, there was also a city guard with police powers within the capital. Alaric, king of the Visigoths, launched three attacks on Rome around the start of the fifth century. The Roman Senate responded during the first attack in 408 CE, which was repelled; the second attack in 409 CE, which was also repelled; and the third attack in 410 CE, when Rome fell peacefully after the populace betrayed the city, causing its military defenses to fail and leading to a three-day siege (Burns, 1994).

The Osquilino, Caerimontana, River, and Three City Gates were built during the Augustan era of the Imperial period. The Caerimontana Gate was demolished to make way for the Claudio Canal, and the Capena and Gallieno Gates were also renovated (Rodolfo, L., 2007). The Porta Corina, Porta Viminale Hill, and Porta Caerimontana are some of the gates built on hills (Rodolfo, L., 2007). River gates were constructed near the Tiber River. Troops had to disarm to enter the sacred boundaries of Rome. The ceremonial escort of the emperor and the palace's garrison were responsibilities of three of the nine banned battalions stationed in Rome proper (Tacitus, 1931). During Tiberius's reign (42 BCE–37 CE), nine brigades gathered in the barracks northeast of the city's sacred border (Tacitus, 1931). Claudio built the first stone barracks, where he stationed the banned army under his command.

To strengthen the city's defenses and support, military garrisons were stationed throughout ancient Rome. Rome's Town Guards were consistently housed in the barracks of the forbidden army. To protect the emperor, the elite imperial cavalry guards were stationed outside the city on the opposite bank of the river. They also accompanied emperors into

battle as cavalry. Scouts were often associated with the forbidden army, and the military camp was situated on Mount Cheliot (Speidel, 1994). On this hill, Tulazin also established a foreign military camp (Mommsen, 1863) with a provincial secret service responsible for relaying intelligence between the provincial governor and the emperor, which had previously been stationed at the banned camp. Provincial secret services engaged in political assassinations, internal spying, and other covert operations in the early third century CE (Clauss, 1973; Rankov, 1990). During the fire of 64 CE, Nero constructed the Golden House and expanded the imperial palace from Mount Palatine to the summit of the Esquiline Hill, displacing numerous aristocratic homes in the area (Cicero, 1999). The emperors lived in the same region under the Julio-Claudian (reigned 27 BCE–68 CE) and Flavian (reigned 69 CE–96 CE) dynasties, although each had its own residence, and the palace was not continuously occupied (Cicero, 1999). The Augustan Palace was only built later in Domitian's reign (51–96 CE), marking the start of the 'palace age' and the development of the 'public hall-private house-garden' structure (Cicero, 1999). Until the end of the Roman Empire, the Augustan Palace remained the official residence of the emperor.

Rome's location on a plain between the Tiber River and the Abruzzo Apennines, along with its proximity to the shore, made it easy for the city to access important ports for sea, river, and land transportation. The seven hills that make up the city—Palatino, Campidoglio, Quirinale, Viminal, Celio, Esquiline, and Osvaldo—are located on the eastern bank of the Tiber River (Niels, H, 1986). The Tiber River slows down as it curves around the area that includes Tiber Island, creating ideal conditions for fording and mooring. After the Roman Empire unified the Mediterranean world, this brought great peace (Hannestad, 1986). During this period, Rome gradually expanded beyond its ancient walls. The walls of Servius, built in the 4th century B.C.E., lost their military function and were primarily used as historical monuments, with the gates being monumentalized or utilized as starting points for measuring road distances (Niels, H., 1986).

Additionally, there is a link between Rome's ongoing expansion wars and the building of roads in its cities. For example, the procurator Appius Claudius Crassus Caecus (312 BCE-279 BCE) was responsible for constructing the Appian Way from Rome to Capua during the Second

Samnite War (326–304 BCE), a conflict between the Romans and Samnites over the Campanian Plain. The Roman forces fought with renewed strength after this road was built, which eventually led the Samnites to agree to peace (Niels, H, 1986). As a result, the Appian Way became the model for all other Roman highways. Because Roman roads were built to such high standards and designed by engineers with military training, soldiers and supplies could be transported reliably to their destinations throughout the year. The Via Appia and the Via Latina connected Rome to Southern Italy, while the Via Flaminia, Via Aurelia, Via Cassia, and Via Salaria linked the Roman Empire to Northern Italy. As the political, economic, and cultural center, Rome was connected to all other parts of the empire. The Via Ostiensis and Via Portuensis, which led to the ports of Ostia and Portus, were two shorter roads connecting the city to the Tyrrhenian Sea coast, just southwest of Rome (Niels, H., 1986). In the early Empire, Augustus prioritized road construction as a key state policy, and subsequent emperors also held it in high regard.

Rome was a long-lasting city that grew from its early settlements to include city-states and imperial capitals over several centuries. Its location was logical, considering topography, resource distribution, and transit hubs. The ancient sacred boundary of Rome was limited to the Palatine Hill and was repeatedly expanded during the Republican era. In the pre-imperial period, Vespasianus (9-79 CE, ruled 69-79 CE) and Augustus both extended the sacred perimeters, which were off-limits to military forces (except in triumphal form).

The Romans employed a strategy of forming broad alliances, successively including the Latins, Italians, dependent kingdoms, and provincial peoples in their overseas wars. They used these relationships as tools to protect and promote their own interests. Rome classified the captured cities such as allied, autonomous, free, colonial, and tributary cities, starting in 493 BCE, when it signed a treaty uniting itself with the city-states in the surrounding Latinum region. Rome supported allied cities in defending themselves against attacks without exploiting or forcing them to submit (Niels, H, 1986). Rome managed the foreign policy for independent cities, allowing free cities to station their troops without interference. Roman emperors established colonial cities in frontier provinces to stabilize newly conquered territories and safeguard military bases. The majority of these were tributary cities, which had the least privileges. Romans also built

numerous camp towns that served as bases for legions, creating communities of varying sizes that supplied the legions with products and services. The stability and growth of Roman towns were achieved through top-down efforts and military victories.

Ancient Rome's fortifications, military infrastructure, and strategic urban planning played key roles in both defending and expanding its cities. The Servian Walls, which started in the 4th century BC, marked the beginning of Rome's physical defense system (Rodolfo, L, 2007). Over time, these walls were expanded and strengthened to accommodate a growing population and new threats. Additionally, military garrisons, elite imperial guards, and an extensive intelligence network further enhanced the city's security. The construction of roads, such as the Appian Way, allowed for the quick movement of troops and supplies across the empire. Furthermore, Rome's strategic location, surrounded by natural barriers and located along important trade routes, reinforced its economic and political power (Rodolfo, L., 2007). As the empire's cities grew, the primary purpose of the walls shifted from military protection to symbolic monuments. Ultimately, Rome's well-integrated urban and military systems, along with its strong alliances and infrastructure, ensured its resilience and lasting influence throughout the empire.

## **Conclusion**

Ancient Rome had a highly advanced military defense system, crucial for protecting the empire's security. Since the palaces and surrounding areas of the capital housed the rulers, military defense played a key role in the city's planning, construction, and internal organization, aiming to prevent both coups and foreign invasions. The city also had an extensive armory, serving as a national reserve of weapons in times of emergency. Additionally, the city's warehouses stored essential food and supplies, providing logistical support during wartime. Moreover, this capital, defended by elite troops, served as the center of Roman governance. To protect the city, the capital's army was assigned specific protective duties.

The military defense system around the capital also requires careful analysis. First, the region's geographic features, such as rivers and mountains, can serve as strategic military assets during conflicts. The outcome of defending the capital may depend on how effectively these natural barriers are used. Second, nearby towns serve two important

functions: they act as military fortifications for the capital and as crucial transportation hubs linking the wider nation. During peacetime, these cities help distribute the population and supply resources; during war, they become vital barriers against enemy forces, reducing their strength and preventing direct attacks on the city. Finally, controlling the main roads around the capital is essential, as these routes give enemies direct access from outside.

In a capital city's defense system, the outer defenses are crucial in preventing enemy attacks. Once these outer defenses are breached, the capital faces an immediate and existential threat. Therefore, securing the surrounding outer positions becomes the top priority. These areas provide strategic advantages, a thriving economy, and abundant resources. They are essential parts of the city's defense system, much like stars orbiting a central body. During wartime, castles along potential enemy routes can slow their advance, delay their progress, and drain their forces. Meanwhile, castles in outer regions supply the capital with vital manpower, resources, and financial support.

Understanding the military defense system of ancient Rome is crucial because it highlights the advanced technology and strategic thinking of the ancient Roman civilization. First, the security of the capital city was carefully aligned with its surrounding environment. Second, the city prioritized issues that directly impacted the ruling class. Third, the authorities established specialized institutions and personnel to tackle specific defense challenges, making adjustments as needed. As a result, despite facing numerous threats, Rome managed to maintain long-term stability. Additionally, the city preserved its status as a thriving commercial city-state while incorporating important religious and architectural features. Its urban planning was characterized by openness, with multiple central areas and well-developed public and religious spaces.

In terms of military defense strategy, the city of Rome served not only as a physical barrier but also as a "sacred boundary," symbolizing multiple meanings. Unlike more restrictive city walls, Rome itself often functioned as the boundary, reflecting the expansion of both territory and population across the Roman Empire. This embodiment of territorial growth was part of a broader defense strategy focused on "guarding from all sides." However, due to a lack of an efficient administrative system and the

frequent dispersal of troops beyond the city's sacred boundaries, Rome's military strength was significantly weaker than that of the capital. This inefficiency contributed to the frequent rebellions and regime changes that marked the Roman Empire.

Furthermore, when examining the surrounding defense situation, strategic factors and the geographical needs of the capital were crucial in shaping its defenses. The Roman Empire's decentralized maritime trade system, along with the inland road network and maritime supply routes, secured the capital's material supply. The satellite port system and urban hierarchy further stabilized the distribution of resources and strengthened urban defenses.

In conclusion, the ancient Roman military defense system was the result of careful planning, technological innovation, and strategic foresight. From building the Aurelian Walls to developing an extensive road network, Rome's defensive infrastructure played a crucial role in maintaining control over a large and diverse empire. The integration of military, urban, and logistical systems ensured the empire's stability, demonstrating the Romans' ability to promote economic growth and political power while adapting effectively to new threats. Examining these systems provides valuable insights into the lasting legacy of Roman military engineering and urban planning.

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