**Attack Types**

|  |  |  |
| --- | --- | --- |
| **S/N** | **Name** | **Type** |
|  | Back | dos |
|  | buffer\_overflow | u2r |
|  | ftp\_write | r2l |
|  | guess\_passwd | r2l |
|  | imap | r2l |
|  | ipsweep | probe |
|  | land | dos |
|  | loadmodule | u2r |
|  | multihop | r2l |
|  | neptune | dos |
|  | nmap | probe |
|  | perl | u2r |
|  | phf | r2l |
|  | pod | dos |
|  | portsweep | probe |
|  | rootkit | u2r |
|  | satan | probe |
|  | smurf | dos |
|  | spy | r2l |
|  | teardrop | dos |
|  | warezclient | r2l |
|  | warezmaster | r2l |

**Field Names**

1. duration: continuous.
2. protocol\_type: symbolic.
3. service: symbolic.
4. flag: symbolic.
5. src\_bytes: continuous.
6. dst\_bytes: continuous.
7. land: symbolic.
8. wrong\_fragment: continuous.
9. urgent: continuous.
10. hot: continuous.
11. num\_failed\_logins: continuous.
12. logged\_in: symbolic.
13. num\_compromised: continuous.
14. root\_shell: continuous.
15. su\_attempted: continuous.
16. num\_root: continuous.
17. num\_file\_creations: continuous.
18. num\_shells: continuous.
19. num\_access\_files: continuous.
20. num\_outbound\_cmds: continuous.
21. is\_host\_login: symbolic.
22. is\_guest\_login: symbolic.
23. count: continuous.
24. srv\_count: continuous.
25. serror\_rate: continuous.
26. srv\_serror\_rate: continuous.
27. rerror\_rate: continuous.
28. srv\_rerror\_rate: continuous.
29. same\_srv\_rate: continuous.
30. diff\_srv\_rate: continuous.
31. srv\_diff\_host\_rate: continuous.
32. dst\_host\_count: continuous.
33. dst\_host\_srv\_count: continuous.
34. dst\_host\_same\_srv\_rate: continuous.
35. dst\_host\_diff\_srv\_rate: continuous.
36. dst\_host\_same\_src\_port\_rate: continuous.
37. dst\_host\_srv\_diff\_host\_rate: continuous.
38. dst\_host\_serror\_rate: continuous.
39. dst\_host\_srv\_serror\_rate: continuous.
40. dst\_host\_rerror\_rate: continuous.
41. dst\_host\_srv\_rerror\_rate: continuous.