

BANDIT LEVEL 0 TO LEVEL 15:

LEVEL 0:

```
root@LAPTOP-87U9CKH8:~# apt list openssh-server
Listing... Done
openssh-server/jammy-updates,jammy-security 1:8.9p1-3ubuntu0.10 amd64
W: There is 1 additional version. Please use the '-a' switch to see it
root@LAPTOP-87U9CKH8:~# ssh bandit0@bandit.labs.overthewire.org -p 2220
```

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

This is an OverTheWire game server.
More information on <http://www.overthewire.org/wargames>

```
bandit0@bandit.labs.overthewire.org's password:
```

LEVEL 0 TO LEVEL 1:

```
bandit0@bandit:~$ ls
readme
bandit0@bandit:~$ cat readme
Congratulations on your first steps into the bandit game!!
Please make sure you have read the rules at https://overthewire.org/rules/
If you are following a course, workshop, walkthrough or other educational activity,
please inform the instructor about the rules as well and encourage them to
contribute to the OverTheWire community so we can keep these games free!

The password you are looking for is: ZjLjTmM6FvvyRnrb2rfNW0Z0Ta6ip5If

bandit0@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
root@LAPTOP-87U9CKH6:~# ssh bandit1@bandit.labs.overthewire.org -p 2220
```

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

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```
bandit1@bandit.labs.overthewire.org's password:
```

LEVEL 1 TO LEVEL 2:

```
bandit1@bandit:~$ ls -a
ls -a: command not found
bandit1@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  .profile
bandit1@bandit:~$ cat ./-
263JGJPfGwU6LdEvqfW1UXPSyac29mfX
bandit1@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
root@LAPTOP-87U9CKH8:~# ssh bandit2@bandit.labs.overthewire.org -p 2220
```

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

This is an OverTheWire game server.
More information on <http://www.overthewire.org/wargames>

```
bandit2@bandit.labs.overthewire.org's password:
```

LEVEL 2 TO LEVEL 3:

```
root@LAPTOP-87U9CKK8: ~  
bandit2@bandit:~$ ls  
spaces in this filename  
bandit2@bandit:~$ cat spaces\ in\ this\ filename  
MNk8KNH3Usioo41PRUEoDFPqfxLPISmx  
bandit2@bandit:~$ exit  
logout  
Connection to bandit.labs.overthewire.org closed.  
root@LAPTOP-87U9CKK8:~# ssh bandit3@bandit.labs.overthewire.org -p 2220  
  
┌───┐ ┌───┐ ┌───┐ ┌───┐ ┌───┐ ┌───┐ ┌───┐ ┌───┐ ┌───┐ ┌───┐  
├───┤ └───┘ └───┘ └───┘ └───┘ └───┘ └───┘ └───┘ └───┘ └───┘  
└───┘ └───┘ └───┘ └───┘ └───┘ └───┘ └───┘ └───┘ └───┘ └───┘  
└───┘ └───┘ └───┘ └───┘ └───┘ └───┘ └───┘ └───┘ └───┘ └───┘  
  
This is an OverTheWire game server.  
More information on http://www.overthewire.org/wargames  
  
bandit3@bandit.labs.overthewire.org's password: |
```

LEVEL 3 TO LEVEL 4:

```
bandit3@bandit:~$ ls
inhere
bandit3@bandit:~$ cd inhere
bandit3@bandit:~/inhere$ ls -la
. . . ..Hiding-From-You
bandit3@bandit:~/inhere$ cat ...Hiding-From-You
2WmrDFRmJIq3IPxneAaMGhap0pFhF3NJ
bandit3@bandit:~/inhere$ exit
logout
Connection to bandit.labs.overthewire.org closed.
root@LAPTOP-87U9CKK8:~# ssh bandit4@bandit.labs.overthewire.org -p 2220
```

The logo consists of a square frame made of vertical bars. Inside the frame, the words "OverTheWire" are written in a stylized font where the letters are formed by horizontal segments of varying lengths.

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More information on <http://www.overthewire.org/wargames>

bandit4@bandit.labs.overthewire.org's password:

LEVEL 4 TO LEVEL 5:


```

bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ ls -a
.          maybehere02  maybehere06  maybehere10  maybehere14  maybehere18
..         maybehere03  maybehere07  maybehere11  maybehere15  maybehere19
maybehere00  maybehere04  maybehere08  maybehere12  maybehere16
maybehere01  maybehere05  maybehere09  maybehere13  maybehere17
bandit5@bandit:~/inhere$ find -type f -size 1033c
./maybehere07/.file2
bandit5@bandit:~/inhere$ cat ./maybehere07/.file2
HWasnPhtq9AVKe0dmk45nxy20cvUa6EG

bandit5@bandit:~/inhere$ exit
logout
Connection to bandit.labs.overthewire.org closed.
root@LAPTOP-87U9CKK8:~# ssh bandit6@bandit.labs.overthewire.org -p 2220

```

LEVEL 6 TO LEVEL 7:

```

bandit6@bandit:~$ ls
bandit6@bandit:~$ ls -a
ls-a: command not found
bandit6@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  .profile
bandit6@bandit:~$ find / -user bandit7 -group bandit6 -size 33c 2>/dev/null
/var/lib/dpkg/info/bandit7.password
bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
morbNTDkSW6jIlUc0ymOdMaLn0LFVAaj
bandit6@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
root@LAPTOP-87U9CKK8:~# ssh bandit7@bandit.labs.overthewire.org -p 2220

```

LEVEL 7 TO LEVEL 8:

```

bandit7@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  data.txt  .profile
bandit7@bandit:~$ awk '/^millionth/ {print $2;}' data.txt
dfwvzFQI4mU0wfNbFOe9RoWskMLg7eEc
bandit7@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
root@LAPTOP-87U9CKK8:~# ssh bandit8@bandit.labs.overthewire.org -p 2220

```

LEVEL 8 TO LEVEL 9:

```

bandit8@bandit:~$ ls -a
.  ..  .bash_logout .bashrc data.txt .profile
bandit8@bandit:~$ cat data.txt | sort | uniq -u
4CKMh1JI91bUIZZPXQdGanaL4xvAg0JM
bandit8@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
root@LAPTOP-87U9CKK8:~# ssh bandit9@bandit.labs.overthewire.org -p 2220

```

LEVEL 9 TO LEVEL 10:

```

bandit9@bandit:~$ ls -a
.  ..  .bash_logout .bashrc data.txt .profile
bandit9@bandit:~$ strings data.txt | grep "="
=aA"f
\al;===== the
PWAf=1
      M),\}=
2Y6=
G';?e=
===== passwordf
===== isc
*=N6
m=</
E=Bty
=sw
"M1=
===== FGUW5illVJrxX9kMYMmlN4MgbpfMiqey
!&-u&4$
*XA=
bandit9@bandit:~$ exxit
exxit: command not found
bandit9@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
root@LAPTOP-87U9CKK8:~# ssh bandit10@bandit.labs.overthewire.org -p 2220

```

LEVEL 10 TO LEVEL 11:

```

bandit10@bandit:~$ ls -a
.  ..  .bash_logout .bashrc data.txt .profile
bandit10@bandit:~$ cat data.txt
VGhLIHBhc3N3b3JkIGlzIGR0UjE3M2ZaS2IwUlJzREZTR3NnMlJXbnBOVmozcvJyCg==
bandit10@bandit:~$ echo VGhLIHBhc3N3b3JkIGlzIGR0UjE3M2ZaS2IwUlJzREZTR3NnMlJXbnBOVmozcvJyCg== | base64 --decode
The password is dtR173fZKb0RRsDFSGsg2RWnpNVj3qRr
bandit10@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
root@LAPTOP-87U9CKK8:~# ssh bandit11@bandit.labs.overthewire.org

```

LEVEL 11 TO LEVEL 12:

```
bandit11@bandit:~$ ls
data.txt
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 7k16JArUVv5LxVuJfsSVdbbtaHG1w9D4
bandit11@bandit:~$ alias rot13='tr a-zA-Z n-za-mN-ZA-M'
bandit11@bandit:~$ cat data.txt | rot13
The password is 7x16WNeHIi5YkIhWsfFIqoognUTyj9Q4
bandit11@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
root@LAPTOP-87U9CKK8:~# ssh bandit12@bandit.labs.overthewire.org -p 2220
```

LEVEL 12 TO LEVEL 13:

```
bandit12@bandit:~$ ls
data.txt
bandit12@bandit:~$ head data.txt
00000000: 1f8b 0808 d2e9 9766 0203 6461 7461 322e .....f..data2.
00000010: 6269 6e00 0141 02be fd42 5a68 3931 4159 bin..A...BZh91AY
00000020: 2653 59ea 2468 ae00 0017 7fff dadb b7fb &SY.$h.....
00000030: dbff 5ffb f3fb d776 3d6f fffb dbea fd9d .....v=0.....
00000040: 85db edfc ffa9 7def faaf efd9 b001 386c .....}.....8l
00000050: 1801 a0d0 6d40 01a0 0006 0006 0000 ....m0.....
00000060: 0000 d034 01a1 a34d 0034 3d43 40d0 0d34 ...4...M.4=C0..4
00000070: d034 34da 0ea1 b49e a7a8 f29e 5106 4326 .44.....0.C6
00000080: 9a19 1934 d1a0 341a 6234 d018 d468 6834 ...4..4.b4...hh4
00000090: 00c9 a308 6434 0000 0308 d068 0600 1900 ...d4....h....
bandit12@bandit:~$ mkdir /tmp/random_dir
mkdir: cannot create directory '/tmp/random_dir': File exists
bandit12@bandit:~$ cd /tmp/random_dir
bandit12@bandit:/tmp/random_dir$ cp ~/data.txt .
bandit12@bandit:/tmp/random_dir$ ls
binary data data.txt
bandit12@bandit:/tmp/random_dir$ mv data.txt data
bandit12@bandit:/tmp/random_dir$ ls
binary data
bandit12@bandit:/tmp/random_dir$ xxd -r data > binary
bandit12@bandit:/tmp/random_dir$ ls
binary data
bandit12@bandit:/tmp/random_dir$ file binary
binary: gzip compressed data, was "data2.bin", last modified: Wed Jul 17 15:57:06 2024, max compression, from Unix, original size modulo 2^32 577
bandit12@bandit:/tmp/random_dir$ mv binary binary.gz
bandit12@bandit:/tmp/random_dir$ gunzip binary.gz
bandit12@bandit:/tmp/random_dir$ ls
binary data
bandit12@bandit:/tmp/random_dir$ file binary
binary: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/random_dir$ bunzip2 binary
bunzip2: Can't guess original name for binary -- using binary.out
bandit12@bandit:/tmp/random_dir$ ls
binary.out data
bandit12@bandit:/tmp/random_dir$ file binary.out
binary.out: gzip compressed data, was "data4.bin", last modified: Wed Jul 17 15:57:06 2024, max compression, from Unix, original size modulo 2^32 20480
```

```
bandit12@bandit:/tmp/random_dir$ mv binary.out binary.gz
bandit12@bandit:/tmp/random_dir$ gunzip binary.gz
bandit12@bandit:/tmp/random_dir$ ls
binary data
bandit12@bandit:/tmp/random_dir$ file binary
binary: POSIX tar archive (GNU)
bandit12@bandit:/tmp/random_dir$ tar -xf binary
bandit12@bandit:/tmp/random_dir$ ls
binary data data5.bin
bandit12@bandit:/tmp/random_dir$ rm binary data
bandit12@bandit:/tmp/random_dir$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/random_dir$ tar -xf data5.bin
bandit12@bandit:/tmp/random_dir$ ls
data5.bin data6.bin
bandit12@bandit:/tmp/random_dir$ rm data5.bin
bandit12@bandit:/tmp/random_dir$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/random_dir$ bunzip2 data6.bin
bunzip2: Can't guess original name for data6.bin -- using data6.bin.out
bandit12@bandit:/tmp/random_dir$ ls
data6.bin.out
bandit12@bandit:/tmp/random_dir$ file data6.bin.out
data6.bin.out: POSIX tar archive (GNU)
bandit12@bandit:/tmp/random_dir$ tar -xf data6.bin.out
bandit12@bandit:/tmp/random_dir$ ls
data6.bin.out data8.bin
bandit12@bandit:/tmp/random_dir$ rm data6.bin.out
bandit12@bandit:/tmp/random_dir$ file data8.bin
data8.bin: gzip compressed data, was "data9.bin", last modified: Wed Jul 17 15:57:06 2024, max compression, from Unix, original size modulo 2^32 49
bandit12@bandit:/tmp/random_dir$ mv data8.bin data8.gz
bandit12@bandit:/tmp/random_dir$ gunzip data8.gz
bandit12@bandit:/tmp/random_dir$ ls
data8
bandit12@bandit:/tmp/random_dir$ file data8
data8: ASCII text
bandit12@bandit:/tmp/random_dir$ cat data8
The password is F05dwFsc0cbaIiH0h8J2eUks2vdTDwAn
```

LEVEL 13 TO LEVEL 14:

```
bandit13@bandit:~$ ls
sshkey.private
```

```
bandit13@bandit:~$ ssh -i sshkey.private -p 2220 bandit14@localhost
The authenticity of host '[localhost]:2220 ([127.0.0.1]:2220)' can't be established.
ED25519 key fingerprint is SHA256:C2ihUBV7ihNV1wUXRb4RrEcLFXC5CXlhmAAM/urERLY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Could not create directory '/home/bandit13/.ssh' (Permission denied).
Failed to add the host to the list of known hosts (/home/bandit13/.ssh/known_hosts).
```

```

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  /   \   \   ,   |   |   \   \   \

```

This is an OverTheWire game server.
More information on <http://www.overthewire.org/wargames>

!!! You are trying to log into this SSH server with a password on port 2220 from localhost.
!!! Connecting from localhost is blocked to conserve resources.
!!! Please log out and log in again.

```
!!! You are trying to log into this SSH server with a password on port 2220 from localhost.
!!! Connecting from localhost is blocked to conserve resources.
!!! Please log out and log in again.
```

```
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
MU4VWeTyJk8R0of1qqmcBPALh7LDcPvS
bandit14@bandit:~$ exit
logout
Connection to localhost closed.
bandit13@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
root@LAPTOP-87U9CKK8:~# ssh bandit14@bandit.labs.overthewire.org -p 2220
```

[illegible]

bandit14@bandit.labs.overthewire.org's password:

LEVEL 14 TO LEVEL 15:

[illegible]

bandit15@bandit.labs.overthewire.org's password:

LEVEL 15 TO LEVEL 16:


```
bandit15@bandit:~$ cat /etc/bandit_pass/bandit15
8xCjnmgoKbGLhHFAZlGE5Tmu4M2tKJQo
bandit15@bandit:~$ openssl s_client -connect localhost:30001
CONNECTED(00000003)
Can't use SSL_get_servername
depth=0 CN = SnakeOil
verify error:num=18:self-signed certificate
verify return:1
depth=0 CN = SnakeOil
verify return:1
---
Certificate chain
 0 s:CN = SnakeOil
  i:CN = SnakeOil
   a:KEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA256
   v:NotBefore: Jun 10 03:59:50 2024 GMT; NotAfter: Jun  8 03:59:50 2034 GMT
---
Server certificate
-----BEGIN CERTIFICATE-----
MIIFBzCCAu+gAwIBAgIUBLz7DBxA0IfojaL/WaJzE6Sbz7cwDQYJKoZIhvcNAQEL
BQAwEzERMA8GA1UEAwwIU25ha2VPaWwwHhcNMjQwNjEwMDM1OTUwWWhcNMzQwNjA4
MDM1OTUwWjATMREwDwYDVQQDDAhTbmFrZU9pbDCCAiIwDQYJKoZIhvcNAQEBBQAD
ggIPADCCAggCggIBANI+P5QXm9Bj21FIPsQqbqZRb5XmSZZJYaam7EIJ16Fxedf+
jXAv4d/FVqiEM4BuSNsNMeBMx2Gq0LAfN33h+RMTjRoMb8yBsZsC063MLfXCk4p+
09gtGP7BS6Iy5XdmfY/fPHvA3JDEScdLDDmd6Lsbdwhv93Q8M6POV09sv4HuS4t/
jEjr+NhE+Bjr/wDbyg7GL71BP1WPZpQnRE40zoSrt5+bZVLvODWUFWinB0fLaGRk
GmI0r5EU0Ud7HpYyoIQbiNlePGfPpHRKnmdXTTEZEoxeWWAaM1VhPGqfrB/Pnca+
vAJX7iB0b3kHinfV0SscsG/YAUR94wSELeY+UleWJaELVUntrJ5HeRDiTChiVQ++
wnnjNbepaW6shopybUF3XXfhIb4NvwLWpvoKFXVtcVjLOujF0snVvpE+MRT0wacy
tHtjZs7Ao7GYxDz6H8AdBLKJW67uQon37a4MI260ADFMS+2vEAbNSFP+f6ii5mrB
18cY64ZaF6oU8bjGK7BArDx56bRc3WFyubIGWAFHEuB948BcshXY7baf5jjzPmgz
mq1zdRthQB31MOM2ii6vuTkheAvKfFf+llH4M9SnES4NSF2hj9NnHga9V08wfhYc
x0W6qu+S8HudVF+V23yTvUNgz4Q+UoGs4sHSDEsIBFqNvInnpUmtNgcR2L5PAgMB
AAGjUzBRMB0GA1UdDgQWBbTPo8kfze4P9EgxNuyk7+xDGfAYzAfBgNVHSMEGDAW
gBTPo8kfze4P9EgxNuyk7+xDGfAYzAPBgNVHRMBAf8EBTADAQH/MA0GCSqGSIb3
DQEBcwUAA4ICAQAKHomtmcGqyiLnhziLe97Mq2+Su15QgYVwfx/KY0Xxv2T8ZmcR
Ae9XFhZT4jsA0UDK10Xx9aZgDGJHJLNEVTe9zWv10NFfNxEBxQgP7hhmDBWdtj6d
taqEW/Jp06X+08BtnYK9NZsvDg2YRcv0HConeMjwvEL7tQK0m+GVyQfLYg6jnrhx
egH+abucTKxabFcWSE+Vk0uJYMqcbXvB4Wnkz9vj4V5Hn7/DN4xIjFko+nREw60a
/AUFjNnO/FPjap+d68H1LdzMH3PSs+yjGid+6Zx9FCnt9qZydW13Miqg3nDnODXw
+Z682mQFjVLGPCA5Z0QbyMKY4tNazG2n8qy2famQT3+jF8Lb6a4NGbnpeWnLMkIu
jWLWIKa9MlbdNXuajiPNVYyIK9gdoBzbfaKwo0fSsLxEqlf8rio1GGcEV5Hlz5S2
txwI0xdw9MWeGwoiLbZSbRJH4TIBFFtoBG0LoEJi0C+UPwS8CDngJB4TyrZqELd3
rH87W+Et1t/Nepoc/Eoaux9PFp5VPXP+qwQGmhir/hv70sgBhrkYuhkjsxZ8+1uk7
tUWC/XM0mpLoxsq6vVL3AJaJelivdA9xLytsuG4iv02Juc593HXYR8y0pow0Eq2T
U5EyuFg5RXYwAPi7ykw1PW7zAPL4MlonEVz+QX0Sx6eyhimp1VZC11SCg==
-----END CERTIFICATE-----
subject=CN = SnakeOil
issuer=CN = SnakeOil
---
No client certificate CA names sent
Peer signing digest: SHA256
```

```
00a0 - 36 e5 e1 75 51 9b d6 38-dc 3e c3 12 ea 23 70 ad 6..uQ..8.>...#p.
00b0 - 24 d1 2b 7e 7b 21 ad 99-ad 97 fc 73 3c 3b 65 8f $.+~{!.....s<;e.
00c0 - a7 fa ad 2b 76 5a b5 73-72 f1 6d 94 36 d1 81 9d ...+vZ.sr.m.6...
00d0 - 9e fe 9e 82 77 77 c2 b1-aa a4 9d 10 5b df f4 83 ....ww.....[...

Start Time: 1726385375
Timeout : 7200 (sec)
Verify return code: 18 (self-signed certificate)
Extended master secret: no
Max Early Data: 0

---
read R BLOCK
---
Post-Handshake New Session Ticket arrived:
SSL-Session:
    Protocol : TLSv1.3
    Cipher : TLS_AES_256_GCM_SHA384
    Session-ID: 6A7AB01653F14E95B9E5B636CB103F9CC3D7CFF0B2C67DDC2EA2D0D0B2F55F00
    Session-ID-ctx:
    Resumption PSK: 4D5F3F2DF578CAC9309F600A0A6B65EF972343CB8ED0B76CF3B3A40CF5FA2FE3D361C019880F04E4E9D7DBDC803C1967
    PSK identity: None
    PSK identity hint: None
    SRP username: None
    TLS session ticket lifetime hint: 300 (seconds)
    TLS session ticket:
0000 - 1f 2c f9 9a 0e ef 39 c8-f3 65 b0 67 b9 ef 50 8e ..,...9..e.g..P.
0010 - 7f c5 e1 38 8e a1 a1 f4-99 a2 95 85 db d6 4d 65 ...8.....Me
0020 - 42 98 d4 03 4e e0 46 92-11 18 59 8d e3 78 3c 0d B...N.F...Y..x<.
0030 - 7c de dc fa 90 6b 19 80-35 6f b3 3e d8 71 7f ff |....k...5o.>.q..
0040 - 82 29 b4 2e cb 96 7e 59-6b ff 42 b8 a3 ae 22 f3 .)....~Yk.B..."
0050 - 13 6c 01 80 32 73 29 0f-b4 c0 25 a4 83 88 3f a1 .l...2s)...%...?.
0060 - 5c 59 5c 79 ac 28 94 bd-f5 e4 ff b6 3b 0a f3 e6 \\Y\y.(.....;...
0070 - 07 86 a1 8f 66 e0 3f 12-12 5e 48 5b 67 2b cf 45 ....f.?..^H[g+.E
0080 - 50 f8 4d c0 29 2b cf da-1c fa a8 04 d5 49 ca 4e P.M.)+.....I.N
0090 - 8f 8f 12 8c bc 01 e0 8a-b7 aa 95 d2 a5 5b 4a 46 .....[JF
00a0 - bc b4 40 10 6a 54 b5 f3-16 cd 9f 20 b5 9c 83 19 ..@.jT.....
00b0 - 76 d9 e7 da d0 ca 95 fc-8d 1c 98 e6 76 2b 7f 9c v.....v+...
00c0 - d1 ba 3e 38 eb 03 a3 2f-54 8a 56 a2 1a 1c 3b cc ..>8.../T.V...;.
00d0 - 74 c3 a0 c3 64 da 91 e3-2f 41 16 58 04 70 33 a8 t...d.../A.X.p3.

Start Time: 1726385375
Timeout : 7200 (sec)
Verify return code: 18 (self-signed certificate)
Extended master secret: no
Max Early Data: 0

---
read R BLOCK
8xCjnmgoKbGLhHFAZlGE5Tmu4M2tKJQo
Correct!
kSkvUpMQ7lBYyCM4GBPvCvTlBfWRy0Dx

closed
```